HP9000 SERIES 300/400

SOFTWARE STATUS BULLETIN

(SSB)

HEWLETT PACKARD

Information is current as of 11/21/90

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PREFACE

The **SSB*** lists all known problems in the software product line designated on the cover page. These problems are derived from service requests (SRs) submitted by user's of these products.

There are four separate **SSB** reports contained in this edition. They are separated by a color divider page. Included are:

> Section 1 – General S300/and S400 operating system, Databases, Networking and Languages
>
> Section 2 – AdvMail & OpenMail
>
> Section 3 – X10 and X11 products
>
> Section 4 – S300 SRM and related products

All reports have the same organization and consist of five parts as listed below. Each report provides four different methods whereby the known problems can be indexed. The detailed SR reports are listed in part 5. The detailed SR report page numbers are located in the upper right hand corner of each column (printed two per page).

1   Software Release Contents (pg I1–I2)

This section *lists the product names, numbers and update/fix levels for all the products* contained in this release. Products that have changed, or are new, are denoted with an asterisk preceding the product name.

2   Product Index (pg I3)

The product index provides the page number on which *detailed SR reports related to a specific product* can be found.

3   KPR Number Index (pg I4–I8)

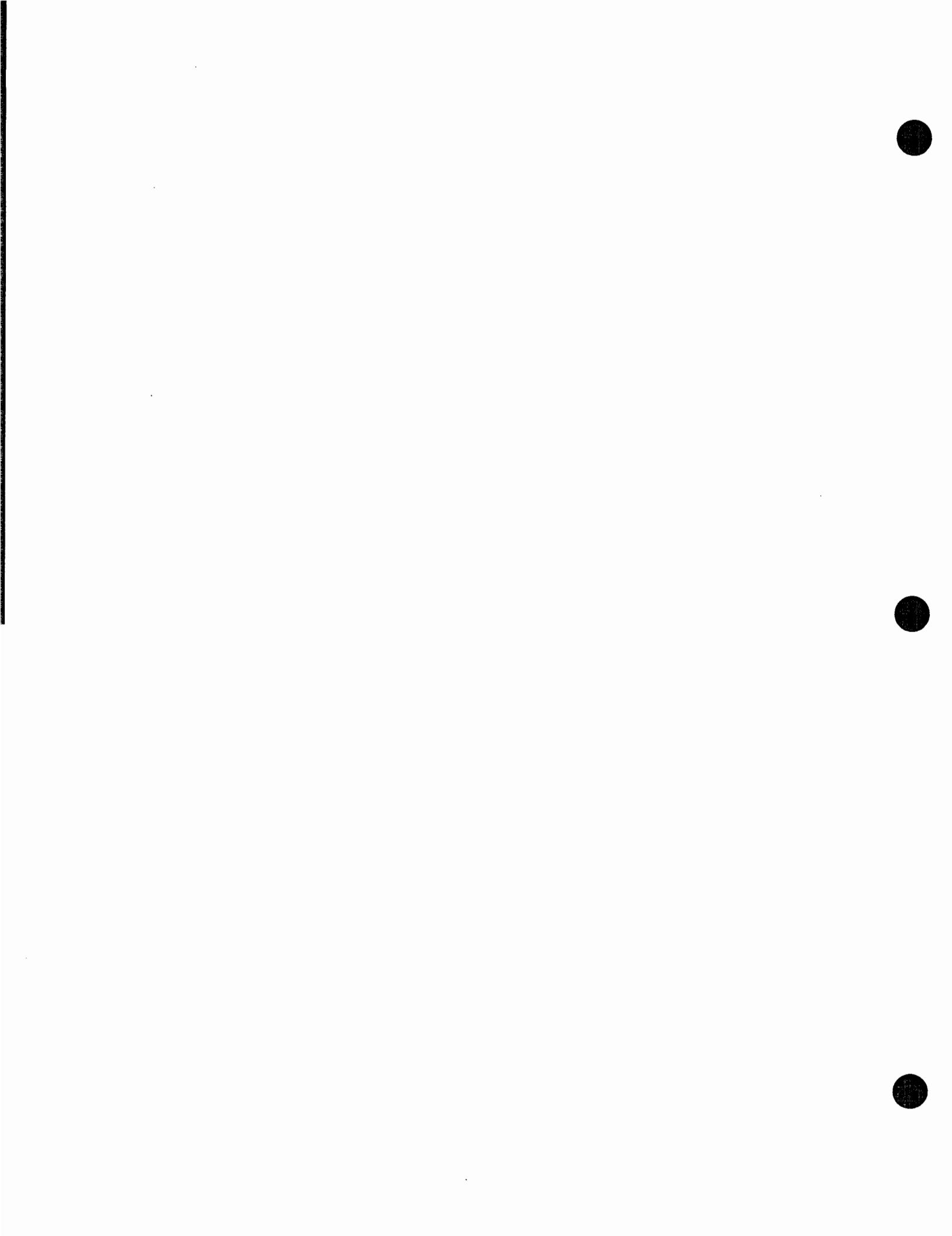This index is a *sequential list of individual SR numbers* and the page on which they are found.

4   Product–Keyword (pg I9–I28)

This index is a *Product–Keyword* sort of SRs. Each entry has a *one line description* of the SR and gives the page on which it is found. Keywords are optional.

5   Detailed SR Reports (pg 1–363)

Each report contains *all available information* relevant to the problem.

Product name	Product number	uu.ff	prev
3179G DISP. STATION	B1001A	07.00	00.00
3778 GATEWAY	98858A	03.00	00.00
3778 GATEWAY UPGRADE	98859A	03.00	00.00
5080 - USER UPGRADE	98856A	03.00	00.00
5080 EMULATOR	98855A	03.00	00.00
5080 GATEWAY UPGRADE	98857A	03.00	00.00
ADA BINDINGS COMMON	ADA-BINDA	00.00	00.00
ADA DS. - 9000/300	98860	04.35	03.25
ADA DS. - COMMON	ADA-DSA	04.35	03.25
ADA SOFTBENCH COMMON	ADA-SBA	00.00	00.00
ADA/300 BINDINGS	98889A	00.00	00.00
ADA/SOFTBENCH 300	92669A	00.00	00.00
AGP/DGL - MU	98600B	07.00	00.00
AXE 16 USER	98595B	07.03	00.00
AXE 16 USER	98595C	07.03	00.00
AXE 2 USER	98515B	07.03	00.00
COBOL/HP-UX S300	35322B	02.00	01.05
COMMON LISP DEVELMNT	HP98678A	02.10	00.00
COMMON LISP EXCUTION	HP98679A	02.10	00.00
COMMON LISP II DE	98688	02.10	00.00
DESIG. JAPANESE FONT	98864A	02.00	00.00
DGL SKELETON	98683X	07.00	00.00
DISPLAY LIST	98674B	07.03	00.00
DISPLAY LIST	98674C	07.03	07.00
DOS COPROCESSOR SFTW	98531A	02.10	00.00
HP PROLOG 1.0	79232U	01.01	00.00
HP SQL/300	79725A	70.00	02.00
HPC++ COMMON	HPCPLUSPLUSA	02.00	00.00
HPC++ S300	B1691A	02.00	00.00
HPUX 6.2 SW BUNDLE	98594A	07.03	00.00
HPUX 7.03 S/W BUNDLE	98594B	07.03	00.00
JAPANESE NL I/O	98861A	07.00	06.10
KOREAN NL I/O	98609A	07.00	06.10
LAN LINK 9000/300	98171A	00.00	00.00
OV NM SERVER 300 DEV	36985A	01.00	00.00
OV NM SERVER 300 RUN	36990A	01.00	00.00
PERSONAL VISUALIZER	B1760A	07.00	00.00
PERSONAL VISUALIZER	B1760B	07.03	00.00
PHIGS DEV. ENVIRON.	B1759A	02.00	00.00
PHIGS RUN TIME ENV.	B1685A	02.00	00.00
PROG. ENVIRON. - MU	98597C	06.50	00.00
RJE/300	31447A	06.00	05.03
RJE/300	50967A	01.00	00.00
S300 GENERAL HPUX	98680B	06.05	00.00
SERIES 300 GKS	98672B	07.03	00.00
SERIES 300 GKS	98672C	07.03	00.00
SIMP-CHINESE NL I/O	98851A	07.00	06.10
SIMPLEX KOREAN FONT	98610A	02.00	00.00
SIMPLEX T-CHINESE	98854A	02.00	00.00
SIMPLX JAPANESE FONT	98591A	02.00	00.00
SNA LU 6.2 300	98162A	00.00	00.00
SNA3270 300	36590A	03.20	00.00
SNA3270 300	36591A	03.20	00.00
SNA3270 300	36978A	00.00	00.00
SNA3270 300	36979A	00.00	00.00

Product name	Product number	uu.ff	prev
SNA3770 300	36976A	07.01	00.00
SNA3770 300	98184A	01.10	00.00
SNA3770 300	98188A	01.10	00.00
SNALINK 300	36592A	03.21	03.20
SNALINK 300/GW	36593A	03.21	03.20
SOFT PC FOR 9000/300	98870A	01.30	00.00
SOFT PC FOR 9000/300	98870B	02.01	00.00
SOFT PC FOR 9000/300	98870C	02.03	02.01
STARBASE RAD & RAY	98885A	01.01	00.00
STARBASE RAD & RAY	98885B	02.00	01.00
TRAD-CHINESE NL I/O	98853A	07.00	06.10
VERSATEC	98053A	05.20	00.00
VISUAL EDITOR	B1500A	01.00	00.00
X.25/300 LINK	36941A	07.00	02.00
X.400 SERV SOFTWARE	32058A	00.00	00.00

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ADA DS. - COMMON	ADA-DSA	11/21/90	21
ADA SOFTBENCH COMMON	ADA-SBA	11/21/90	74
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COBOL/HP-UX S300	35322B	11/21/90	78
COMMON LISP DEVELMNT	HP98678A	11/21/90	80
COMMON LISP EXCUTION	HP98679A	11/21/90	122
DOS COPROCESSOR SFTW	98531A	11/21/90	123
HP PROLOG 1.0	79232U	11/21/90	127
HP SQL/300	79725A	11/21/90	128
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RJE/300	50967A	11/21/90	235
S300 GENERAL HPUX	98680B	11/21/90	237
SERIES 300 GKS	98672B	11/21/90	304
SNA3270 300	36590A	11/21/90	305
SNA3270 300	36591A	11/21/90	307
SNA3770 300	98184A	11/21/90	309
SNA3770 300	98188A	11/21/90	310
SNALINK 300	36592A	11/21/90	311
SNALINK 300/GW	36593A	11/21/90	314
SOFT PC FOR 9000/300	98870A	11/21/90	318
SOFT PC FOR 9000/300	98870B	11/21/90	340
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1650041749	122	4000033498	85	4000034140	103	4000056465	23
1650042044	127	4000033506	85	4000034157	104	4000056556	6
1650043760	307	4000033514	85	4000034165	104	4000057836	6
1650050294	239	4000033522	86	4000034173	104	4000057919	23
1650057828	239	4000033530	86	4000034181	105	4000058446	123
1650059014	128	4000033548	87	4000034199	105	4000070896	23
1650063933	304	4000033555	87	4000034207	106	4000070938	7
1650070474	240	4000033563	88	4000034215	106	4000071258	24
1650074385	240	4000033571	88	4000034223	106	4000071357	24
1650076091	240	4000033589	89	4000034231	107	4000071423	25
1650076422	241	4000033597	89	4000034249	107	4000071431	25
1650082529	241	4000033605	89	4000034256	107	4000072603	25
1650085514	242	4000033613	90	4000034264	108	4000078683	124
1650086041	304	4000033621	90	4000034272	108	4000082677	25
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1650090753	243	4000033647	91	4000034298	109	4000082792	26
1650091587	309	4000033654	91	4000034306	109	4000082909	27
1650093328	243	4000033662	92	4000034314	110	4000082925	8
1650093351	243	4000033670	92	4000034322	110	4000084970	235
1650100172	244	4000033688	92	4000034330	110	4000089011	28
1650100230	244	4000033696	93	4000034348	110	4000089037	28
1650101147	245	4000033704	93	4000034355	111	4000089151	28
1650101246	246	4000033712	93	4000034363	111	4000089268	28
1650102194	246	4000033720	94	4000034371	112	4000089466	29
1650107045	310	4000033902	94	4000034389	112	4000089789	29
1650119883	123	4000033910	94	4000034397	112	4000089797	29
1650130989	246	4000033928	95	4000034405	113	4000089870	29
1650134353	247	4000033936	95	4000034413	113	4000089953	30
1650139675	21	4000033944	95	4000034421	114	4000089979	30
4000003756	247	4000033951	96	4000034439	114	4000090860	223
4000003830	248	4000033969	96	4000034447	114	4000091660	318
4000017020	249	4000033977	96	4000034454	114	4000091678	318
4000019570	249	4000033985	97	4000034462	115	4000091702	223
4000023648	1	4000033993	97	4000034538	115	4000091728	318
4000027565	235	4000034009	97	4000034710	116	4000091736	319
4000033357	80	4000034017	98	4000034744	116	4000091926	319
4000033373	80	4000034025	99	4000035634	21	4000091934	320
4000033381	80	4000034033	99	4000036616	117	4000091983	320
4000033399	81	4000034041	100	4000040410	5	4000091991	320
4000033407	81	4000034058	100	4000046110	118	4000092015	321
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4000033423	82	4000034074	101	4000046433	118	4000092049	322
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4000093757	328	4000096487	250	4700740589	135	4700822494	45
4000093765	328	4000097113	360	4700743401	135	4700822510	45
4000093781	329	4000097121	360	4700747246	136	4700822528	46
4000094060	250	4000097139	360	4700748368	136	4700822866	46
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4700855932	146	4700883306	157	4700893081	194	4700906339	204
4700857698	60	4700883322	157	4700893099	194	4700906347	204
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4700866475	62	4700886796	159	4700893610	198	4700908517	205
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4700868893	15	4700887851	340	4700893651	198	4700908533	206
4700869537	149	4700887976	185	4700894113	199	4700908541	206
4700875286	63	4700888925	186	4700894121	199	4700908558	206
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4700878447	152	4700890947	74	4700896944	161	4700911818	340
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4700921700	340	4700922278	350	4700923334	169	5000184275	263
4700921718	341	4700922286	350	4700923342	170	5000192682	263
4700921726	341	4700922294	351	4700923367	170	5000193656	120
4700921734	341	4700922310	351	4700926865	171	5000195735	77
4700921742	341	4700922328	351	4700927459	209	5000198770	264
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4700921809	343	4700922385	352	4700929687	172	5000225904	267
4700921825	343	4700922393	352	4700931188	210	5000228635	267
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4700921866	343	4700922427	352	4700931642	211	5000236984	269
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4700921908	344	4700922468	353	4700933580	219	5000272898	121
4700921916	344	4700922476	353	4700933598	219	5000280461	270
4700921965	345	4700922484	353	4700933606	222	5000286476	270
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4700921981	345	4700922500	354	4700934240	212	5000296855	3
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********none********					
AWK	97089-XXXXX	4000098858	2	00.00	Subject: bug in wc documentation
	97089-XXXXX	4700868216	2	00.00	How to configure the 2nd serial I/O port for the 808/815 isn't documentd
DOCUMENTATION	97089-XXXXX	4000023648	1	00.00	Errors in awk documentation.
	97089-XXXXX	5000296855	3	00.00	Periph Inst Gde, give switch setting for 98550A when 98556A is added.

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Keyword	Product number	KPR number	page	uu.ff	Description
********none********					
	B1001A	4700916841	4	07.00	Programmed Symbols and Image Symbols display wrong on HP700/X terminal.
	B1001A	4700916833	4	01.01	Sense code 08710000 and a negative response are returned at logon time.

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Keyword	Product number	KPR number	page	uu.ff	Description
********none********					
	98860	4700822031	8	04.35	Object value corrupted by assignment of array with certain lower bound
	98860	4700827220	9	04.35	Abort never occurs without task reaching sync. point
	98860	4700839746	10	04.35	PROGRAM_ERROR may occur when lib pkg has record w/ dyn array components
	98860	4700842864	11	04.35	Unhandled exception in main subprogram incorrectly kills library tasks
	98860	4700843680	12	04.35	Incorrect aggregate for packed array of a subtype of Boolean
	98860	4700852830	13	04.35	The result of fixed point division is rounded down.
	98860	4700863688	15	04.35	UNIX_ENV not in predefined library as documented.
	98860	4700868893	15	04.35	File name expansion works incorrectly if working directory is /
	98860	4700882399	16	04.35	Incorrect slice assignment when target & source are ref by same pointer
	98860	4700883074	18	04.35	FLU tools misbehave when arguments are 81 characters or longer.
	98860	4700862961	14	04.34	Ada.Make utility does not work on Ada/300 release 4.35
	98860	4000040410	5	03.00	Constant folding should raise NUMERIC_ERROR but raises CONSTRAINT_ERROR
	98860	4000047415	5	03.00	Unhandled exceptions in a task may fail to produce a traceback.
	98860	4000070938	7	03.00	Poor error message when a subprogram does not conform with its spec
ADA	98860	4000056556	8	03.00	The MACHINE_ROUNDS attribute is wrong for fixed point types
	98860	4000057836	6	03.00	'ADDRESS returns bad value if applied to program unit not yet elaborated
RUNTIME	98860	4700947523	6	03.00	No STORAGE_ERROR (or user logged-off) for task stack limit exceeded
	98860	4700863746	19	03.25	Heap memory lost on close of file
TOOLS	98860	4700877944	15	04.35	Shared memory utility "shmat" interferes with Ada heap
	98860	4700886150	16	04.35	Suppressing uncalled subprograms incorrectly turns on binder listing
	98860		19	04.35	Binder aborts when considering too many unused subprograms for deletion

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Keyword	Product number	KPR number	page	uu.ff	Description
********none********					
	ADA-DSA	4000071258	24	04.35	AdaProbe's STEP fails on exceptions raised via SIGILL, SIGSEGV or SIGFPE
	ADA-DSA	4000093419	32	04.35	Certain AdaProbe commands following an XTRA.INVOKE are not executed
	ADA-DSA	4000093435	32	04.35	AdaProbe XTRA.EDIT.FIND cmd has non-UNIX concept for regular expressions
	ADA-DSA	4000093468	32	04.35	DISPLAY option of the AdaProbe XTRA.LEARN.EXECUTE cmd works improperly
	ADA-DSA	4000094243	33	04.35	FIX'BASE has incorrect values for attributes 'FIRST and 'LAST
	ADA-DSA	4700820555	37	04.35	AdaProbe decodes the PARAMETER string of EXEC.RESTART inconsistently
	ADA-DSA	4700822056	37	04.35	Assembly output shows misleading record alignment values
	ADA-DSA	4700822171	39	04.35	AdaProbe's XTRA.LEARN.TEACH uses undocumented cursor movement commands
	ADA-DSA	4700822189	39	04.35	AdaProbe doesn't detect if the program has been removed from the library
	ADA-DSA	4700822197	40	04.35	XTRA.INVOKE within .ada.proberc results in deadlock or INTERNAL ERROR

Keyword	Product number	uu.ff	Description	KPR number	page
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	ADA-DSA	04.35	AdaProbe's EXEC.STEP from a RETURN may jump to another RETURN point.	4700822247	41
	ADA-DSA	04.35	AdaProbe INTERNAL ERROR when INVOKE file command's strin parm > 85 chars	4700822254	41
	ADA-DSA	04.35	AdaProbe cannot OBJECT.EXAMINE/ASSIGN a separate package body object.	4700822270	41
	ADA-DSA	04.35	AdaProbe detects "Exec.Error" at START_RESET.i on EXEC.RESTART.	4700822288	42
	ADA-DSA	04.35	CANCEL of online HELP is inconsistent with the other AdaProbe commands	4700822304	42
	ADA-DSA	04.35	ADACOMP generates incorrect AdaProbe line codes for IF-ELSIF statements.	4700822312	42
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	ADA-DSA	04.35	Several AdaProbe commands overwrite existing files without warning	4700822379	44
	ADA-DSA	04.35	AdaProbe's XTRA.LEARN.TEACH doesn't record mouse input	4700822387	44
	ADA-DSA	04.35	AdaProbe's EXEC.RESTART with incomplete parameters causes INTERNAL ERROR	4700822395	44
	ADA-DSA	04.35	AdaProbe unable to restart after error termination in user program	4700822403	45
	ADA-DSA	04.35	AdaProbe may display an extra box mark when the screen is resized in X11	4700822494	45
	ADA-DSA	04.35	If AdaProbe fails to open an X window it doesn't cleanup after itself.	4700822510	45
	ADA-DSA	04.35	Use of pseudo token EOFMARK in error message could be better	4700822528	46
	ADA-DSA	04.35	"Too many indicators" message may be unclear and can be truncated	4700822882	47
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	ADA-DSA	04.35	AdaProbe's OBJECT.EXAMINE gives wrong value for some record components	4700831826	51
	ADA-DSA	04.35	Creation of direct access file that exists doesn't delete old file	4700831875	52
	ADA-DSA	04.35	FLOAT_IO.GET on STRINGs does not raise DATA_ERROR on INTEGER literal	4700831891	53
	ADA-DSA	04.35	Non-blocking open for a terminal can block	4700835306	53
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	ADA-DSA	04.35	Library cannot be deleted with ada.rmlib when created previously	4700839605	55
	ADA-DSA	04.35	Instantation of generic in package spec raises PROGRAM_ERROR	4700840561	58
	ADA-DSA	04.35	Ada tasks that call interface code may behave incorrectly	4700842872	58
	ADA-DSA	04.35	If two people try "ada.mklib" at same time one may not finish	4700843672	59
	ADA-DSA	04.35	Compiler aborts on invalid comparison involving renamed "="	4700857698	60
	ADA-DSA	04.35	Listing process does not check for I/O errors, allows SIGPIPE to occur	4700857714	61
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	ADA-DSA	04.35	Working directory not restored after error when it could be	4700880245	64
	ADA-DSA	04.35	Improve Appendix F so that it describes how to use RECORD_SIZE FORM parm	4700882134	64
	ADA-DSA	04.35	Ada compiler gives meaningless diagnostic and aborts	4700882142	65
	ADA-DSA	04.35	If the environment variable ENV is set some ada.xxx commands may fail	4700883488	65
	ADA-DSA	04.35	Compiler gives variety of incorrect errors on too many units in library	4700905174	70
	ADA-DSA	04.35	Change default task stack size to 32K.	4700905182	70
	ADA-DSA	04.34	AdaProbe can't display FOR variables	4000096230	35
	ADA-DSA	04.34	Dynamic in-out slice of bit packed boolean array uses wrong elements	4000096321	36
	ADA-DSA	04.34	Front end incorrectly folds constant mod expression	4700831057	48
	ADA-DSA	04.34	HLOPT incorrectly removes good code after FIXED'LARGE attribute.	4700831065	49
	ADA-DSA	04.34	HLOPT incorrectly removes checks causing bad results	4700831073	50
	ADA-DSA	04.34	Ada compiler thinks conversion will raise error	4000096339	36
	ADA-DSA	04.31	Setting TASK'STORAGE_SIZE too small not detected	4700829911	47
	ADA-DSA	04.31	Floating point I/O with illegal number causes program to hang	4700861740	61
	ADA-DSA	04.31	Time slicing seems to be ineffective in heavy I/O situations	4000096347	37
	ADA-DSA	04.30	Two ada.mklibs of the same library at the same time can both fail	4700839753	57
	ADA-DSA	04.30	Library manager family information can be "out of date"		

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	ADA-DSA	04.10	Nested generic instantiation causes compiler to abort	4000093005	30
	ADA-DSA	04.10	Wrong expression eval order when assigning overlapping array slices	4000093203	31
	ADA-DSA	04.10	Wrong HLO effect for variable tested after LOOP which may alter variable	4000093310	31
	ADA-DSA	04.10	Wrong HLO effect when S'LAST is compared to 0 where S is a STRING param	4000093328	32
	ADA-DSA	04.10	Predefined operator may incorrectly not be hidden by a later homograph	4700839696	56
	ADA-DSA	03.25	RENAMING of a component of a transient record causes compiler abort	4000070896	23
	ADA-DSA	03.25	AdaProbe VIEW.NEW incorrectly omits construct statements (eg exceptions)	4000071357	24
	ADA-DSA	03.25	AdaProbe does not detect abnormal termination in interfaced code	4000071423	25
	ADA-DSA	03.25	System can lock-up when keys are pressed too rapidly in AdaProbe (X11)	4000071431	25
	ADA-DSA	03.25	AdaProbe INTERNAL ERROR on OBJECT command of generic spec/body object	4000072603	25
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	ADA-DSA	03.25	AdaProbe does not allow EXEC.STEP command after a user interrupt	4000089011	28
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	ADA-DSA	03.25	AdaProbe reverse video disappears when breakpoint set on current line	4000089151	28
	ADA-DSA	03.25	Inlining side-effect functions may affect normal program execution	4000089268	28
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	ADA-DSA	03.25	Suggestion: AdaProbe EXEC.WHERE cmd should display <library> unit name	4000089789	29
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	ADA-DSA	03.25	CALENDAR functions TIME_OF and SPLIT return wrong results for leap year	4000089805	29
	ADA-DSA	03.25	Wrong generic subprogram parameter association for "=" and "/="	4000089953	30
	ADA-DSA	03.25	"-C" compiler option shouldn't affect code of all generic instantiations	4000089979	30
	ADA-DSA	03.25	unchecked conversion as a function result cannot always be returned	4000096149	34
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	ADA-DSA	03.25	AdaProbe ASSIGN/EXAMINE defect with register OBJECTS in unoptimized code	4700822874	46
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	ADA-DSA	03.00	Compiler goes into an infinite loop on ambiguous overloading	4000082727	26
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ADA	ADA-DSA	03.25	AdaXref does not create "introduced" procedure in generic instantiation	4000055467	22
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	ADA-DSA	03.25	AdaFormat produces ugly list of identifiers in multiple declaration	4000056465	23
	ADA-DSA	03.00	Compiler crash when large unit w/generics compiled with "-k" option	4000057919	23
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	ADA-DSA	04.35	FLOAT_IO.PUT incorrectly raises LAYOUT_ERROR on large negative number.	5000558130	73
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**********none*********	HP98678A	01.01	Lisp should load required modules automatically.	4000036616	117
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	HP98678A	01.00	Current language can get out of sync with mode of buffer	4000046128	118
	HP98678A	01.00	Emacs menu "MODES" not complete.	4000046433	118
	HP98678A	01.00	When loading files, cannot determine use of old or new entry points	4000046441	119
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	HP98678A	01.00	C-M-Return doesn't work in the middle of a shell-buffer.	4000033522	86
	HP98678A	01.00	Package objects are accessible as normal vectors or arrays.	4000033902	94
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	HP98678A	01.00	READ-CHAR-NO-HANG does not work with device files.	4000033928	95

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	HP98678A	01.00	System not observing restriction of call-argument-limit (p108 CLtL)	4000033951	96
	HP98678A	01.00	Disassemble output is not compatible with either LAP or UNIX assembler.	4000033977	96
	HP98678A	01.00	pp-expand does not preserve SPECIAL declarations in locally (and let).	4000033985	97
	HP98678A	01.00	Bothtime functions (e.g. proclaim, in package) take only constant args.	4000033993	97
	HP98678A	01.00	(defun nil () nil) works interpretively not compiled	4000034017	98
	HP98678A	01.00	Preprocessor does not handle &key and &rest in the wrong order	4000034025	99
	HP98678A	01.00	Preprocessor error from an eval shows as eval on stack; not the pp fn!	4000034041	99
	HP98678A	01.00	(.&key) causes spurious compiler warning.	4000034066	100
	HP98678A	01.00	Outer eval-when specs don't control inner ones.	4000034074	101
	HP98678A	01.00	PP does not check declare name for symbolp; causes error in printing.	4000034157	104
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	HP98678A	01.00	Fletting a constant folded function gives wrong results.	4000034249	107
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	HP98678A	01.00	Can't redefine interpreted fn just before call in XM.	4000034298	109
	HP98678A	01.00	Codegen gives "wrong number of arguments" error.	4000034355	111
	HP98678A	01.00	Optimization bug with (equal 3.0 0).	4000034363	111
	HP98678A	01.00	Defmacro destructuring does not always initialize correctly.	4000034371	112
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	HP98678A	01.00	Double-float-epsilon needs to be different on 881.	4000034421	114
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	HP98678A	01.00	pprint seems to print certain forms incorrectly.	4000034454	114
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	HP98678A	01.00	GENSYM message refers to extraneous init forms	4000034744	116
NMODE	HP98678A	01.00	File search indexes allow dup names and leading/embedded spaces.	4000033357	80
	HP98678A	01.00	Find file on read protected file creates an empty buf & new file msg.	4000033373	80
	HP98678A	01.00	Left locator button clicks above browser items beep; clicks below don't.	4000033381	80
	HP98678A	01.00	Command line of editing buffer sometimes erroneously shows C-M-L.	4000033399	81
	HP98678A	01.00	It's not possible to customize (bind keys to commands) all keyboard keys	4000033407	81
	HP98678A	01.00	Buffers can be accidentally killed if they have long filenames.	4000033415	82
	HP98678A	01.00	Undocumented behavior with cmd-argument to C-X O.	4000033431	82
	HP98678A	01.00	Command functions do not follow M-X conventions.	4000033449	83
	HP98678A	01.00	LISP specific commands do not completely parse all CL systaxes.	4000033456	83
	HP98678A	01.00	M-) command isn't consistent with indentation done by other commands.	4000033464	83
	HP98678A	01.00	White space at the end of a sentence is treated as another sentence.	4000033472	84
	HP98678A	01.00	In auto fill + text modes Nmode doesn't keep left margin in view.	4000033480	84
	HP98678A	01.00	Receiving input from more than 27 file descriptors causes error.	4000033498	85
	HP98678A	01.00	Hitting [Break] while creating nmode shells causes loss of shell access.	4000033506	85
	HP98678A	01.00	HP-UX command softkey is confusing and may cause garbage.	4000033514	85
	HP98678A	01.00	Shell buffers are not correctly named according to options.	4000033530	86
	HP98678A	01.00	Keyboard and locator inputs not always processed in order entered.	4000033548	87
	HP98678A	01.00	Locator buttons may be missed during switching of windows.	4000033555	87
	HP98678A	01.00	Mouse clicks can cause keystrokes to be ignored	4000033563	88
	HP98678A	01.00	Changing C block begin/end chars in C Edit Options breaks C-M-F/B.	4000033571	88

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- COMMON LISP DEVELMNT -   SSB ISSUE DATE: 11/21/90

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NMODE	HP98678A	01.00	Template placeholders can be lost during template edit when CR inserted.	4000033589	89
	HP98678A	01.00	BREAK key typed during load of tutor disables Load command for tutorial.	4000033597	89
	HP98678A	01.00	The Restore key in the NMODE tutorial does not restore all situations.	4000033605	89
	HP98678A	01.00	Where-Am-I for Directories specifies "directories" instead of files.	4000033613	90
	HP98678A	01.00	Help Where-I-Am lists a non-existant function.	4000033621	90
	HP98678A	01.00	Tutorial keys are changed if a breakloop entered while in the tutorial.	4000033639	90
	HP98678A	01.00	Evaluating a form in customize tutorial will overwrite the instructions.	4000033647	91
	HP98678A	01.00	Online help for C-]_L does not describe fully what the command does.	4000033654	91
	HP98678A	01.00	Documentation of Defuns in any of the online-help info needs futher desc	4000033662	92
	HP98678A	01.00	Help frame on Upcase-digit needs description of effective range.	4000033670	92
	HP98678A	01.00	Softkeys can not be used with prefixed commands.	4000033688	92
	HP98678A	01.00	Nmode -t Create window softkey exists even if window support does not.	4000033696	93
	HP98678A	01.00	Softkeys for original window are reset.	4000033704	93
	HP98678A	01.00	Windows in input mode cannot be killed with popup menu.	4000033712	93
	HP98678A	01.00	Lisp L gets errors when run from background	4000033720	94
	HP98678A	01.00	Load of binary file with other than .b suffix gives unintelligible error	4000033944	95
	HP98678A	01.00	Save-world doesn't unwind bindings, save break state, update open files.	4000033969	96
	HP98678A	01.00	File names containing $ are not handled correctly.	4000034009	97
	HP98678A	01.00	Sys:*break-level-limit* & Sys:*break-limit-exceed-limit can work incorr.	4000034033	99
	HP98678A	01.00	Attempt to trace method on undefined type gives meaningless warnings.	4000034058	99
	HP98678A	01.00	DIRECTORY pathname can't read LAN root directory.	4000034082	100
	HP98678A	01.00	Documentation discrepancy on listener-abort/quit/-continue.	4000034090	101
	HP98678A	01.00	After lstep, XM starts afresh on each new form, losing history.	4000034108	101
	HP98678A	01.00	Misleading error message in stepper when aborting the computation.	4000034116	102
	HP98678A	01.00	Exec Monitor mismaps the i and v keys.	4000034124	103
	HP98678A	01.00	When ExMON is active, Lisp-a from 2nd window pops up ExMon in 2nd window	4000034132	103
	HP98678A	01.00	Stack overflow makes nmode window the bottom window.	4000034140	103
	HP98678A	01.00	Exec. Monitor does not allow changing the number of function return val.	4000034165	104
	HP98678A	01.00	Error in on-line help text for Exec Mon.	4000034173	104
	HP98678A	01.00	Meaningless warning msg from Execution Monitor.	4000034181	105
	HP98678A	01.00	Additional facilities prints incorrect message when loading xs browser.	4000034199	105
	HP98678A	01.00	Execution Monitor signals error that a form is not an identifier.	4000034207	106
	HP98678A	01.00	Restoring default Breakpoints in XM options browser bad warn message	4000034215	106
	HP98678A	01.00	When XM not loaded (step <form>) EVALs <form>, then says step undefined	4000034231	107
	HP98678A	01.00	Function reported in "Condition signalled in ... " msg not consistant.	4000034256	107
	HP98678A	01.00	In xm, quit acts like an inefficent run (changes modes, run does not).	4000034280	109
	HP98678A	01.00	Stepper resets debug::*step-size* when peferred value is set.	4000034306	109
	HP98678A	01.00	Stepper does not gracefully accept bad input when in input mode.	4000034314	110
	HP98678A	01.00	XM signals non-continuable error if call an undefined function.	4000034322	110
	HP98678A	01.00	V(alue) cmd on env item in stack br signals error--should ignore instead	4000034330	110
	HP98678A	01.00	Compile-file creates .b with wrong permissions (should use umask).	4000034348	110
	HP98678A	01.00	y-or-n-p and yes-or-no-p should prompt.	4000034462	115

- COMMON LISP EXCUTION -   SSB ISSUE DATE: 11/21/90

Keyword	Product number	uu.ff	Description	KPR number	page
**********none********* HP98679A		01.00	Order of FORTRAN function parameters effects calc.when called from LISP.	1650041749	122

- DOS COPROCESSOR SFTW -   SSB ISSUE DATE: 11/21/90

Keyword	Product number	uu.ff	Description	KPR number	page
**********none********* 98531A		02.00	If dosconfig used to disconnect & reconnect LPT1->spooler, fails errno32	4000093401	124

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Keyword	Product number	uu.ff	Description	KPR number	page
*********none*********	98531A		- DOS COPROCESSOR SFTW - SSB ISSUE DATE: 11/21/90		
	98531A	02.00	README.DOC doesn't mention REDIR when showing how to update AUTOEXEC	4000093567	124
	98531A	01.20	dos subsystem ties up system when pressing extend/reset for long time	5000429019	125
	98531A	01.06	Shell escape from DOS and try to start DOS again. Font's get trashed.	4000078683	124
	98531A	01.05	CTTY does not work with VIACOOPD loaded	4000058446	123
DOCUMENTATION	98531A	02.00	format not correctly documented	5000456640	125
DOS CO-PROCESSOR	98531A	02.00	DOS Co-processor does not work correctly with 98549A	1650119883	123
	98531A	01.20	pop up menu under dos.x hangs the dos window	5000479725	126
PROLOG	79232U		- HP PROLOG 1.0 - SSB ISSUE DATE: 11/21/90		
	79232U	01.00	PROLOG goes into infinite loop on certain predicates.	1650042044	127
*********none*********	79725A		- HP SQL/300 - SSB ISSUE DATE: 11/21/90		
	79725A	70.00	Backend process core dump due to unable to allocate free page buffer.	4700839928	145
	79725A	70.00	Integer Overflow on Operation Convert when inserting min integer value.	4700857938	147
	79725A	70.00	HP SQL internal error (MPE-XL Error 16) occurred: nested query testing	4700877282	152
	79725A	70.00	Error 139 may be returned with Read Uncommitted during a timing window.	4700878447	152
	79725A	70.00	Query returns DBERR 4053	4700896944	161
	79725A	70.00	Start dbe newlog accepts 'logx and logy' without using Dual log command	4700906263	162
	79725A	70.00	Nested query resulted in TRAP 13	4700915462	166
	79725A	70.00	PSQLCOB does not allow assigning integer values > 2,147,483,647	4700921429	166
	79725A	70.00	Over/underflow may result due to incorrect cost computation in optimizer	4700929687	172
	79725A	70.00	NEW and DISPOSE called a lot while executing an SQL program.	4700933788	172
	79725A	70.00	A potential undetected deadlock with RU application in a loaded system.	4700939512	175
	79725A	70.00	Migrating a DBE with DDL disabled caused DBCore error 134 in CREATE FILE	4700941633	175
	79725A	70.00	Slow performance on join of tables	4700945683	177
	79725A	70.00	CURRENT_DATETIME function is not accurate as its format requires.	4700949016	178
	79725A	70.00	incorrect result from retrieving a default value from varbinary column	4700949685	179
	79725A	70.00	Incorrect char string is displayed when it's a default val to varbin col	4700949701	179
	79725A	20.33	Optimizer may choose sort merge join when nested loop join is faster	4700905877	162
	79725A	20.29	BULK FETCHES with KEEP CURSOR WITH NOLOCKS cause DBCORE internal err 184	4700933028	172
	79725A	08.56	Incorrect error message (DBERR 2910) when OPEN CURSOR is used.	4700946715	177
	79725A	08.55	FORTRAN preprocessor generates syntax error for valid compiler options.	4700937037	173
	79725A	08.03	"DBCon File invalid-DBERR 3066" expected but DBERR 3078 reported on 300.	4700863472	148
	79725A	07.26	Declare Cursor with 'LIKE' returns DBERR 4051 from JGEFMT(1)	4700923268	166
	79725A	07.18	Complex query with OR predicate runs out of memory and returns TRAP 68	4700923284	167
	79725A	07.16	Changing the select list on a 5 table join query returns fewer rows.	4700855932	146
	79725A	07.16	Pascal runtime error returned from ISQL processing japanese input > 2k	4700842989	145
	79725A	07.00	An ALTER TABLE section in a 2.0-migrated 7.0 database fails for FLOATs.	4700829952	143
	79725A	07.00	Incorrect query results for OR predicate with null indicator set.	4700835561	144
	79725A	07.00	While testing FIPS a particular query hangs.	4700837666	144
	79725A	07.00	Internal error on join query including OR and ORDER BY,GROUP BY,DISTINCT	4700852574	146
	79725A	07.00	Sort is returning bad data on select on >16 col table with index.	4700855837	147
	79725A	07.00	INSERT of REAL number outside of legal negative range is not trapped	4700859488	148
	79725A	07.00	Arithmetic computation results in an integer underflow condition.	4700859660	148
	79725A	07.00	Error 1058 result on update after no more tuples code is returned.	4700882951	153

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*********none*********	79725A	07.00	KEEP CURSOR scans can proceed with no system relations locks	4700882985	154
	79725A	07.00	PASCAL preprocessor fails to preprocess SELECT COUNT(*) FROM T1 command	4700883330	157
	79725A	07.00	Internal error 52 occurs in a joined nested query	4700883959	158
	79725A	07.00	Subquery with EXISTS hangs	4700883975	158
	79725A	07.00	Doubly defined error for SQLCODE at compile time - ANSI conform. issue.	4700890228	159
	79725A	07.00	User session waiting for a page can not be aborted due to a hang	4700890448	160
	79725A	07.00	Null Indicator set to 4 on select of dec(4,0) into S9(4)COMP-3 field	4700923300	167
	79725A	07.00	Packed decimal overflow on operation CONVERT. (DBERR 2605)	4700923318	168
	79725A	07.00	Random DBERR 2605 errors with UNION commands	4700923326	169
	79725A	07.00	DBERR 2413 returned with large number of OR INDEX predicates.	4700923334	169
	79725A	07.00	"Invalid decimal precision error" on UNION command with decimal data.	4700923342	170
	79725A	07.00	Two COMMIT WORK with DDL disabled and KEEP CURSOR in effect causes hang.	4700923367	170
	79725A	07.00	DBERR 4053 may be returned when optimizer not detecting over/underflow	4700929679	171
	79725A	07.00	DBCORE abort (internal error 3822) in a KEEP CURSOR application.	4700929687	173
	79725A	07.00	DBCORE error 181 is returned on fetch from a keep cursor	4700942342	176
	79725A	07.00	DBERR 4000 with five LIKE predicates separated by logical OR.	4700946814	177
	79725A	07.00	DBERR 4104 - shared memory failure on S300 series	5000566836	177
	79725A	03.00	START DBE NEW should clean up ALL files in case of failure.	4700899815	180
	79725A	02.00	HP SQL is utilizing a large amount of swap space	4700794388	140
	79725A	02.00	DBCORE reports "out of disc space" even though entire file is avlble.	4700795872	141
	79725A	02.00	2060, 2066 during load, select - following large delete	4700795898	141
	79725A	02.00	DBERR 4008 on query with BEGIN WORK RC or CS and involving sort.	4700795914	141
	79725A	02.00	SQL may choose force index plan when standard plan is better.	4700876128	151
	79725A	02.10	COBOL pp inserts 1-byte filler for variables outside DECLARE SECTION.	4700941799	176
	79725A	01.05	Data or Index space exhausted in DBEFILE0 (DBERR 2502).	5000484352	180
	79725A	01.01	Computing COUNT over an empty set returns no row instead of zero	1650059014	128
	79725A	01.01	FORTRAN preprocessor doesn't allow underscore in variable names	4700712463	133
	79725A	01.01	incorrect and nonexistent error msg (DBERR 3045) output	4700713743	134
	79725A	01.01	select while in unwritable directory causes abort from isql	4700714352	134
	79725A	01.01	ER to keep daemon from outputting errors to /dev/console	4700720177	134
	79725A	01.01	Internal error occurs in a query with 2 aggregates in an expression.	4700740589	135
	79725A	01.01	For certain decimal type fields, negative numbers are stored as positive	4700743401	135
	79725A	01.01	4053 on an update of a table with multiple indexes	4700747246	136
	79725A	01.01	DBCORE 285 caused by application with CS(or RC) and ORDER BY clause.	4700748368	136
	79725A	01.01	With NEQ operator, tuples w/ unknown search condition value are returned	4700753293	137
	79725A	01.01	Query with 13 between clauses fails with DBCore Internal Error 216.	4700768077	137
	79725A	01.01	ISQL help text examples should display the semicolon at end of command.	4700776633	138
	79725A	01.01	Incorrect error mssg from ISQL when ran out of disk space for tmp file.	4700776641	138
	79725A	01.01	Problem with using ISQL on 700/43 terminals	4700777813	139
	79725A	01.01	hpdbdaemon dies on CONNECT (error 1067) on S300 w/ floating pt accel.	4700778951	140
	79725A	01.01	After update or delete, opened cursor reads old data within transaction.	4700793570	140
	79725A	01.01	Data corrupted on 2048 byte when entering char string > 2048 bytes	4700803395	141
	79725A	01.01	Query result was sorted in ASC order although DESC was specified.	4700803704	142
	79725A	01.01	The bugcatcher on the 300 aborts with segmentation violation	4700829655	142
	79725A	01.01	ISQL is not checking for overflow on a 4 byte FLOAT	4700849927	146
	79725A	01.01	DBERR 13262 and RC 196 on SELECT w/ IN predicate during regression test	4700876060	151
	79725A	01.01	"HPSQL not running" appears twice for commands after TERMINATE USER	4700883280	156
	79725A	01.01	ISQL: Entering 'non-existent' command gives DBERR 2102	4700883322	157
	79725A	01.01	C preprocessor appears to cause byte alignment problems with application	4700901470	161

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	79725A	01.00	Must enter EXIT: a few times to exit ISQL when user #2 does a STOP DBE	4700883306	157
	79725A	01.00	Preprocessing "C" application with LANG=korean gives DBERRs 10908/11014.	4700892612	160
	79725A	01.00	wrong user used by sql for authorization after an su was done	5000260547	179
	79725A	00.00	we need to raise the minimum number of log pages allowed	4700441717	128
	79725A	00.00	unload to external. from cmd file requires all params on one line	4700451161	128
	79725A	00.00	illegal syntax error generated due to bigfile processing	4700455444	129
	79725A	00.00	installation module size not compatible with that of hp sql/800	4700481937	129
	79725A	00.00	BULK FETCH bug. Can only retrieve a certain number of rows.	4700539148	130
	79725A	00.00	LOAD command failing when pattern matching specified	4700552232	130
	79725A	00.00	negative numbers improperly sorted by ORDER BY	4700579508	131
	79725A	00.00	multi-table joins may cause memory allocation failures	4700590638	131
	79725A	00.00	incorrect error msg when using isql from directory w/bad permissions	4700594275	131
	79725A	00.00	unload command with embedded select stmt causes syntax error	4700594309	132
	79725A	00.00	internal error msg returned for < minimum log pages on start dbe	4700664219	132
	79725A	00.00	C compiler cannot resolve symbols when linking more than 1 object file.	4700687905	132
	79725A	00.00	DBERR 8207 returned by SHOWDBE command in SQLUTIL.	4700869537	149
	79725A	00.00	Missing tuple in a multi-user KC test	4700875468	149
	79725A	00.00	DBCORE error 2060 from aci fetchc (reproducible through Info Access)	4700876516	151
	79725A	00.00	Large variable index keys do not work correctly.	4700882936	153
	79725A	00.00	DBEFile existence not being verified in rollforward recovery	4700883009	155
	79725A	00.00	DBCore Internal Error 1057 returned when log full during SORT.	4700883033	156
	79725A	00.00	ISQL does not allow > 255 when SELECT includes joined tables	4700883413	158
	79725A	00.00	HPDBDAEMON needs to be more robust in its error handling	4700886796	159
	79725A	00.00	ISQL sometimes returns DBERR 49 when not recognizing in START file	4700908137	163
	79725A	00.00	Problems: Literals with -- and parameter prompt in ISQL is	4700908251	163
	79725A	00.00	HPSQL Alignment error(DBERR 4200) when using column of type DATETIME.	4700908285	164
	79725A	00.00	C Preprocessor truncates .c filenames when using -i option.	4700908319	164
	79725A	00.00	DBCORE gets a file open error when the number of files open exeeds limit	4700909167	165
	79725A	00.00	ISQL doesn't prompt correctly when user enters ; for command file parm	4700911537	165
	79725A	00.00	Corner case found with PAGE ALLOCATION log recs where rollfwd may fail.	4700912998	165
	79725A	00.00	DBERR 4050 internal error in JBIREF(1) when selecting from a view.	4700926865	171
	79725A	00.00	Need to increase the SQLUTIL max runtime control blocks constant.	4700946400	177
	79725A	00.00	HPIMAGE/DBCORE pass 34 page corruption bug during B-tree migration	4700948133	178
	79725A	00.00	SQLUTIL STORE command truncates storefile names longer than 44 chars.	5000566851	180
	79725A	00.00	SQLUTIL STORE gives confusing message with write-protected directory.	5000568196	180
ISQL	79725A	02.00	UNLOAD EXTERNAL using SELECT on a Japanese database aborts ISQL with (0)	4700768416	138
	79725A	02.00	ISQL exhibits transaction errors when loading large table from external	4700688226	133
SFK	79725A	02.00	UNLOAD EXTERNAL using SELECT on a Japanese database aborts ISQL with (0)	4700768416	138

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**********none********** 79725-90014		88.02	Compilation statement specifies libraries in incorrect order.	4700685560	182

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**********none********** HPCPLUSPLUSA		02.00	unnamed bit fields are initialized, even in ANSI mode (+al).	4700880393	183

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	HPCPLUSPLUSA	02.00	Pointers to members cannot always be assigned the constant zero.	4700890830	187
	HPCPLUSPLUSA	02.00	Cfront allows a const object to not be passed to non const member func.	4700890848	187
	HPCPLUSPLUSA	02.00	Bad debug info if only the enum tag from a class is referenced	4700891754	188
	HPCPLUSPLUSA	02.00	Forward struct references in inner scopes cause problems	4700891762	188
	HPCPLUSPLUSA	02.00	warning, not error, given for item declared as both signed and unsigned	4700891804	189
	HPCPLUSPLUSA	02.00	demangler does not handle leading correctly on s300s	4700891887	190
	HPCPLUSPLUSA	02.00	incorrect debug info emitted for local static cfront temps	4700891911	191
	HPCPLUSPLUSA	02.00	member function call returns wrong value if access declaration used.	4700892992	192
	HPCPLUSPLUSA	02.00	pointer to the virtual table is being copied when it should not be	4700893016	193
	HPCPLUSPLUSA	02.00	cfront crashes when calling static function inherited from virtual base	4700893073	194
	HPCPLUSPLUSA	02.00	cfront puts out incorrect warnings about integral type compatibility.	4700893099	194
	HPCPLUSPLUSA	02.00	The debugger does not understand the void data type	4700893107	194
	HPCPLUSPLUSA	02.00	bogus error message for implicit conversion to int for unary op.	4700893206	195
	HPCPLUSPLUSA	02.00	Wide string literals aren't scoped properly	4700893503	195
	HPCPLUSPLUSA	02.00	Enum's aren't scoped properly	4700893511	196
	HPCPLUSPLUSA	02.00	Cfront allows duplicate declarations of enum's	4700893529	196
	HPCPLUSPLUSA	02.00	Incorrect handling of redefinition of classes in blocks	4700893537	196
	HPCPLUSPLUSA	02.00	Cfront does not catch calls to main, violation of sec. 3.4 in ref manual	4700893545	196
	HPCPLUSPLUSA	02.00	Cfront does not correctly mangle member funcs. for tagless classes	4700893552	197
	HPCPLUSPLUSA	02.00	reference to type void should get error	4700893578	197
	HPCPLUSPLUSA	02.00	redefinition of enum tag name in inner scope not allowed	4700893586	197
	HPCPLUSPLUSA	02.00	cfront using +d option works incorrectly	4700893628	198
	HPCPLUSPLUSA	02.00	cfront does not complain about anon member and local var with same name	4700894113	199
	HPCPLUSPLUSA	02.00	cfront does not handle static anonymous unions properly	4700894121	199
	HPCPLUSPLUSA	02.00	Variable with the same name as a label is not emitted.	4700894139	199
	HPCPLUSPLUSA	02.00	Invalid code generation for pointers to static members.	4700894154	200
	HPCPLUSPLUSA	02.00	link-time unsat for derived class ptbl when using +e0/+e1 facility	4700894162	200
	HPCPLUSPLUSA	02.00	xdb may print the incorrect value for members of a virtual base class	4700894535	201
	HPCPLUSPLUSA	02.00	allows declaration of uninitialized const structs, classes, & unions	4700897009	201
	HPCPLUSPLUSA	02.00	member function declared volatile treated same as const	4700897017	202
	HPCPLUSPLUSA	02.00	initialization of union unimplemented	4700898460	202
	HPCPLUSPLUSA	02.00	line numbers not monotonic for inlined constructor	4700898478	202
	HPCPLUSPLUSA	02.00	Typedef altered by AUTO struct that invalidates future declarations	4700898734	203
	HPCPLUSPLUSA	02.00	initialization of AUTO struct (using +a) gets bus error.	4700899401	203
	HPCPLUSPLUSA	02.00	Strstream operator<< occasionally appends garbage to output string.	4700900100	203
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	HPCPLUSPLUSA	02.00	not implemented 2020: cannot expand inline function with static var	4700908533	206
	HPCPLUSPLUSA	02.00	no "arg not used" warning for array args	4700908541	206
	HPCPLUSPLUSA	02.00	internal error 3111: can't find vptr for some nested class definition	4700908558	206
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	HPCPLUSPLUSA	02.00	phrase "struct A" can't be used in a type cast in struct A definition	4700908574	207
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	HCPPLUSPLUSA	02.00	Several func. prototypes missing from <X11/XHPlib.h>.	4700927459	209
	HCPPLUSPLUSA	02.00	<CC/dir.h> header has indented #defines, which affects /lib/cpp.	4700927467	209
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********none********	B1691A		- HPC++ S300 - SSB ISSUE DATE: 11/21/90		
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		01.00	OVeCnvAddr() always return -6300l even if input address is valid	4700908921	217
		01.00	op blocks not cleared when association is aborted	4700913459	217
		01.00	On rose, rosy fatal errors the association is not aborted or cleared.	4700913467	217
		01.00	wrong type of result is accepted (delete result is accepted for an event)	4700917179	218
		01.00	request id's are non-negative, man pages say they are positive	4700917476	218
		01.00	if doPSdata decodes an invoke w/o args, data struct is never freed	4700917500	218
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********none********	98794A				
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		06.05	Missing asterisks in sigsetops(3C) manual entry in SYNOPSIS	4000094631	224
		06.05	missing aclentrystart(3C) link to strtoacl(3C) manual entry (oops)	4000094342	223
		06.05	truncate(2) still contains an invalid BUGS section;	4000094615	224
		06.05	open(2), close(2) (and others?) don't mention behavior w.r.t. sockets	4000094623	224
		06.05	typo affect should be effect	4000094656	225
		06.05	Man page: "b" command shows wrong syntax for [count] (should be [\count]	4000094664	225
		06.05	iomap man page example contains /n instead of \n	4000094938	225
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	50967A	01.00	Binary files of certain lengths sent incorrectly using ~ control lines	4000093039	235
	50967A	01.00	rje_bg or rje_router can hang writing job notification to PTY terminal	4000093492	236
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	98680B	06.05	Cl internal error in "function": illegal leaf node 49	4000097451	259
	98680B	06.05	no table entry for op REG (unoptimized)	4700879924	261
	98680B	06.05	'diff -e .i .led -, results in 2-byte file ("?\n") -- unusual case	4700901041	261
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	98680B	06.01	different results with -0	5000542357	301
	98680B	06.01	a sparse file causes kernel panic	5000299735	272
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	98680B	05.15	line printer spooler can lose data if printer is off line	5000184275	263
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	98680B	05.11	accounting does not properly report users' connect time.	5000219485	265
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SHUTDOWN	98680B	06.05	"init s" or "shutdown 0" causes error message "HOME variable not set"	5000493999	288
STARBASE	98680B	05.20	"gclose" of "hpgl" driver fails with error about semaphore	5000517565	297
	98680B	03.10	sleep(2) followed by gopen(3) generates core dump	5000503367	295
	98680B	03.00	gopen with RESET DEVICE does not behave properly when using A1047A board	5000468884	283
TAR	98680B	06.05	tar(1) creates files with // in front of file name	5000484378	287
TBL	98680B	06.00	"tbl" doesn't produce proper looking boxes on laser jet printer	1650057828	239
TERMINFO	98680B	06.05	terminfo, vt100 and xterm do not work together	5000487363	287
TSORT	98680B	05.03	Tsort(1) generates spurious output line when processing long file names	5000232702	268
UMOUNT	98680B	06.02	AMOUNT DOES NOT REMOVE TMP FILES	5000419770	277
UPDATE	98680B	06.05	/ETC/MAGIC ALWAYS GETS OVERWRITTEN DURING AN UPDATE	1650093351	243
UUCP	98680B	06.02	the -j and -o options to uustat return an illegal option message	5000436899	278
VI	98680B	06.05	vi(1) does not display correct format for information when using telnet	5000537837	300
	98680B	05.15	Problem with terminfo and vi using 2392Sa	5000198770	264
	98680B	05.02	PROBLEM WITH UNDO FOR GLOBAL CHANGES IN MACROS IN VI	1650093328	243
XARGS	98680B	05.21	Xargs(1) of more(1) doesn't work as documented	1650041160	238
XDB	98680B	06.02	fdb has problems with formal arguments to CHARACTER*(*) subroutines	1650076091	240

- SERIES 300 GKS -   SSB ISSUE DATE: 11/21/90

Keyword	Product number	uu.ff	Description	KPR number	page
********none********	98672B	06.50	GSPKID returns wrong value	1650063933	304
GKS	98672B	06.50	gsfais() & gfa() don't draw right and bottom edges on x11	1650086041	304
STARBASE	98672B	06.50	gsfais() & gfa() don't draw right and bottom edges on x11	1650086041	304

- SNA3270 300 -   SSB ISSUE DATE: 11/21/90

Keyword	Product number	uu.ff	Description	KPR number	page
********none********	36590A	03.10	SA msg queues should be created with permissions 660, not 666	4700667626	305
	36590A	03.10	sa sna3270 spins if given a remotesplit hostname (hpindlb:ibm)	4700667634	305
	36590A	02.10	SNA3270 causes the 800 to lock up and hang	5000443366	305
	36591A	03.11	SNA3270 uses some help messages reserved for the Nuc.	4700667600	307
	36591A	03.10	Power off LU, send LUSTAT. Power on lu, send Notify ON. This is wrong.	1650043760	307

- SNA3770 300 -   SSB ISSUE DATE: 11/21/90

Keyword	Product number	uu.ff	Description	KPR number	page
********none********	98184A	01.01	AS SOON AS MON3770 SEES TRN IN A PUNCH FILE, IT STOPS INTERPRETING DATA	1650091587	309
	98184A	01.00	JES3 receives Invalid FM header from host with recommended logmode	4700714915	309
	98188A	01.01	Enhancement: Enabling padding with trailing blanks, as real device does.	1650107045	310

- SNALINK 300 -   SSB ISSUE DATE: 11/21/90

Keyword	Product number	uu.ff	Description	KPR number	page
********none********	36592A	03.21	system panic when SNALink is installed and PSIDAD is run	5000520528	312
	36592A	03.21	Snanuc fails when the host sends ua an second snrm.	5000542688	313
	36592A	03.20	if LU name is 8 chars, field formatting messed up in snarpt	4700734566	312

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Keyword	Product number	uu.ff	Description	KPR number	page
**********none**********			- SNALINK 300 -	SSB ISSUE DATE: 11/21/90	
	36592A	03.10	if SA nucleus is dead, error messages aren't very friendly	4700667568	311
	36592A	00.00	When only1 lu is defined in the config file, X-f occurs when a key hit	4700420307	311
	36592A	00.00	Session, file transfer, and character drop problems with SNALINK.	4700474577	311
			- SNALINK 300/GW -	SSB ISSUE DATE: 11/21/90	
**********none**********	36593A	03.20	SNALink install script fails on AXE systems which lack /usr/bin/id	4700733758	317
	36593A	03.10	ALPHA-SITE: Mod-2 BIND image rejected by SNALink/SNA3179G.	4700667519	314
	36593A	03.10	Incorrect processing of COMM504 when in an SSCP-LU session.	4700667576	315
	36593A	03.10	Incorrect generation display codes when COMM 504 occurs in LU-LU session	4700667584	316
	36593A	03.10	Incorrect msg "sna3270 for LU X is being ordered to terminate."	4700667618	316
	36593A	03.10	snalink has snamchk226::mchk end:code:901file:/./queue/dqeqmgr.c	4700674499	316
	36593A	00.00	Request to allow more valid PSERVICE parameters in logemode table.	4700419606	314
			- SOFT PC FOR 9000/300 -	SSB ISSUE DATE: 11/21/90	
**********none**********	98870A	01.03	Turbo Prolog under CGA emulation broken.	4000094904	329
	98870A	01.03	ExecutiveMemomaker won't work. Too many file handles. config.sys OK.	4000094912	329
	98870A	01.03	Drawing Gallery drops character when entering a text string.	4000094920	330
	98870A	01.03	Cannot install Lotus 123 using SlavePC.SCR100	4000095026	330
	98870A	01.03	Mouse user interface is unfriendly, can be hard to use.SCR55,SCR163	4000095034	331
	98870A	01.03	Escape character does not exit demo mode properly MS Flight Sim.,SCR161	4000095042	331
	98870A	01.03	Sailing game will not run; encounters illegal instruction.SCR168	4000095059	331
	98870A	01.03	Advance Link won't install from floppy drive A:.SCR170	4000095067	331
	98870A	01.03	The SoftPC cursor was the wrong color with some applications.SCR42	4000095075	332
	98870A	01.03	Graphics problems with text in pc mode 40. with Willy game.SCR102	4000095083	332
	98870A	01.03	Problems updating complete screens of video memory,SCR167	4000095091	332
	98870A	01.03	Round42 game has slow and bad graphics.SCR169	4000095109	333
	98870A	01.03	PrintMaster program will not run from the FSA drive, E:.SCR172	4000095117	333
	98870A	01.03	Mouse attached to Smalltalk V Application is inoperative	4000095448	333
	98870A	01.03	Crosstalk XVI doesn't work with PC bulletin board yellow pages,SCR#162	4000095455	334
	98870A	01.03	Graphics problem with Typ-Set. bad characters and backgrounds,SCR#86	4000095463	334
	98870A	01.03	The scenery flashes when using MS Flight Simulator.SCR205	4000095505	334
	98870A	01.03	MS Windows does not list files selectively with WIN DRAW command,SCR202	4000095588	335
	98870A	01.03	The right hand alt key doesn't work.SCR232	4000095596	335
	98870A	01.03	Crosstalk XVI has timing problems,SCR162	4000095810	335
	98870A	01.03	executing cat890511.exe from hpccf gets "CRC Error" (works on XT)	4000096206	336
	98870A	01.03	Falcon game will not run in Hercules graphics mode	4700921791	337
	98870A	01.03	Test Drive will not run in HGA mode	4700921882	337
	98870B	02.00	Mouse driver: current version is old/doesn't work properly w/new apps.	4700887851	340
	98870B	02.00	Running WordPerfect slows down SoftPC by 4 times	4700911818	340
	98870B	02.00	drive B doesn't work unless on at DOS boot time	4700921700	340
	98870B	02.00	MKS "ls" command makes drive E unusable	4700921718	340
	98870B	02.00	Cursor sometimes vanishes forever	4700921726	341
	98870B	02.00	all files created on drive E have execute permission	4700921734	341
	98870B	02.00	SoftPC terminal version numeric keypad mapping gets confused	4700921809	343
	98870B	02.00	key repeat delay too long	4700921825	343

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Keyword	Product number	uu.ff	Description	KPR number	page
********none********	98870B	02.00	Starflight game will not run in EGA mode	4700922500	354
	98870B	02.00	cannot use MODE to set 19.2K baud rate	4700922518	354
	98870B	02.00	SoftPC behaves incorrectly with explicit KB focus policy	4700922526	354
	98870B	02.00	should not permit "block" device files for floppy	4700922534	354
	98870B	02.00	AdvanceLink: Ctrl-F6 doesn't work	4700922583	354
	98870B	02.00	AdvanceLink hangs after Alt-H	4700922591	354
	98870B	02.00	X11 keyboard:Numeric keypad "/" key does not work	4700922757	354
	98870B	02.00	X11 Keyboard: ScrLckBreak key does't register on Diagnostic Programs	4700922765	355
	98870B	02.00	Codepage language support: German."7":key, "\" dead key broken	4700922773	355
	98870B	02.00	70044 terminal: Asterisk key not working on numeric keypad	4700922781	355
	98870B	02.00	FSA, filenames with certain extensions not accesible from SoftPC	4700922799	355
	98870B	02.00	Reverse video does not work on the 2392,2394 and 7009x terminals	4700922807	355
	98870B	02.00	DOS Xcopy command doesn't work properly with FSA directories	4700922815	355
	98870B	02.00	Concurrent PC-DOS won't install on SoftPC	4700922823	355
	98870B	02.00	Displaywrite4 screen not refreshed completely	4700922831	355
	98870B	02.00	Problems resetting LIM (memory) to zero	4700922849	355
	98870B	02.00	learn program from Microsoft Works locks entire SoftPC window	4700922856	356
	98870B	02.00	Microsoft Works 2.0: using same arrow key causes unwanted repeating	4700922864	356
	98870B	02.00	Trying to start Quattro Pro fails and ocassinally locks all windows	4700922880	356
	98870B	02.00	does not handle input before boot message is up	4700923094	356
	98870B	01.30	autofreeze behaves incorrectly with explicit keyboard focus	4700921775	342
	98870B	01.30	Errors when editing or creating drawings with Autocad	4700922146	347
	98870B	01.30	LIM user interface is hard to use	4700922153	347
	98870B	01.30	Tests operate incorrectly with PC Labs	4700922161	348
	98870B	01.30	File error with Multimate advantage	4700922203	348
	98870B	01.30	Executing VGA tests fails with internal error using PCLabs test	4700922211	349
	98870B	01.30	All keys in MS Word autorepeat	4700922245	349
	98870B	01.30	RMVC.SYS formatting D: drive will fail	4700922286	350
	98870B	01.20	assigning /dev/tty to COM1 causes SoftPC to hang	4700921783	342
	98870B	01.03	MS Windows 2.03 crashes	4700921866	343
	98870B	01.02	can't use DOS coprocessor hard disk	4700921742	341
	98870C	02.00	spc hangs when HP BASIC-UX is active	4700922914	357
DOCUMENTATION	98870A	01.03	using softpc p 3-4 implies all home directories in /users.	4000093757	328
	98870A	01.03	using slave pc section p.4-21 configuration info inadequate.	4000093765	328
SOFT PC	98870A	01.03	Typing very fast may cause characters to be lost or garble command line	4000091660	318
	98870A	01.03	function keys do not work with evelys word program	4000091678	318
	98870A	01.03	cannot connect an HP-IB plotter to a com port	4000091728	318
	98870A	01.03	"MS Learning DOS" hangs softpc just after start up,SCR160	4000091736	319
	98870A	01.03	caps lock key must be pushed twice to change state.	4000091926	319
	98870A	01.03	sidekick does not work in CGA mode	4000091934	320
	98870A	01.03	SoftPC Comm ports do not have eight bit parity capabilities	4000091983	320
	98870A	01.03	soft PC does not assign colors correctly,SCR254	4000091991	320
	98870A	01.03	copying from com1 to a file doesn't work correctly,SCR246	4000092015	320
	98870A	01.03	word perfect graphics conversion locks up softpc, graphcnv.exe,SCR251	4000092023	321
	98870A	01.03	setup panel highlights random characters,SCR214	4000092056	321
	98870A	01.03	full ibm character set is not correctly implemented	4000092072	322
	98870A	01.03	all legal termcap ID's for the 2393 terminal are not recognized by Softp	4000092098	323
	98870A	01.03	garbage appears on screen when using model 700/44 terminal,SCR222	4000092106	323
	98870A	01.03	cursor doesn't track properly when running "Word Perfect",SCR250	4000092130	324

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			- SOFT PC FOR 9000/300 - SSB ISSUE DATE: 11/21/90		
SOFT PC	98870A	01.03	line drawing characters aren't mapped correctly	4000092148	325
	98870A	01.03	Cannot connect HPIB printer to comm port properly,SCR220	4000092205	326
	98870A	01.03	softpc kills the bell and autorepear in x11	4000093666	327
	98870A	01.03	softpc will not work properly with some types of reparenting windowmngr	4000093674	327
	98870A	01.03	reassigning devices will lock up soft pc	4000093690	327
	98870A	01.03	/usr/bin/dosls incorrectly specifies volume labels as filenames	4000093708	328
	98870A	01.03	pages A-Z and A-4 "using soft pc; should not refer to the DOS coprocssor	4000093781	329
	98870A	01.03	Soft PC does not understand local:0 DISPLAY variable	5000463372	337
	98870A	01.03	Request:reposition window used to create new devices to avoid overlap	5000464107	338
	98870A	01.03	can't enter text into menu box when adding a new hard drive using menu	5000474726	338
	98870A	01.03	Lotus, Work Perfect will not work with drive e on SPC 1.3	5000527143	339
	98870A	00.00	Color Graphics refresh is slow on Falcon game,SCR143	4000092049	322
			- STARBASE RAD & RAY - SSB ISSUE DATE: 11/21/90		
**********none**********	98885A	01.00	render_scene gives incorrect error message for unclosed trim curves	4000096396	358
	98885A	01.00	Objects diappear when they are place exactly on the hither plane	4000096412	358
	98885A	01.00	Radiosity shadows not computed for extremely small environments.	4000096438	358
	98885A	01.00	False shadows are produced at some polygon vertices	4000096446	359
	98885A	01.00	Complex polygons may get holes punched in them.	4000096461	359
	98885A	01.00	"Invalid global environment id" should read "Invalide scene id"	4000096479	359
	98885A	01.00	Facets disappear in some ray traced spline surfaces.	4000097113	360
	98885A	01.00	Facets have "acne" in ray trace of certain spline surfaces.	4000097121	360
	98885A	01.00	Gamma correction causes a crash for backgrounds and flat shade items.	4000097139	360
	98885A	01.00	Facets get shadowed when radiosity done on specific spline surface	4000097147	361
	98885A	01.00	When a trimming curve is applied to certain spline surfaces edges drop	4000097154	361
	98885A	01.00	Intensities per/vertex not blended correctlyon meshed polygons.	4000098533	361
			- X.400 SERV SOFTWARE - SSB ISSUE DATE: 11/21/90		
**********none**********	32058A	00.00	Some x400 utils, when run as root, leave behind *.conf belonging to root	4700852525	362
	32058A	00.00	MR version contains several man pages from FT	4700876714	362
	32058A	00.00	Queview only works when the full pathname is specified	4700883124	362
	32058A	00.00	x4perm has a problem changing premsissions for x4mailer, etc	4700885632	362
	32058A	00.00	Zero length subject causes encoder to go down(error 5029 or event 505)	4700929372	362
	32058A	00.00	x4xfer fails if MPE nodename extenion is > 16 characters	4700941898	362
	32058A	00.00	x4admin core dumps when hit <field help> on local x.25 nsap field.	5000558338	362

KPR #: 400023648   Product: 300/800 COMMON   97089-XXXXX   00.00

Keywords: AWK

One-line description:
Errors in awk documentation.

Problem:
Errors in awk documentation:
* Concepts and Tutorials
  On page 11 it shows the string function split but does not
  show the usage which is
      n=split(....)
* Ref. Guide
  Page 2 of awk(1), lines 10 and 11 should be ~(for contains)
  and !~(for does not contain). The '~' does *not* appear.

This defect entry references errors in three manuals:

Text Processing C&T, awk:
  There is no example of any usage for split (p.16).
  n=split(...) is one use.
HP-UX Reference, awk(1):
  As of, at least as early as, Release 6.5/3.1 the Ref. Guide
      did show the tildes. They may have been missing from
      earlier editions.
Text Formatters C&T, nroff:
  There is no suggestion about using col before sending
      nroff output to the printer or CRT.

Cause:
The TBL examples work correctly with troff,but sometimes do not work
with proff. Nroff output should be run through col as explained
on col(1) manual page in HP-UX reference.

Temporary solution:
Need to add note to tutorial explaining the necessity of using
col(1) after nroff before sending output to printer or CRT.
----

for nroff outputs to CRT or printer, consider, as it appears in
  HPUX Reference, col(1):
      tbl <filename> | nroff -man | col | more -s
for awk(1) in the HPUX Reference, use ~ (tilde) as a matching-
  operator meaning "contains", and use !~ (exclamation-point
  tilde) as matching-operator meaning "does not contain" in:
      expression matching-operator regular-expression
for using split in awk, one use is to determine the number of
  fields(n) a string is split into:
      n=split(<string>,<array-name>,<separator>)

Fix information:
Will be fixed in future release

The HPUX Reference entry for awk(1) is updated to reflect
  the tilde omission for, at least as early as, Release 6.5/3.1
The awk C&T* entry is enhanced to show an example for .

KPR #: 400023648 **CONTINUED**

split for Release 8.0
The nroff C&T* entry is enhanced to show using col for
  nroff CRT and printer output for Release 8.0
---
* As of Release 8.0, C&T's are restructured and renamed. The
  new collection is User's Guides, rather than C&T's. awk
  is a Part of the Text Processing User's Guide; nroff is a
  Part of the Text Formatting User's Guide. Page numbering
  may have changed.

KPR #: 400098558   Product: 300/800 COMMON   97089-XXXXX   00.00

One-line description:
Subject: bug in wc documentation

Problem:
Subject: bug in wc documentation

The manual page says that wc prints the file name if multiple files are
specified on the command line. Wc prints the file name even if only one
file name is specified on the command line.

Temporary solution:
None needed.

Fix information:
Fixed several releases ago.

Signed off 07/16/90 in release X05.30

KPR #: 470086216   Product: 300/800 COMMON   97089-XXXXX   00.00

One-line description:
How to configure the 2nd serial I/O port for the 808/815 isn't documentd

Problem:
The HP 9000 Series 800 System Administrator's Manual does not describe
how to use the built-in RS232 Port B.

Temporary solution:
The HP9000 Series 800 Installing the HP 815S Integrated System manual,
Edition 1, August 1989 (HP Part Number A1071-90000), discusses the
use of Port B, but the discussion is not correct.

The sentence on page 5-2 that reads,

Port A is identified to the system as: sccl lu (logical unit) 0
address 1. Port B is identified to the system as: sccl lu 1 address
1.

Should be replaced by the following:

Ports A and B are connected to sccl interface card, which uses the
sccl driver. This card is identified in the S800 file by the entry,

KPR #: 4700868216 **CONTINUED**

    sccl lu 0 address 1.

Port A uses device file "/dev/ttya", and Port B uses device file
"/dev/ttyb". The entry, for example, for a terminal using Port B
in the /etc/inittab file might be:

    ca:2:respawn:/etc/getty ttyb H

Fix information:
As of the next release of HP-UX Series 800 computers, the system will
automatically configure the driver for the sccl interface card. The
system will also install the device files, /dev/ttya for Port A and
/dev/ttyb for Port B.

The SAM utility will also support the sccl driver, allowing addition
of devices to both Ports A and B.

KPR #: 5000296855 Product: 300/800 COMMON   97089-XXXXX   00.00

Keywords: DOCUMENTATION

One-line description:
Periph Inst Gde, give switch setting for 98550A when 98556A is added.

Problem:
Switch settings for the 98550A Color Video Board are not given
when a 98556A 2D Graphics Accelerator is installed. The display
will not work properly without changing these switch settings.

Fix information:
May be fixed in a future release.

KPR #: 4700916833   Product: 3179G DISP. STATION B1001A   01.01

One-line description:
Sense code 0871000 and a negative response are returned at logon time.

Signed off 07/06/90 in release A01.03

KPR #: 4700916841   Product: 3179G DISP. STATION B1001A   07.00

One-line description:
Programmed Symbols and Image Symbols display wrong on HP700/X terminal.

Signed off 07/06/90 in release A01.03

KPR #: 4000040410   Product: ADA DS. - 9000/300   98860   03.00

One-line description:
Constant folding should raise NUMERIC_ERROR but raises CONSTRAINT_ERROR

Problem:
Constant folding which results in a value outside of the base type range incorrectly raises a CONSTRAINT_ERROR rather than a NUMERIC_ERROR during execution. As in:

```
with text_io;
procedure HP404100M is
  s: short_short_integer;
  negone: integer := -1;
begin
  begin
    -- The following incorrectly raises constraint error.
    s := short_short_integer(-128) / short_short_integer(-1);
  exception
    when CONSTRAINT_ERROR =>
      TEXT_IO.PUT_LINE("CONSTRAINT_ERROR raised incorectly");
    when NUMERIC_ERROR =>
      TEXT_IO.PUT_LINE("NUMERIC_ERROR raised correctly");
  end;
  ---
  begin
    -- The following correctly raises numeric error.
    s :=short_short_integer(-128) / short_short_integer(negone);
  exception
    when CONSTRAINT_ERROR =>
      TEXT_IO.PUT_LINE("CONSTRAINT_ERROR raised incorectly");
    when NUMERIC_ERROR =>
      TEXT_IO.PUT_LINE("NUMERIC_ERROR raised correctly");
  end;
end HP404100M;
```

Fix information:
May be corrected in a future release.

KPR #: 4000047415   Product: ADA DS. - 9000/300   98860   03.00

One-line description:
Unhandled exceptions in a task may fail to produce a traceback.

Problem:
Unhandled exceptions in tasks should produce a traceback as in the environment task. There is no particular reason the environment task should be singled out for this treatment.

```
with text_io; use text_io;
procedure HA474150M is
  task crash;
  ---
  task body crash is
    count : integer := 10;
    frac  : float;
```

- ADA DS. - 9000/300 -

KPR #: 4000047415   **CONTINUED**

```
  begin
    loop
      -- unhandled exception when count = 0
      frac := float (1/count);
      count := count - 1;
    end loop;
  end crash;
begin
  put_line("Tasks created with unhandled exception.");
  put_line("HA474150M FAILED if no traceback for " &
           "unhandled exception in task");
end HA474150M;
```

Tasks created with an unhandled exception.
HA474150M FAILED if no traceback for unhandled exception in task.

<No traceback.... FAILED>

Fix information:
May be corrected in a future release.

KPR #: 4000056556   Product: ADA DS. - 9000/300   98860   03.00

Keywords: ADA

One-line description:
'ADDRESS returns bad value if applied to program unit not yet elaborated

Problem:
Wrong value is returned by the attribute ADDRESS when applied to a program subunit which is not yet elaborated.

```
As in:
  with SYSTEM; use SYSTEM;
  package PACK is
    procedure P;
    X : ADDRESS := P'ADDRESS;   -- P has not been elaborated
  end PACK;
```

Temporary solution:
Insure the elaboration of the program subunit. In the given example, initialize X to P'ADDRESS within the body of PACK (which contains the body of P). Or declare P in another library package; and use pragma ELABORATE of that library package before initializing X to P'ADDRESS within the specification of PACK.

Fix information:
May be corrected in a future release.

KPR #: 4000057836   Product: ADA DS. - 9000/300   98860   03.00

Keywords: ADA

One-line description:
No STORAGE_ERROR (or user logged-off) for task stack limit exceeded

- ADA DS. - 9000/300 -

KPR #: 4000082925   Product: ADA DS. - 9000/300   98860   03.00

One-line description:
The MACHINE_ROUNDS attribute is wrong for fixed point types

Problem:
The following program shows a bug in the 'MACHINE_ROUNDS attribute for
fixed point types. The program does a division of a fixed point value
by an integer. This operation truncates, and does not round. Because
of this, fix'MACHINE_ROUNDS should be FALSE rather than TRUE.

```
with TEXT_IO;
procedure FIXROUNDS is
   type fix is delta 1.0 range -10.0 .. 10.0;
   F: fix;
begin
   F := 3.0;
   F := F / 4;    -- will either truncate to 0.0 or round  to 1.0.
                  -- Either are OK according to RM 4.5.7, since the
                  -- required bounds on the result is the model
                  -- interval 0.0 .. 1.0. However, since division is
                  -- a predefined arithmetic operation, if truncation
                  -- occurs,  fix'MACHINE_ROUNDS should be FALSE, RM
                  -- 13.7.3.

   if (F = 0.0) then
      if (fix'MACHINE_ROUNDS) then
         -- This is the message printed!!!!!!!!!!!!!
         TEXT_IO.PUT_LINE (
            "FAILED, did truncation and MACHINE_ROUNDS was true")
      else
         TEXT_IO.PUT_LINE (
            "PASSED, did truncation and MACHINE_ROUNDS was false");
      end if;
   elsif (F = 1.0) then
      if (fix'MACHINE_ROUNDS) then
         TEXT_IO.PUT_LINE (
            "PASSED, did rounding and MACHINE_ROUNDS was true");
      else
         TEXT_IO.PUT_LINE (
            "FAILED, did rounding and MACHINE_ROUNDS was false");
      end if;
   else  TEXT_IO.PUT_LINE ("FAILED:  F is neither 0.0 or 1.0");
   end if;

end FIXROUNDS;
```

Fix information:
May be fixed in a future release.

KPR #: 4700822031   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
Object value corrupted by assignment of array with certain lower bound

Problem:
If an object is allocated after a variable declaration of an

- ADA DS. - 9000/300 -

KPR #: 4000057836   **CONTINUED**

Problem:
Objects declared within tasks are allocated in the task's stack. If the
object is larger than the available task stack limit, then STORAGE_ERROR
(or TASKING_ERROR depending on where in the task the problem occurred)
should be raised, but instead, results in a "Memory fault" with a core
dump. Additionally, if the main program happens to be performing IO,
the user may get logged-off.

Example (no IO in main program):
```
program MAIN is
   task type T;
   type TA is access T;
   X : TA;
   task body TA is
      O : array (INTEGER range 1..10000) of INTEGER;
   begin
      null;
   end;
begin -- MAIN
   -- The following statement should cause STORAGE_ERROR, but instead
   -- it results in a "Memory fault" with a core dump.
   X := new TA;
end MAIN;
```

Temporary solution:
By default, task stack limit of a task (not the main program) is
8*1024 bytes. With the "-W b,-t,<nnn>" option, this limit can be
increased to avoid this problem. Additionally, the user can change
the program to declare smaller items or use the heap (rather than
the stack).

Fix information:
May be corrected in a future release.

KPR #: 4000070938   Product: ADA DS. - 9000/300   98860   03.00

One-line description:
Poor error message when a subprogram does not conform with its spec

Problem:
When the body proposed for a subprogram P does not conform
(profile) with its spec, a short message says "the body of P
is missing"; whereas signaling the presence of potentially
matching specifications would be more user-friendly.

Fix information:
May be corrected in a future release.

Signed off 03/27/90 in release A04.35

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KPR #: 4700827220 **CONTINUED**

```
    TEXT_IO.PUT_LINE ("About to abort");
    abort T;
    TEXT_IO.PUT ("Aborted");
end TA;
```

Temporary solution:
We can let the runtime check for abnormalcy
by making an entry call or executing a delay
statement in the task being aborted. This
forces the aborted task to be swapped out
and checked for abnormalcy. Therefore,
task body T in the example above can be
modified as :

```
    task body T is
    begin
      loop
        delay 0.1;
      end loop;
    end T;
```

Fix information:
The bug is fixed in 5.32 compiler which has a new tasking model.
The abort statement has an immediate effect except for tasks
engaged in a rendezvous as callers.

KPR #: 4700839746   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
PROGRAM_ERROR may occur when lib pkg has record w/ dyn array components

Problem:
PROGRAM_ERROR raised at execution time when a library
package contains an object of a record type having dynamic
array components which may raise CONSTRAINT_ERROR.
Test program follows:

```
package SA is
  I : integer := 0;

  type REC2 (size : positive := 1) is
    record
      S : string (1 .. size);
      C1, C2 : integer range 1 .. positive (I);
    end record;
  VAR2 : REC2;
end SA;

with SA;
procedure SA3763 is
begin
  null;
end SA3763;
```

KPR #: 4700822031 **CONTINUED**

array type having as lower bound T'PRED(X) with X less than
T'FIRST, the object value is corrupted after the assignment
of that array variable.

Test program follows:

```
with TEXT_IO;
procedure sa3092 is
  type T is range 0 .. 25;
  X : T := 0;
  A : array (T'pred (X) .. 10) of INTEGER;
  Y : INTEGER := 0;
begin
  A := (OTHERS => 1);
  TEXT_IO.PUT (INTEGER'IMAGE(Y));
  if Y = 0 then TEXT_IO.PUT_LINE("  PASSED");
    else TEXT_IO.PUT_LINE("  FAILED");
  end if;
end;
```

KPR #: 4700827220   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
Abort never occurs without task reaching sync. point

Problem:
The runtime system checks for abnormalcy before and after it performs
operations. e.g., making an entry call, aborting a task, etc. However,
it doesn't check if a task becomes abnormal at the end of each time
slice. Therefore, if a task only loops around users' code and is
aborted, it will never terminate. The following example illustrates:

```
-- This program never terminates.  According to the LRM, it doesn't
-- need to, but it would be better if the task were checked for
-- abnormalcy after each time slice.  With that, this would terminate.

with TEXT_IO;
procedure TA is

  pragma PRIORITY (1);

  MINE: exception;

  task T is
    pragma PRIORITY (1);
  end T;
  task body T is
  begin
    loop
      null;
    end loop;
  end T;

begin
  delay 0.1;
```

KPR #: 470842864   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
Unhandled exception in main subprogram incorrectly kills library tasks

Problem:
```
-- This program shows a bug in Ada/300 only.
-- It does not appear in Ada/800.

-- We have a library package with a task, and two main subprograms.
-- If I bind with MAIN_NORMAL, the main completes normally, and then
-- waits for the library task to complete. If I bind with MAIN_EXCEPT,
-- the main completes by raising an exception. In this case, the
-- exception manager aborts the program, killing the library
-- task. This is not correct, it should wait for library tasks.

package HAS_TASK is
  task LIB_TASK is
    entry POKE (ARG: in STRING);
  end LIB_TASK;
end HAS_TASK;

with TEXT_IO;
package body HAS_TASK is
  task body LIB_TASK is
  begin
    for I in 1..100 loop
      select
        accept POKE (ARG: in STRING) do
          TEXT_IO.PUT_LINE (ARG);
        end POKE;
      or
        delay 0.5;
        TEXT_IO.PUT_LINE ("In task");
      end select;
    end loop;
  end LIB_TASK;
end HAS_TASK;

with HAS_TASK;
procedure MAIN_NORMAL is
begin
  for I in 1..5 loop
    delay 2.0;
    HAS_TASK.LIB_TASK.POKE ("In main");
  end loop;
  HAS_TASK.LIB_TASK.POKE ("MAIN DONE!!!");
end MAIN_NORMAL;

with HAS_TASK;
procedure MAIN_EXCEPT is
begin
  for I in 1..5 loop
    delay 2.0;
    HAS_TASK.LIB_TASK.POKE ("In main");
  end loop;
  HAS_TASK.LIB_TASK.POKE ("MAIN RAISING!!!");
```

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KPR #: 470842864   **CONTINUED**
```
    raise NUMERIC_ERROR;
  end MAIN_EXCEPT;
```

Temporary solution:
Put an exception handler at the end of your main subprogram, as follows:
```
  exception
    when others =>
      TEXT_IO.PUT_LINE ("MAIN terminated with exception");
  end;
```

This will cause the main to print a message and complete normally, avoiding the bug.

KPR #: 470843680   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
Incorrect aggregate for packed array of a subtype of Boolean

Problem:

The following test case demonstrates a problem with the 68k code generator. When generating code for the (others => TRUE) statement, the 68k code generator gets the BFEXTS instruction wrong.

The problem occurs when a subtype of STANDARD.BOOLEAN is used in a length clause and assigned a size of 1 bit in a size specification. The compiler generates an incorrect MC68020 instruction: BFEXTS, when code is emited for the (others => TRUE) aggregate.

If the code is optimized with HLOPT the problem disappears.

```
=====================================================================
with TEXT_IO;
procedure BUG is
  use TEXT_IO;

begin  ---------------------------- CASE #1 ----------------------------
declare
  type BIT is new BOOLEAN;
  for BIT'SIZE use 1;

  type BITARR is array(0..2) of BIT;
  for BITARR'SIZE use 3;

  A1 : BITARR := (others => TRUE);
  A2 : BITARR := (0 => TRUE, 1 => TRUE, 2 => TRUE);    -- ERROR CASE
begin
  PUT_LINE("Case #1:");
  if A1 /= A2 then                    -- A1 and A2 should be equal
    PUT_LINE("   Bad representation for aggregate: " &
```

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KPR #: 4700852830 **CONTINUED**

Fix information:
May be fixed in a future release

KPR #: 470086296? Product: ADA DS. - 9000/300 98860 04.34

One-line description:
Ada.Make utility does not work on Ada/300 release 4.35

Problem:
The version of ada.make shipped with HP-UX 7.0 (Ada version 4.35)
does not work at all. This is due to a product release problem.
Unfortunately, the wrong file got released to manufacturing.
Ada.make is the only product component affected by the problem.

Ada.make will issue error messages like the following:

*** Error: That's an unknown qualifier DEBUG.
Make: Error:
| Incorrect parameters, make aborts.

ada.make: Errors detected.

Ada.make aborts right away, and does not produce any results.

The revision strings of the bad version are as follows (to find these,
type: "cd $ADA_PATH; what ada.make*"):
ada.make:
      HP98860 A.04.35 89/09/30
ada.make.bin:
      HP98860 A.04.35 Ada/300 DS AdaMake   89/09/29

Temporary solution:

There is a patch available, to replace the faulty version of the
ada.make tool with a working version. The patch is on the Fort
Collins SE machine (hpfcse) in
directory ~/ftp/unsupp-patches/300-7.0/Ada. The file README in that
directory explains the patch. For a copy, call the HP Response
Center (the standard HP support channel).

The adamake patch has been incorporated into released product and
shipped through manufacturing. This version of the product was
shipped on tape with part number 98860-10036.

Fix information:
Fixed in version 4.35 of the product. Fixed is on tape with part
number 98860-10036. Customers on update services should have
already received the new tape.

Signed off 03/27/90 in release A04.35

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KPR #: 4700843680 **CONTINUED**

```
         " '(others => TRUE)'.");

    end if;

  end;

---------------------- CASE #2 ---------------------

declare
  subtype BIT is BOOLEAN;  -- Type BIT renames STANDARD.BOOLEAN

  type BITARR is array(0..2) of BIT;
  pragma PACK(BITARR);

  A1 : BITARR := (others => TRUE);
  A2 : BITARR := (0 => TRUE, 1 => TRUE, 2 => TRUE);

begin
  PUT_LINE("Case #2:");        -- ERROR CASE
  if A1 /= A2 then             -- A1 and A2 should be equal
    PUT_LINE(" Bad representation for aggregate: " &
         " '(others => TRUE)'.");
  end if;
end;
end BUG;
```

Temporary solution:
The user can either use STANDARD.BOOLEAN directly or use
his own Boolean type which can be declared:

```
type BIT is (FALSE, TRUE); for BIT'SIZE use 1;
```

Also:

There is a patch available, to replace the faulty version of the
ada compiler with a working version. The patch is too big to put
on the Fort Collins SE machine (hpfcse). If you want a copy
call the HP Response Center (the standard HP support channel).
(Response Center engineers can call STD Languages Support for
details).

Fix information:
This defect may be repaired in a new release.

KPR #: 4700852830 Product: ADA DS. - 9000/300 98860 04.35

One-line description:
The result of fixed point division is rounded down.

Problem:

The compiler incorrectly truncates (rounds down) the result of
a fixed point division. This is incorrect because the Fixed Point
attribute F'MACHINE_ROUNDS returns TRUE.

Temporary solution:
There is no workaround at this time.

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KPR #: 4700863688   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
UNIX_ENV not in predefined library as documented.

Problem:
The User's Guide indicates that UNIX_ENV will be supported in the 4.35 release. However, this package has in fact been eliminated. Some customers who have used previous versions of the HP Ada Development System may make use of code which makes use of this package.

Temporary solution:
The UNIX_ENV package has been replaced by the SYSTEM_ENVIRONMENT package, which supplies the same functionality. The workaround is use this package instead.

Fix information:
Mention of the UNIX_ENV package has been removed from the HP documentation as of revision A.05.35.

KPR #: 4700863746   Product: ADA DS. - 9000/300   98860   03.25

Keywords: RUNTIME

One-line description:
Shared memory utility "shmat" interferes with Ada heap

Problem:
A program calls the HP-UX shared memory utility "shmat" to get a shared memory segment. After this, the Ada heap has been reduced to less than 64K bytes of available memory. Seems to be some interaction between "shmat" and the heap. This eventually causes STORAGE_ERROR.

Temporary solution:
There is a workaround available. For details, call the HP Response Center (the standard HP support channel). (Response Center engineers can call STD Languages Support for details).

KPR #: 4700868893   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
File name expansion works incorrectly if working directory is /

Problem:
Any time an Ada DS component is invoked when the current working directory is the root directory /, some path names displayed by the Ada DS component will start with two slashes // instead of one slash /. This is most noticeable with ada.lslib, but it can occur with any component.

The problem is essentially cosmetic as it will not cause failure of any of the ADS components (HP-UX will ignore the redundant leading / when access is attempted).

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KPR #: 4700868893   **CONTINUED**

Temporary solution:
There is no workaround at this time other than not performing Ada DS operations while the current directory is /. There is no harm in performing Ada DS operations correctly in other respects, displayed file paths simply "look strange" with the leading double /.

Fix information:
This defect has been corrected for Ada/800 revision 4.35, it will be corrected for Ada/300 at some revision after revision 4.35.

This defect has been corrected for both Ada/300 and Ada/800 at revision 5.3.

KPR #: 4700877944   Product: ADA DS. - 9000/300   98860   04.35

Keywords: TOOLS

One-line description:
Suppressing uncalled subprograms incorrectly turns on binder listing

Problem:
When the removal of uncalled subprograms is suppressed, with the "-W b,-k" binder option, it does so, but it also incorrectly turns on the binder map (the "-W b,-L" option). This produces many pages of output. The executable produced is correct, but the extra output is a nuisance.

Temporary solution:
There is a patch available, to replace the faulty version of the Ada compiler driver with a working version. The patch is on the Ft Collins SE machine (hpfcse) in directory ~ftp/unsupp-patches/300-7.0/Ada. The file README in that directory explains the patch. If you want a copy, call the HP Response Center (the standard HP support channel).

Fix information:
The mother program has been fixed.

KPR #: 4700882399   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
Incorrect slice assignment when target & source are ref. by same pointer

Problem:
Here is the test program I wrote to demonstrate the reported problem:

```
-- This test procedure illustrates the following error produced by the
-- ADA compiler:
--
--    when the value of a slice is assigned to another slice within the
--    same record and the slices are referenced by the same access
--    element, the assignment is done incorrectly.
                                                    ^^^^
```

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KPR #: 4700882399 **CONTINUED**

--

```
WITH text_io;

PROCEDURE A IS

USE text_io;

PACKAGE int_io IS NEW integer_io (integer);
USE int_io;

type array_range is (x, y);
type array_type is array (array_range) of integer;

type record_type;
type record_pointer_type is access record_type;
type record_type is record
    savepos, pos : array_type := (0, 0);
end record;

this_record_pointer : record_pointer_type;

BEGIN
this_record_pointer := new record_type;
this_record_pointer.pos := (20, 30);

-- The following line of code produces incorrect (unexpected) result:

-- The final value of the second element of savepos is 20, not 30!

--

this_record_pointer.savepos := this_record_pointer.pos;

put ( " pos : " );
put ( this_record_pointer.pos (x), 0);
put ( " " );
put ( this_record_pointer.pos (y), 0);
new_line;
put ( " savepos : " );
put ( this_record_pointer.savepos (x), 0);
put ( " " );
put ( this_record_pointer.savepos (y), 0);
new_line;

this_record_pointer.pos := (20, 30);

-- The following line of code produces correct result.

--

this_record_pointer.savepos (x..y) := this_record_pointer.pos (x..y);
put ( " pos : " );
put ( this_record_pointer.pos (x), 0);
put ( " " );
put ( this_record_pointer.pos (y), 0);
new_line;
put ( " savepos : " );
put ( this_record_pointer.savepos (x), 0);
```

KPR #: 4700882399 **CONTINUED**

```
    put ( " " );
    put ( this_record_pointer.savepos (y), 0);
    new_line;

    END A;
```

Temporary solution:

Do the assignment into a temporary variable, and then back
into the appropriate record.

KPR #: 4700883074   Product: ADA DS. - 9000/300   98860   04.35

One-line description:
FLU tools misbehave when arguments are 81 characters or longer.

Problem:

The ada.fmgr, ada.lmgr, and ada.umgr tools misbehave when they are
presented with arguments that are 81 characters or longer. In
particular, this problem has been noticed in the unit manager and the
library manager. Consider the following sample sessions.

```
ada.umgr testlib
Unit_Manager.1 <81char name>

    -- Program terminated by an exception propagated to a non Ada scope.
    -- Exception raised: PROGRAM_ERROR
    -- Erroneous instruction (address error) at PC: 0x370C6.

------------- Stack trace of the propagation in the main stack ------
```

Compilation unit name	Scope name	Scope kind	Line number
PARSER_LEXICAL	GET_EXTENDED_SYMBOL	SUBPROGRAM	412

```
    -- End of propagation: Program aborted.
```

The unit manager sometimes goes into an infinite loop.
Sometimes you get the message (unable to reproduce this)
error : Command not completed -- unexpected exception.

```
    -- UNIX signal #7 raised outside Ada code at PC: 0x8DF60.
    -- Program aborted.
sh: 19134 EMT trap - core dumped
```

Temporary solution:
Use shorter names in commands.

KPR #: 4700947523   **CONTINUED**

are closed. When compiled/bound with Ada revision A.05.35, the test
program supplied with this defect report shows stable memory use (i.e.
no increase in actual memory used) no matter how long the program is
allowed to run.

KPR #: 4700886150   Product: ADA DS. - 9000/300   98860   04.35

Keywords: TOOLS

One-line description:
Binder aborts when considering too many unused subprograms for deletion

Problem:
When binding large programs, the binder aborts with internal error.
If we suppress the removal of uncalled subprograms (with the "-W b,-k"
option), the binder works fine.
The error message is:
Ada Binder: Internal Error: Internal data is inconsistent. Either one
of your libraries may have been corrupted, or erroneous code has been
generated for one of the units.
*** Please contact your HP representative ***
Bind of MAIN failed. 1 error.
No valid object file generated.
ada: Errors detected.

Temporary solution:

There is a patch available, to replace the faulty version of the
binder with a working version. The patch is on the Fort Collins
SE machine (hpfcse) in directory ~ftp/unsupp-patches/300-7.0/Ada. The
file README in that directory explains the patch. If you want a copy,
call the HP Response Center (the standard HP support channel).

KPR #: 4700947523   Product: ADA DS. - 9000/300   98860   04.35

Keywords: RUNTIME

One-line description:
Heap memory lost on close of file

Problem:
There is a memory leak in file I/O. The following program uses up
memory and eventually runs out.

```
with TEXT_IO;
procedure FOO is
   F: TEXT_IO.FILE_TYPE;
begin
   loop
      TEXT_IO.OPEN (FILE => F, NAME => "/dev/null",
                    MODE => TEXT_IO.IN_FILE);
      TEXT_IO.CLOSE (FILE => F);
   end loop;
end FOO;
```

Temporary solution:
If you can just call RESET on the file, rather than CLOSE followed
by OPEN, there is no memory loss.

Fix information:
The Ada I/O system has been restructured at revision A.05.35 to properly
deallocate all heap objects created when files are opened, when files

KPR #: 1650139675   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: RUNTIME

One-line description:
SEQUENTIAL_IO.END_OF_FILE fails if BUFFER_SIZE FORM parameter used

Problem:
The problem is that the function END_OF_FILE does not
work when the BUFFER_SIZE FORM parameter has been used.

Temporary solution:
The workaround is not to use END_OF_FILE, but to
instead let READ detect the error and raise END_ERROR.
Then, handle the exception and go on from there.

Fix information:
The I/O buffering mechanism was modified for revision A.05.35 such that
END_OF_FILE reports the correct result when the BUFFER_SIZE FORM
parameter has been used to change the buffer size to other than the
default value.

KPR #: 4000035634   Product: ADA DS. - COMMON   ADA-DSA   03.00

One-line description:
Compiler rejects RENAMEd entities in separate clauses.

Problem:
The following programs illustrate a problem with RENAMES that
should work according to the semantics of rename RM 8.5 (3), but
does not compile. The problem is that the context manager (CTX) rejects
the use of renaming entities in separate clauses.
----
package A is
   package B renames A;
   procedure HP356340M;
end A;
---
package body A is
   procedure HP356340M is separate;
end A;
---
separate (B)
procedure HP356340M is
         1
         ‾ 1
1: ***CTX F001 The unit to compile is not known in the ADA library.

begin
   null;
end HP356340M;
----
package A is
   procedure B;
   procedure C renames B;
end A;

KPR #: 4000035634   **CONTINUED**

---
package body A is
   procedure B is separate;
end A;
---
separate (A)
procedure B is
   procedure HP356420M is separate;
begin
   null;
end B;
---
separate (A.C)
procedure HP356420M is
         1
         ‾ 1
1: ***CTX F001 The unit to compile is not known in the ADA library.

begin
   null;
end HP356420M;

Fix information:
May be corrected in a future release.

KPR #: 4000055467   Product: ADA DS. - COMMON   ADA-DSA   03.25

Keywords: ADA

One-line description:
AdaXref does not create "introduced" procedure in generic instantiation

Problem:

When a procedure is introduced via a generic package instantiation, and
referenced in the same unit, the cross referencer tool XREF does not
create an "introduced" occurrence in the corresponding entry .

KPR #: 4000055475   Product: ADA DS. - COMMON   ADA-DSA   03.25

Keywords: ADA

One-line description:
AdaXref creates irrelevant "renaming procedure" in generic instantiation

Problem:

When the defaults are used in a generic instantiation with defaulted
formal subprograms, cross referencer tool XREF creates an irrelevant
"renaming procedure" entry although no renaming procedure is explicitly
mentioned in the source.

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KPR #: 4000055341   Product: ADA DS. - COMMON   ADA-DSA   03.25

Keywords: ADA

One-line description:
AdaFormat abnormal early line folding in col 60 of proc body w/no parms

Problem:

The REFORMATTER (pretty printer) tool incorrectly begins line folding in column 60 (although page width is 80) on a procedure body without parameter.

KPR #: 4000055465   Product: ADA DS. - COMMON   ADA-DSA   03.25

Keywords: ADA

One-line description:
AdaFormat produces ugly list of identifiers in multiple declaration

Problem:

Output produced by the REFORMATTER (pretty printer) tool for a list of identifiers in a single declaration statement is unsightly (i.e. not pretty).

KPR #: 4000057919   Product: ADA DS. - COMMON   ADA-DSA   03.00

Keywords: ADA

One-line description:
Compiler crash when large unit w/generics compiled with "-k" option

Problem:
Compiler crash "VCM internal table (AIL_SAVE) overflow" when a large compilation unit containing generics is compiled with the save internal representation option ("-k").

Fix information:
May be corrected in a future release.

KPR #: 4000070896   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
RENAMING of a component of a transient record causes compiler abort

Problem:
If a component of a "transient" record object is RENAMED, the compiler aborts with a message indicating that compilation stopped in DAT due to a compiler limitation.

A transient record is a record type which
- has a defaulted discriminant, and
- whose size depends on discriminants value, and
- is potentially greater than 4096 bytes.

The typical example is:

                              - ADA DS. - COMMON -

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KPR #: 4000070896   **CONTINUED**

```
type TRANSIENT_RECORD(D:POSITIVE:= 80) is record
    C : STRING(1..D);
end record;
```

Fix information:
May be fixed in a future release.

KPR #: 4000071258   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's STEP fails on exceptions raised via SIGILL, SIGSEGV or SIGFPE

Problem:
AdaProbe's EXEC.STEP command incorrectly interprets exceptions raised via SIGILL, SISEGV, or SIGFPE as a fatal termination condition. The only recourse is to restart the debugging session with the EXEC.RESTART command.

Temporary solution:
The workaround for this defect is to avoid using EXEC.STEP on statements known to raise one of the above exceptions. Instead set breakpoints with BREAK.NEW and step through the statement with the EXEC.CONTINUE command.

KPR #: 4000071357   Product: ADA DS. - COMMON   ADA-DSA   03.00

One-line description:
AdaProbe VIEW.NEW incorrectly omits construct statements (eg exceptions)

Problem:
If I have a program fragment like:

```
with TEXT_IO;
procedure EXCP is
    IT: exception;
begin
    raise IT;
exception
    when IT =>
        TEXT_IO.PUT_LINE (...);
end EXCP;
```

And then I use VIEW.NEW (CURRENT, SAME, DECREMENT, GLOBAL), the result is:

```
with TEXT_IO;
procedure EXCP is
    IT: exception;
begin
    raise IT;
    when IT =>
end EXCP;
```

Notice that the line that contains "exception" has improperly gone away.

                              - ADA DS. - COMMON -

KPR #: 400071423   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe does not detect abnormal termination in interfaced code.

Problem:
In the case where program behavior is incorrect
for example when an exception was raised in interfaced code,
the message window indicates that "program normally completed".
This is definitely not accurate and misleading. Strongly suggest
that the wording be changed (possibly to "program terminated"). If
AdaProbe can detect abnormal behavior then append "abnormally" to
the message, otherwise be silent, and let the user determine if the
termination was abnormal or not, it is bad to tell the customer that
normal completion occurred when it clearly did not.

The EXEC.WHERE command exhibits similar behaviour.

KPR #: 400071431   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
System can lock-up when keys are pressed too rapidly in AdaProbe (X11).

Problem:
If keys are pressed too rapidly while an action is being undertaken
by AdaProbe as a result of previous keypresses, the system can become
locked up. The display screen may indicate some UNIX signal
received and the terminal is then locked up. On a workstation with
only a single display this will require rebooting the system in
order to regain control since the keyboard is remapped, and reset
from keyboard is not possible.

Duplicate Service Requests: 4000089664 4000071647

KPR #: 400072603   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe INTERNAL ERROR on OBJECT command of generic spec/body object

Problem:
AdaProbe may generate an INTERNAL ERROR when attempting an OBJECT
command (ASSIGN or EXAMINE) on an object within a generic specification
or body.

Fix information:
May be fixed in a future release.

KPR #: 400082677   Product: ADA DS. - COMMON   ADA-DSA   03.00

One-line description:
DEFAULT command does not attempt to clarify ambiguous abbreviations

Problem:
The Ada User's Guide states that   the   user will be notified of
ambiguity when entering abbreviated unit or family manager commands.
But the   DEFAULT   command   does   not   thoroughly   attempt   to   prevent
ambiguous   commands,   rather   executes   them.   For   example,   the   command

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KPR #: 4000082677 **CONTINUED**

unit manager command "d d YES" sets INVOKE.DISPLAY to YES and
QUIT.DEFAULTS to "YES".

Fix information:
May be corrected in a future release.

KPR #: 400082727   Product: ADA DS. - COMMON   ADA-DSA   03.00

One-line description:
Compiler goes into an infinite loop on ambiguous overloading

Problem:
In the following example, the array bounds could be either INTEGER or
SHORT_INTEGER. Since the compiler can not resolve this overload, the
compiler should give an "ambiguous overloading" error message, but
instead it goes into an infinite loop.

```
package DEFINE is
    function FFF (X: in integer) return integer;
    function FFF (X: in short_integer) return short_integer;
end DEFINE;

with DEFINE;
procedure BKEQ02_0M is
    type xx is array ( DEFINE.FFF(7)  .. DEFINE.FFF(6) ) of integer;
begin -- BKEQ02_0M
    null;
end BKEQ02_0M;
```

Fix information:
May be fixed in a future release.

KPR #: 400082792   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Incorrect error indicator position for infix or inlined function calls

Problem:
The compiler incorrectly locates error position indicators for errors
involving "infix" function calls or inlined function calls.

The following results assume the following declarations:

```
subtype SMALL is integer range 1..10;

function F (A, B: small) return integer;
function "&" (A, B: small) return integer;

function "and" (A, B: small) return integer;

pragma INLINE ("and");
```

The resulting error messages (note, these messages have been truncated):

```
61   I := F (I, 20);          -- Position indicators are OK
```

                        - ADA DS. - COMMON -

KPR #: 4000089011   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe does not allow EXEC.STEP command after a user interrupt

Problem:
AdaProbe does not allow the EXEC.STEP command after a user interrupt.
This is unacceptable because interrupting is usually motivated by the need to progress slowly by stepping.

Temporary solution:
Single step control may be regained following a user interrupt by setting a breakpoint at any valid Ada codepoint and then continuing execution until the breakpoint is reached. After reaching the breakpoint, single step commands will work normally.

KPR #: 4000089037   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe's EXEC.RESTART command should signal when loading is complete

Problem:
After executing AdaProbe's EXEC.RESTART command, the message "Loading program.." is first displayed, but no other message appears when loading is complete. Users may keep on waiting. A message should signal when loading is complete.

KPR #: 4000089151   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe reverse video disappears when breakpoint set on current line

Problem:
In dumb terminal mode on HP terminals, AdaProbe reverse video effects disappear when a breakpoint is set on the current line or stepping is performed.

Fix information:
May be fixed in a future release.

KPR #: 4000089268   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Inlining side-effect functions may affect normal program execution

Problem:
Using compiler option "-O" or "+O i" to inline subprogram calls may affect program execution when side-effect functions are involved.

Fix information:
May be fixed in a future release.

KPR #: 4000082792 **CONTINUED**

```
                 ^
                 22
1 :   *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2 :   *EXP 6009 CONSTRAINT_ERROR will be raised if executed.
   62   I := F (20, I);        -- Position indicators are OK
             ^ ^
             22
1 :   *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2 :   *EXP 6009 CONSTRAINT_ERROR will be raised if executed.
   64   I := I & 20;           -- EXP positions wrong
            ^       ^
            2       2
1 :   *COD 9004 CONSTRAINT_ERROR will always be raised here at executio
2 :   *EXP 6009 CONSTRAINT_ERROR will be raised if executed.
   65   I := 20 & I;           -- EXP positions wrong
                 ^
                 22
```

Duplicate Service Requests: 4000092684

KPR #: 4000082909   Product: ADA DS. - COMMON   ADA-DSA   03.00

One-line description:
Compiler gets INTERNAL ERROR on fixed point with negative delta

Problem:
The following test shows a problem with the declaration of fixed point types. RM 3.5.9 (3) says that "The delta ... must be positive (nonzero)". Therefore, these two declarations are clearly wrong. However, the compiler does not catch this error, and processes the declarations anyway, until the SNT table overflows. The error message is:

VCM Internal table (SNT) overflows: Compiler limitation

Example:
```
   procedure FIXD02_0M is
      type FIX is delta 0.0 range -1.0 .. 1.0;
      type FIX2 is delta -1.0 range -1.0 .. 1.0;
   begin -- FIXD02_0M
      null;
   end FIXD02_0M;
```

Fix information:
May be fixed in a future release.

KPR #: 4000089466   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
No ambiguity detected in some cases involving overloaded operators

Problem:
No ambiguity is detected in some cases involving overloaded operators in expressions with more than one operator.

As in:

```
type T is range 1 .. 10;
Z : BOOLEAN;
function "+"(X, Y : T) return BOOLEAN;
function "+"(X : BOOLEAN; Y : T) return BOOLEAN;

Z := 1 + 1 + 1;  -- Ambiguous expression
```

Fix information:
May be fixed in a future release.

KPR #: 4000089789   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Suggestion: AdaProbe EXEC.WHERE cmd should display library unit name

Problem:
The AdaProbe EXEC.WHERE command does not display the Library unit name of subprogram calls (on the call stack), but only the subprogram names, even though the documentation says it should do so.

Fix information:
To be fixed in a future release.

KPR #: 4000089797   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe crashes when library mode file omits "use <library>" as 1st line

Problem:
AdaXref crashes in library mode and issues wrong error message when the file containing library mode directives does not include the "use <library>" line as the first line.

Fix information:
May be fixed in a future release.

KPR #: 4000089870   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
CALENDAR functions TIME_OF and SPLIT return wrong results for leap year

Problem:
The CALENDAR functions TIME_OF and SPLIT return wrong results for the 31st day of months which have 31 days during a leap year. The returned date is shifted one day.

Fix information:
May be fixed in a future release.

KPR #: 4000089953   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Wrong generic subprogram parameter association for "=" and "/="

Problem:
When the "/=" operator is substituted for a generic formal "=" parameter in an instantiation, the meaning of the "/=" operator within the instantiated unit is incorrectly not the equality.

As in:

```
generic
    type T is limited private;
    with function "="(P1, P2 : T) return BOOLEAN;
function NE(X, Y : T) return BOOLEAN;
function NE(X, Y : T) return BOOLEAN is
begin
    return X /= Y;
end NE;

:
function F is new NE(INTEGER, "/=");  -- Should have effect of EQUALITY
```

Fix information:
May be fixed in a future release.

KPR #: 4000089979   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
"-C" compiler option shouldn't affect code of all generic instantiations

Problem:
The "-C" compiler option for suppressing runtime checks should be effective for the code of an inner generic instantiation only if the generic unit itself was compiled with this option. Otherwise, instantiations of generic IO packages inside units compiled with the "-C" option may behave erroneously.

Fix information:
May be fixed in a future release.

KPR #: 4000093005   Product: ADA DS. - COMMON   ADA-DSA   04.10

One-line description:
Nested generic instantiation causes compiler to abort

Problem:
```
-- This procedure shows a bug.  The compiler aborts with the following
-- message:
--
-- ****MAN H012 Compilation stopped in EXP at line 30 (at line 41 of
--     inlined or instantiated unit) due to a compiler limitation.
procedure NESTGEN is
    generic
    package FIRST is
        F: INTEGER;
        generic
```

KPR #: 4000093310 **CONTINUED**

value. HLO incorrectly removes code when the value is not altered.

Temporary solution:
Do not use the "-0" or "+0 e" options.

KPR #: 4000093328   Product: ADA DS. - COMMON   ADA-DSA   04.10

One-line description:
Wrong HLO effect when S'LAST is compared to 0, where S is a STRING param

Problem:
Wrong effect of the high level optimizer (HLO) during compilation when
S'LAST is compared to 0, where S is a STRING parameter. The case of a
null string seems to be discarded and the corresponding code is removed.

Temporary solution:
Do not use the compilation options "-0", "+0 e", or "+0 p".

KPR #: 4000093419   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Certain AdaProbe commands following an XTRA.INVOKE are not executed

Problem:
When an AdaProbe QUIT, XTRA.INVOKE, or EXEC.CONTINUE command follows an
XTRA.INVOKE command, they are not executed. Instead, AdaProbe returns
in interactive mode.

Temporary solution:
Use the XTRA.LEARN.READ and XTRA.LEARN.EXECUTE commands.

KPR #: 4000093435   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe XTRA.EDIT.FIND cmd has non-UNIX concept for regular expressions

Problem:
In the AdaProbe XTRA.EDIT.FIND command with parameter MODE => REGULAR,
the concept of a regular expression is not the same as the usual UNIX
concept; the star convention does not allow zero repetitions (there must
be at least one character).

KPR #: 4000093468   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
DISPLAY option of the AdaProbe XTRA.LEARN.EXECUTE cmd works improperly

Problem:
When using the AdaProbe XTRA.LEARN.EXECUTE command with the default
option DISPLAY=NO, the macro is incorrectly not considered as a black
box. The EXECUTE result is displayed regardless of the value of
DISPLAY.

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KPR #: 4000093005 **CONTINUED**

```
  procedure SECOND;
end FIRST;

package body FIRST is
  G: INTEGER;
  procedure SECOND is
  begin
    F := 1;
    G := 2;
  end SECOND;
begin
  F := 3;
  G := 5;
end FIRST;

package INST_FIRST is new FIRST;

procedure INST_SECOND is new FIRST.SECOND;

begin -- NESTGEN
  INST_SECOND;
end NESTGEN;
```

KPR #: 4000093161   Product: ADA DS. - COMMON   ADA-DSA   03.20

One-line description:
Abnormal HLO effect for comparison of fixed types in an IF statement

Problem:
Abnormal code elimination occurs during the high level optimizer (HLO)
phase of compilation when the "-0" or "+0 e" option is used and an IF
statement in the source includes a comparison of fixed type objects. A
warning is issued that code will be removed and it is actually removed.

Fix information:
May be fixed in a future release.

KPR #: 4000093203   Product: ADA DS. - COMMON   ADA-DSA   04.10

One-line description:
Wrong expression eval order when assigning overlapping array slices

Problem:
Wrong expression evaluation order occurs when assigning overlapping
array slices, one of them being a slice of a subprogram parameter.

KPR #: 4000093310   Product: ADA DS. - COMMON   ADA-DSA   04.10

One-line description:
Wrong HLO effect for variable tested after LOOP which may alter variable

Problem:
Wrong high level optimizer (HLO) effect occurs during compilation
(warning issued, no code generated) when the "-0" or "+0 e" option
is used and a variable is tested after a loop which may alter its

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KPR #: 4000094243 **CONTINUED**

```
    l_float: my_float;

    begin
      m_fixed := medium_fixed(short_fixed'base'first);
                              1
```
1   *EXP 6005 This value is outside the range of the target type.
            NUMERIC_ERROR will be raised here at run time.

```
      l_float := my_float(short_fixed'base'first);
                          1
```
1   *EXP 6005 This value is outside the range of the target type.
            NUMERIC_ERROR will be raised here at run time.

KPR #: 4000096149   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
unchecked conversion of task access object raised PROGRAM_ERROR

Problem:
A library level generic package has a task (or task access) parameter and elaborates the task in its body. The task access is uncheckedly converted to another task access type (with the same task profile). The generic is instantiated in a procedure. Calls to entries via the converted access value work for some time, but eventually fail with PROGRAM_ERROR.

Fix information:
May be fixed in a future release.

KPR #: 4000096164   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Unchecked conversion as a function result cannot always be returned

Problem:
A function returning a constrained subtype of an unconstrained array type cannot directly return the result of an UNCHECKED_CONVERSION to that constrained subtype, it must assign the conversion to a local and then return the local.

Fix information:
May be fixed in a future release.

KPR #: 4000096172   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Changing terminal characteristics using termio() with tasking fails

Problem:
In library package elaboration code, suspend tasking, get and save the current (original) terminal characteristics, change the terminal characteristics, change the terminal characteristics, and then

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KPR #: 4000094243   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
FIX'BASE has incorrect values for attributes 'FIRST and 'LAST

Problem:

In my examples I will use a delta value of 1.0 to simplify things. This allows the integer values used internally to represent a fixed point number to match the actual fixed point values used in the Ada source.

The first example that I will consider is the case of an 8 bit fixed point type.

```
    type short_fixed is delta 1.0 range -120.0 .. 120.0;
```

The compiler will correctly represent the values of short_fixed'first and short_fixed'last as -120.0 and 120.0. However if the source code contains a reference of the form short_fixed'base'first or short_fixed'base'last the the compiler informs you that NUMERIC_ERROR will be raised here at run time.

The compiler resisted all of the methods that I came up with for printing or assigning the value of "short_fixed'base'first". In each attempt to assign or print the value, I was told that NUMERIC_ERROR will be raised here at run time. I finally discovered that I could use a boolean expression to query the compiler about the specific value of "short_fixed'base'first". I determined that the following values were used internally by the compiler:

```
    sfbf: constant boolean := short_fixed'base'first = -129.0;   -- TRUE

    sfbl: constant boolean := short_fixed'base'last = 128.0;   -- TRUE
```

I believe that the correct values for fix'base'first and fix'base'last should be -128.0 and 127.0. In fact, as it is currently implemented the fix'base attribute returns a completely useless value, as the compiler will always try to coerce this value to the users fixed point type, and this always causes NUMERIC_ERROR to be raised. The following example illustrates this:

```
    type short_fixed is delta 1.0 range -120.0 .. 120.0;

    type medium_fixed is delta 1.0 range -32000.0 .. 32000.0;

    type my_float is digits 15;

    m_fixed: medium_fixed;
```

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KPR #: 4000096321   Product: ADA DS. - COMMON   ADA-DSA   04.34

One-line description:
Front end incorrectly folds constant mod expression.

Problem:
The front end appears to be incorrectly folding constant
mod expressions. The result looks like rem was used instead
of mod. Test program follows.

```
with TEXT_IO;
procedure JUNK1 is

  -- Test to ensure consistency between front end's constant
  -- folding of mod and evaluated mod.

  NEG11 : integer;
  POS5  : integer;
  COMPUTED_RESULT : integer;
  CONSTANT_RESULT : integer;

begin
  NEG11 := -11;
  POS5  := 5;
  CONSTANT_RESULT := -11 mod 5;
  COMPUTED_RESULT := NEG11 mod POS5;
  if CONSTANT_RESULT /= COMPUTED_RESULT then
    TEXT_IO.PUT_LINE("Failed");
    TEXT_IO.PUT_LINE("Computed result of (-11 mod 5) was => " &
                     integer'IMAGE( COMPUTED_RESULT ) );
    TEXT_IO.PUT_LINE("Front end folded constant (-11 mod 5) to => " &
                     integer'IMAGE( CONSTANT_RESULT ) );
    TEXT_IO.PUT_LINE("According to 4.5.5 of LRM, result should be => 4");
  else
    TEXT_IO.PUT_LINE("Passed");
  end if;
end JUNK1;
```

KPR #: 4000096339   Product: ADA DS. - COMMON   ADA-DSA   04.31

One-line description:
Setting TASK'STORAGE_SIZE too small not detected

Problem:
If you use a representation clause to set TASK'STORAGE_SIZE
to a value which is "too small" the error is not explicitly detected and
the program behavior becomes unpredictable.

Temporary solution:
The minimum size that can effectively be used in a TASK'STORAGE_SIZE
representation clause is 4096. Do not attempt to set the
TASK'STORAGE_SIZE value to a value smaller than this otherwise
unpredictable behavior will occur.

Fix information:
This problem will be corrected in the next release of the

                              - ADA DS. - COMMON -

KPR #: 4000096172 **CONTINUED**

resume tasking. Later, while tasking is running, attempts to
restore the original characteristics seem to "not take".

Fix information:
May be fixed in a future release.

KPR #: 4000096230   Product: ADA DS. - COMMON   ADA-DSA   04.34

One-line description:
Dynamic in-out slice of bit packed boolean array uses wrong elements

Problem:
  -- This shows a bug, in the dynamic slice marked BUG
  -- On the outbound parameter assignment, the slice
  -- adds I in twice, to make the range 6..8

  -- I believe what is happening here is that the code
  -- calculates the address of the first bit in the slice.
  -- It uses this on the inbound assignment. Then, before
  -- the outbound assigment, it adds the first index
  -- to this pointer, which is incorrect.

```
with TEXT_IO;
procedure BIT_REP is

  type BOOL_ARR is array (INTEGER range <>) of BOOLEAN;
  pragma PACK (BOOL_ARR);

  A : BOOL_ARR (0..99) := BOOL_ARR' (0..99 => FALSE);
  I, J : INTEGER;

  procedure INNER (B : in out BOOL_ARR) is
  begin
    B := not B;
  end INNER;

begin
  I := 3;
  J := 5;
  INNER (A(I..J));      -- BUG here.  Input slice is 3 .. 5, but on
                        -- outbound parm assigment, slice used is 6..8.

  for X in 0 ..10 loop
    TEXT_IO.PUT_LINE (INTEGER'IMAGE (X) & ' ' &
                      BOOLEAN'IMAGE (A (X)));
  end loop;
end BIT_REP;
```

Temporary solution:
Put the slice into a temporary object, pass the temporary, and
then copy the temporary back into the slice.

Fix information:
fixed in release A.05.35

                              - ADA DS. - COMMON -

KPR #: 400096339 **CONTINUED**

Ada/300 product.

KPR #: 400096347 Product: ADA DS. - COMMON   ADA-DSA   04.30

One-line description:
Two ada.mklibs of the same library at the same time can both fail

Problem:
If two more or less simultaneous attempts are made to CREATE a library
with the same name in a given family, both can fail. One can manage to
create the library directory but find the family locked when trying to
update the family. The other can fail to create the library directory
because it already exists. An "incomplete" library will be the result;
attempts to ERASE it will fail because it is not a valid library.

KPR #: 470820555 Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe decodes the PARAMETER string of EXEC.RESTART inconsistently

Problem:
AdaProbe "decodes" the argument string of the EXEC.RESTART command.
Due to the AdaWorld interface, this processing may make sense during
the initial call to LOAD PROGRAM (protocol.adb), but when EXEC.RESTART
is requested, the processing of the argument string should be
suppressed (although code may be needed to transform the string
to be compatible with the underlying C routine execv).

KPR #: 470822056 Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Assembly output shows misleading record alignment values

Problem:
The output produced by the Ada -S option, is perhaps misleading when
the actual representation of a record type is shown.

The record alignment value is displayed in bits whereas the user
specifies it in storage units. While the value is "right" in that it
represents the correct alignment, it is possible that a user will be
confused. It would be better if the alignment value was displayed in
the same units the user would use to specify it.

KPR #: 470822106 Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Using the ESC key in AdaProbe key binding causes an INTERNAL ERROR

Problem:
In dumb terminal mode, AdaProbe reports an INTERNAL ERROR
when using the ESC key within a key binding.

In addition, there may be problems with timing escape
sequences to differentiate between an <ESC>P or F2.

                    - ADA DS. - COMMON -

KPR #: 4700822114 Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Software line control chars used in AdaProbe key bindings cause problems

Problem:
Remove use of software line control characters from the predefined
key bindings, (that is, ENQ/ACK ^F and ^E, and XON/XOFF ^Q and ^S).

Depending on the terminal's configuration (see the v3.25 Ada Tools
Manual pg 7-8), the terminal may intercept these keys.

KPR #: 4700822122 Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Linked units removed or in locked libraries confuse AdaProbe

Problem:
For linked units either within a locked library or removed from
the library result in the following defects:

- An INTERNAL ERROR on a progression selection of an object in the
  linked unit.
- A STEP into the linked unit reports that the unit is not compiled
  with debug.
- The UNIT.LIST command (silently) fails to list the linked unit.

KPR #: 4700822130 Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
The menu cursor does not trace AdaProbe's Up_Key in dumb terminal mode

Problem:
In dumb terminal mode on 300h terminals, the menu cursor does not
trace the Up_key correctly. The menu underline and the menu cursor
appear on different but adjacent menu items making it difficult to
determine which item will be selected when entering Return_Key.

This problem also occurs when using the Down_Key to wrap from the
bottom menu item back around to the top menu item.

KPR #: 4700822148 Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe's OBJECT.EXAMINE.QUALIFICATION does not detect invalid input

Problem:
The QUALIFICATION parameter to OBJECT.EXAMINE accepts predefined
attributes like 'SIZE without a warning or error, but the object
value rather than the attribute value is displayed.

AdaProbe gives no negative feedback that his QUALIFICATION request
was ignored. This can seriously mislead the user if the OBJECT value
reported looks like a reasonable value for the requested attribute.

The general problem is that NO error checking is being done when
the QUALIFICATION parameter is not "required". OBJECT.ASSIGN

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KPR #: 470082148 **CONTINUED**

suffers from this same lack of error checking.

KPR #: 470082155   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe's XTRA.VIEW.LIST incorrectly displays all possible line types

Problem:
XTRA.VIEW.LIST displays the list of all possible line types in the
Ada language rather than ONLY those line types available in the
Ada source code of the specified window. Also, the list is displayed
in no apparent order; specifically the order is different than
Table 2-1 in the v3.25 Ada Tools manual.

KPR #: 470082163   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe Windows incorrectly repositioned when main X window is resized

Problem:
When running in X, the AdaProbe pop-up CONFIRM and ASSISTED commands
windows may be incorrectly repositioned when the main AdaProbe window
is resized with the mouse.

AdaProbe may partially reposition the CONFIRM window outside of the
visible main window. This should be prevented since AdaProbe will
refuse to process any user commands until the CONFIRM window is
cancelled.

This defect is easily duplicated on the pop-up windows generated by the
QUIT and OBJECT.ASSIGN commands.

KPR #: 470082171   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's XTRA.LEARN.TEACH uses undocumented cursor movement commands

Problem:
The cursor movement commands generated by XTRA.LEARN.TEACH need
to be added to the documentation.

KPR #: 470082189   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe doesn't detect if the program has been removed from the library

Problem:
AdaProbe does not always recognize if the program has been removed
from the Ada program library. Specific examples follow.

Compile and link a simple program with the -D option and then erase
the main unit from the library with the unit manager erase command.

1) EXEC.STEP (MODE => INTO)
AdaProbe incorrectly reports that the unit was not compiled with debug.

- ADA DS. - COMMON -

KPR #: 470082189 **CONTINUED**

The pop-up error message reads,
"Cannot STEP INTO, unit not compiled with debug, STEPPING OVER"
The program terminates as if an EXEC.CONTINUE had been entered.

2) EXEC.STEP (MODE => OVER)
AdaProbe incorrectly reports that the unit was not compiled with debug.
The pop-up error message reads,
"Cannot STEP INTO, unit not compiled with debug, STEPPING OVER"
The program terminates as if an EXEC.CONTINUE had been entered.
Note also that AdaProbe though we were executing step into.

3) UNIT.LIST

4) Executing EXEC.RESTART and continuing with the above will eventually
result in an INTERNAL TOOL ERROR.

KPR #: 470082197   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
XTRA.INVOKE within .ada.proberc results in deadlock or INTERNAL ERROR

Problem:
Use of an XTRA.INVOKE command within the AdaProbe start-up file
(.ada.proberc) results in a deadlock or INTERNAL ERROR

Nested XTRA.INVOKE commands (XTRA.INVOKE within an invoke file)
hang also.

KPR #: 470082205   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's online help should contain the same info as the manual.

Problem:
There are some inconsistencies where the on-line help facility
does not provide the "same" help information as the manual.
The on-line help text should match the documentation.

The general problem is that the documentation and the help files are
not well integrated. They should appear to the user as if they were
written and reviewed by the same person(s).

Specific problem areas should be noted here and will be fixed during
the documentation review cycles.

Areas where on-line help and documentation differ.

XTRA.VIEW.NEW.RULE
XTRA.VIEW.NEW.RULE.RULE_DEF

- ADA DS. - COMMON -

KPR #: 4700822213   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe PROGRESS may move the cursor to a non-visible source area

Problem:
Selection of a non-visible location (because of existing viewing
rules) from the PROGRESS window moves the cursor to the "area" where
the object resides. Why not refuse to move the cursor by reporting an
error or make the destination line visible?

KPR #: 4700822247   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's EXEC.STEP from a RETURN may jump to another RETURN point.

Problem:
In the presence of multiple RETURN points (either RETURN statements or
body completion points), EXEC.STEP from a return point may jump to
another return point. For example, EXEC.STEP from the LAST_STATEMENT in
the following pseudo code will result in a jump to the RETURN statement
denoted by the "RETURN #1" comment:

```
procedure X is
begin
  if (...) then
    if (...) then

      return;        -- RETURN #1
    end if;
  elsif (...) then

    LAST_STATEMENT;
  end if;
end X;
```

KPR #: 4700822254   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe INTERNAL ERROR when INVOKE file command's strin parm > 85 chars

Problem:
AdaProbe generates an INTERNAL ERROR when a string parameter of a
command within an INVOKE file is greater than 85 characters.

Fix information:
May be fixed in a future release.

KPR #: 4700822270   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe cannot OBJECT.EXAMINE/ASSIGN a separate package body object.

Problem:
AdaProbe cannot OBJECT.EXAMINE/ASSIGN a separate package body object.

Fix information:

                                              - ADA DS. - COMMON -

---

KPR #: 4700822270 **CONTINUED**

May be fixed in a future release.

KPR #: 4700822288   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe detects "Exec Error" at START_RESET.1 on EXEC.RESTART.

Problem:
Debug an Ada source that sets the exit status to a non-zero value.
When in AdaProbe, set breakpoints on one or more lines, and use
EXEC.RESTART. AdaProbe returns with the following error message:

    Exec error raised at START_RESET.1
    Status UNKNOWN

AdaProbe states the reason for this error is:
GIVE_ACCESSS_TO_SAVE_REGISTERS

To work correctly, the user must first remove all breakpoints, then
EXEC.RESTART.

KPR #: 4700822304   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
CANCEL of online HELP is inconsistent with the other AdaProbe commands

Problem:
The CANCEL_KEY "X" and right mouse button do not CANCEL AdaProbe's
online HELP facility. HELP must be cancelled with the cancel option
on the HELP menu. This is inconsistent with every other AdaProbe
command.

Attempting to cancel HELP.APROPOS with the CANCEL_KEY leaves the
HELP.APROPOS.ITEM pop-up window visible. The user must explicitly
select this window and cancel it. This is redundant, the pop-up
window should automatically be deleted when help is cancelled.

KPR #: 4700822312   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
ADACOMP generates incorrect AdaProbe line codes for IF-ELSIF statements.

Problem:
The Ada compiler generates incorrect AdaProbe line codes for IF...
ELSIF statements. Branches around ELSIF conditions are incorrectly
associated with the ELSIF condition when they should be associated
with the last statement in the previous sequence of statements.

This defect also shows up in CASE-WHEN statements with 3 or fewer
WHEN clauses. This is because these get optimized into the
equivalent IF-ELSIF sequence.

This causes the follow AdaProbe defects:

1. EXEC.STEP Defect.

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KPR #: 4700822353   Product: ADA DS. - COMMON   ADA-DSA

One-line description:
Several AdaProbe commands overwrite existing files without warning

Problem:
The following AdaProbe commands will overwrite existing files without prompting or warning the user:
   BREAK.SAVE, XTRA.LEARN.WRITE, XTRA.WINDOWS.WRITE.
This is a defect not an enhancement request.

Adding the following OVERWRITE parameter with CONFIRM as the default would correct this defect and still allow the user to overwrite files without prompting when he really wants to.
   OVERWRITE => YES | NO | APPEND | CONFIRM

KPR #: 4700822379   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's XTRA.LEARN.TEACH doesn't record mouse input

Problem:
Any commands that are input via selection with the mouse, are not recorded when using XTRA.LEARN.TEACH. There are some commands, such as switching windows, that are logically done with the mouse (X11)
When using XTRA.LEARN.TEACH, the user has to be especially careful not to use the mouse - which is a real nuicance.

KPR #: 4700822387   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's EXEC.RESTART with incomplete parameters causes INTERNAL ERROR

Problem:
AdaProbe's EXEC.RESTART command with incomplete parameters used within an XTRA.INVOKE or startup file may cause an INTERNAL ERROR. Reproduce by executing either of the following within an INVOKE or startup file:

   EXEC.RESTART ;
   EXEC.RESTART (MESSAGE => DIALOG);

KPR #: 4700822395   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe unable to restart after error termination in user program

Problem:
When a program terminates in an error, AdaProbe gives the message:

   After Continue, your program died of fatal error: Not owner

Then, if you try to EXEC.RESTART it, you get

   Exec error raised at START_RESET.1
   Reason :GIVE_ACCESS_TO_SAVED_REGISTERS,

                          - ADA DS. - COMMON -

KPR #: 4700822312 **CONTINUED**

   AdaProbe appears to EXEC.STEP on unexecuted source statements and may mislead the user.

2. BREAK.NEW Defect.

   Breakpoints on ELSIF (WHEN) statements will not be hit before the ELSIF (WHEN) condition is evaluated.

Duplicate Service Requests: 4700828327

KPR #: 4700822320   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
BREAK.RAISE (CURRENT) reacts differently after used with (INTERACTIVE)

Problem:
AdaProbe's BREAK.RAISE command does not pop up the interactive menu when first invoked. However, after the command is used interactively, the menu always appears. Furthermore, when the command is used interactively, AdaProbe echoes the current setting of the most recently selected exception, but does NOT echo the current setting of any exception set interactively, to the message window

To reproduce this, do the following:

Position cursor on an exception

BREAK.RAISE with mode CURRENT   => break set correctly. No menu
BREAK.RAISE with mode INTERACTIVE   => interactive menu pops up
BREAK.RAISE with mode CURRENT   => interactive menu now pops up.
                                       Message is echoed reflecting
                                       the current setting of the
                                       selected exception.

Now, any settings done with interactive mode ARE accepted, but no message is echoed to the message window.

KPR #: 4700822346   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's XTRA.WINDOWS.WRITE incorrectly deletes blank source lines

Problem:
AdaProbe's XTRA.WINDOWS.WRITE command deletes blank source lines.
Therefore, source line numbers no longer match the unit window nor the original source text. No XTRA.VIEW.NEW commands were executed before writing the unit window.

                          - ADA DS. - COMMON -

KPR #: 4700822395 **CONTINUED**

       Status: UNKNOWN
       System error occured (No such process)

The only work-around is to exit AdaProbe and restart it.

KPR #: 4700822403   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe may display an extra box mark when the screen is resized in X11

Problem:
AdaProbe may display an extra box mark when the screen is resized in X11

This defect can be easily demonstrated in the initial screen before opening any Ada units by clicking on the Message Window to generate the mark and then enlarging the AdaProbe screen. The box mark will be written on the new Message window and a ghost image will appear in its previous physical location on the screen.

KPR #: 4700822494   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
If AdaProbe fails to open an X window, it doesn't cleanup after itself.

Problem:
If AdaProbe is unable to open a display on the X server, it aborts without resetting the terminal to its previous state.

KPR #: 4700822510   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Use of pseudo token EOFMARK in error message could be better

Problem:
When error recovery inserts tokens before the "end of the source file" the syntax error messages mention that they were inserted before "EOFMARK". While the intended meaning can be deduced, it is perhaps not the best message for an average Ada user.

For example, this three line source file
procedure BAD is

begin

yields this compiler output
```
    3 begin
      1
    1   **SYN 1056 "NULL" followed by ";" has been inserted before
        "EOFMARK".
    2   **SYN 1056 "END" followed by ";" has been inserted before
        "EOFMARK".
    2 Errors detected.  No warning issued.  Compilation failed.
```

                          - ADA DS. - COMMON -

KPR #: 4700822510 **CONTINUED**

Fix information:
May be fixed in a future release.

KPR #: 4700822528   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
"Too many indicators" message may be unclear and can be truncated

Problem:
When the compiler encounters "too many" errors on a single line it can produce a message that says

    Too many indicators

The meaning of this message is probably not clear to the average Ada user, improving the message or changing the documentation might be appropriate.

In addition, the "Too many indicators" message is sometimes displayed with part of the message truncated. This happens when the message indicators are in a column less than the length of the "Too many indicators" message.

Fix information:
May be fixed in a future release.

KPR #: 4700822866   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
Menu selected HELP from within an AdaProbe submenu is out of context

Problem:
Within a submenu, menu selection of the HELP command is not context specific, as documented. When invoking HELP with the Help_key, AdaProbe displays help information with respect to the submenu, but a menu selection of HELP within a submenu results in main menu help information.

KPR #: 4700822874   Product: ADA DS. - COMMON   ADA-DSA   03.25

One-line description:
AdaProbe ASSIGN/EXAMINE defect with register OBJECTS in unoptimized code

Problem:
In the following program, a register tracking defect was detected by setting a breakpoint on the first PUT_LINE. EXEC.CONTINUE to the breakpoint, and then use OBJECT.ASSIGN to modify SSI. While stepping over this PUT_LINE, the original value rather than the modified value of SSI is displayed.

The program was compiled with all optimizations disabled.

    with TEXT_IO;
    use TEXT_IO;

                          - ADA DS. - COMMON -

KPR #: 4700822911 **CONTINUED**

```
package LONG_FLOAT_IO is new FLOAT_IO(LONG_FLOAT);
use LONG_FLOAT_IO;

type BYTE is range 0..255;
for BYTE'SIZE use 8;

begin
PUT_LINE("TEST START");
declare
   B0,B1,B2,B3,B4,B5,B6,B7: BYTE := 255;
begin
   PUT_LINE("Declare Block initializing 8 bytes of stack space" &
            " to 0xFF");

end;
declare
   X : LONG_FLOAT;
begin
   PUT_LINE("Now attempting to print an uninitialized floating");
   PUT_LINE("point number, that just happens to have 8 bytes of");
   PUT_LINE("0xFF stored at it's location.");
   PUT("The value of X is ");
   PUT(X);                              -- Infinite loop here.
   NEW_LINE;

end;
PUT_LINE("TEST COMPLETE");
end;
```

KPR #: 4700831057   Product: ADA DS. - COMMON   ADA-DSA   04.34

One-line description:
HLOPT incorrectly removes good code after FIXED'LARGE attribute.

Problem:

```
-- This procedure shows a bug in HLOPT.

-- On the line marked with asterisks, HLOPT thinks it will raise a
-- NUMERIC_ERROR.  HLOPT gives the error message:
-- *HLO 4084 An argument of this expression cannot be correctly
--     represented in the base type. NUMERIC_ERROR will be
--     raised at run time.

-- Unfortunately, HLOPT then removes the statements after that line,
-- to the end of block.

-- The line in question does not raise an error, but instead gets
-- the correct answer, so the net effect is HLOPT has removed good
-- code.

with TEXT_IO;
procedure FIXD09_0M is
```

- ADA DS. - COMMON -

KPR #: 4700822874 **CONTINUED**

```
procedure INTEGERS is
   SSI : SHORT_SHORT_INTEGER := SHORT_SHORT_INTEGER'FIRST;
   SI  : SHORT_INTEGER       := SHORT_INTEGER'FIRST;
   I   : INTEGER             := INTEGER'FIRST;
   N   : NATURAL             := NATURAL'FIRST;
   P   : POSITIVE            := POSITIVE'FIRST;
begin
   PUT_LINE("SSI => " & SHORT_SHORT_INTEGER'IMAGE(SSI));
   PUT_LINE("SI  => " & SHORT_INTEGER'IMAGE(SI));
   PUT_LINE("I   => " & INTEGER'IMAGE(I));
   PUT_LINE("N   => " & NATURAL'IMAGE(N));
   PUT_LINE("P   => " & POSITIVE'IMAGE(P));
end INTEGERS;
```

KPR #: 4700822882   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Inconsistent AdaProbe handling of quoted strings w/in INVOKE file.

Problem:
Command parameters of type string must be quoted differently when using
the INVOKE file mechanism (which includes the start-up file) as compared
to the assisted command facility.

For example, the equivalent to entering the following to the ARGUMENTS
parameter of the EXEC.RESTART command within the Parameter List Window:

   1 "name" 2

is the following when defining the ARGUMENTS parameter of the
EXEC.RESTART command within an invoke file:

   "1 ""name"" 2"

KPR #: 4700822957   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe's OBJECT.EXAMINE gives wrong value for some record components

Problem:
OBJECT.EXAMINE gives wrong value on a float (or long float)
component of a record with a representation clause.

Fix information:
May be fixed in a future release.

KPR #: 4700822911   Product: ADA DS. - COMMON   ADA-DSA   04.31

One-line description:
Floating point I/O with illegal number causes program to hang

Problem:
```
with TEXT_IO;
procedure_cllov00906 is
   use TEXT_IO;
```

- ADA DS. - COMMON -

CONTINUED

KPR #: 4700831057

```
    DEL : constant := 1.0/2**15;
    type FIXED_16 is delta DEL range -1.0 .. +1.0-DEL;
    LOW : FIXED_16 := -1.0;
    HI  : FIXED_16 := +1.0-DEL;
    subtype FIXED is FIXED_16 range LOW .. HI;
    F_SMALL, F_LARGE, F_DELTA, F_SAFE_SMALL, F_SAFE_LARGE :
        FIXED := 0.0;

    package F_IO is new TEXT_IO.FIXED_IO (FIXED);

begin  -- FIXD09_0M

begin
    F_SMALL := FIXED'SMALL;
    F_IO.PUT (F_SMALL); TEXT_IO.NEW_LINE;
    F_LARGE := FIXED'LARGE;                -- ****************
    F_IO.PUT (F_LARGE); TEXT_IO.NEW_LINE;
exception
    when CONSTRAINT_ERROR => TEXT_IO.PUT_LINE ("CONSTRAINT_ERROR");
    when NUMERIC_ERROR    => TEXT_IO.PUT_LINE ("NUMERIC_ERROR");
end;
    F_IO.PUT (F_LARGE); TEXT_IO.NEW_LINE;
end FIXD09_0M;
```

Temporary solution:

Do not use the high level optimizer, which means do not use "-0",
"+0 e" or "+0 p".

Note: the compiler has been changed to no longer remove the code,
but it still gives the incorrect message.

KPR #: 4700831065   Product: ADA DS. - COMMON   ADA-DSA   04.34

One-line description:
HLOPT incorrectly removes checks, causing bad results

Problem:

```
-- This procedure shows a bug in HLOPT.

-- The line marked with asterisks, without any optimization, raises
-- NUMERIC_ERROR.  This test therefore prints:
--   Starting..
--   NUMERIC_ERROR.

-- When HLOPT handles this line, it incorrectly switches off the
-- overflow check on the addition.  It also assumes that the changed
-- line will raise CONSTRAINT_ERROR, and deletes the TEXT_IO call that
-- follows it as dead code.

-- On Ada/300, with the overflow check switched off, the addition
-- operates on 16 bits, and the true sum of 32768 wraps around and
-- becomes the value -32768.  Therefore, the constraint check succeeds,
-- and no error is raised.  Nothing further is printed, since the
```

CONTINUED

KPR #: 4700831065

```
-- following line has been removed.  The test therefore prints: '
--   Starting...  This is horrible, because no exception is ever raised, and the
-- non-exception code has been removed.

-- On Ada/800, with the overflow check switched off, the addition
-- operates in 32 bits, and the true sum of 32768 stays that way, so
-- the constraint check fails, and we raise CONSTRAINT_ERROR.  The
-- test therefore prints:
--   Starting...
--   CONSTRAINT_ERROR.
-- This is not as bad, but still, HLOPT should not be changing the
-- exception raised.

with TEXT_IO;
procedure FIXD17_0M is

    -- fixed point type that maps fully into 16-bits
    DEL_16 : constant := 1.0/2**15;
    type FIXED_16 is delta DEL_16 range -1.0 .. +1.0-DEL_16;

begin  -- FIXD17_0M

    declare
        V1 : FIXED_16 := 0.50;
    begin
        TEXT_IO.PUT_LINE ("Starting...");
        V1 := V1 + 0.50;                     -- ****************
        TEXT_IO.PUT_LINE ("No exception raised - 16-bit case 1");

    exception
        when NUMERIC_ERROR =>
            TEXT_IO.PUT_LINE ("NUMERIC_ERROR");
        when CONSTRAINT_ERROR =>
            TEXT_IO.PUT_LINE ("CONSTRAINT_ERROR");
        when others =>
            TEXT_IO.PUT_LINE ("Wrong EXCEPTION raised");
    end;

end FIXD17_0M;
```

Temporary solution:

Do not use the high level optimizer, which means do not use "-0",
"+0 e" or "+0 p".

KPR #: 4700831073   Product: ADA DS. - COMMON   ADA-DSA   04.34

One-line description:
HLOPT incorrectly thinks conversion will raise error

Problem:
```
--
-- This procedure shows a bug in HLOPT.
--
```

KPR #: 4700831073 **CONTINUED**

```
-- On the line marked with asterisks, HLOPT believes that the line
-- will raise NUMERIC_ERROR.  HLOPT then attempts to delete the
-- TEXT_IO call since it thinks it is dead code.  This has been
-- disabled, but the error message still indicates that the code
-- will be removed.

-- In fact, there is no NUMERIC_ERROR in that line, since
-- 127 is in the range of the 8 bit integer.  Therefore, at
-- runtime, no error is raised.

with TEXT_IO;
procedure FIXD24_0M is

begin  -- FIXD24_0M

    declare
        type F1 is delta 0.125 range 100.0 .. 1900.0;
        V2F1 : F1 := 127.34;
        I2_8: SHORT_SHORT_INTEGER;
    begin
        I2_8 := SHORT_SHORT_INTEGER ( V2F1 );   -- ******************
        TEXT_IO.PUT_LINE (SHORT_SHORT_INTEGER'IMAGE (I2_8));
    exception
        when others =>
            TEXT_IO.PUT_LINE ("EXCEPTION RAISED");

    end;
```

Temporary solution:

Do not use the high level optimizer, which means do not use "-0",
"+0 e" or "+0 p".

Note: the compiler has been changed to no longer remove the code,
but it still gives the incorrect message.

KPR #: 4700831826   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Creation of direct access file that exists doesn't delete old file

Problem:
Creation of a direct access file by giving an existing file
name abnormally doesn't delete the old file.
Test program follows:

```
with DIRECT_IO, IO_EXCEPTIONS, TEXT_IO;
use IO_EXCEPTIONS;
procedure Jpl1046 is
    package DIR_IO is new DIRECT_IO(INTEGER);
    FILE : DIR_IO.FILE_TYPE;
    X    : INTEGER;
begin
    DIR_IO.CREATE(FILE, MODE => DIR_IO.OUT_FILE, NAME => "JPL1046.file");
```

KPR #: 4700831826 **CONTINUED**

```
    DIR_IO.WRITE(FILE, 1);
    DIR_IO.WRITE(FILE, 2);
    DIR_IO.CLOSE(FILE);
    DIR_IO.CREATE(FILE, MODE => DIR_IO.OUT_FILE, NAME => "JPL1046.file");
    DIR_IO.WRITE(FILE, 3);
    DIR_IO.CLOSE(FILE);
    DIR_IO.OPEN(FILE, MODE => DIR_IO.IN_FILE, NAME => "JPL1046.file");
    DIR_IO.READ(FILE, X);
    if X /= 3 then
        TEXT_IO.PUT_LINE("Failed, bad read");
    end if;
    begin
        DIR_IO.READ(FILE, X);
        TEXT_IO.PUT_LINE("Failed, END_ERROR not raised");
    exception
        when END_ERROR =>
            TEXT_IO.PUT_LINE("Passed, END_ERROR raised");
        when others =>
            TEXT_IO.PUT_LINE(
                "Failed, others exception than END_ERROR raised");
    end;
    DIR_IO.CLOSE(FILE);
end jpl1046;
```

Temporary solution:
Delete the existing file before creating it the second time.

KPR #: 4700831875   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
FLOAT_IO.GET on STRINGs does not raise DATA_ERROR on INTEGER literal

Problem:
FLOAT_IO.GET on STRINGs reading an INTEGER string literal
("1234") abnormally does not raise DATA_ERROR (but rather,
interprets it as 1.234E-01). A test case follows:

```
with TEXT_IO;
procedure LTD2545 is
    F : FLOAT;
    P : POSITIVE;
    package F_IO is new TEXT_IO.FLOAT_IO (FLOAT);
begin
    F_IO.GET ("1234", F, P);
    TEXT_IO.PUT ("F is ");
    F_IO.PUT (F);
    TEXT_IO.NEW_LINE;
exception
    when TEXT_IO.DATA_ERROR =>
        TEXT_IO.PUT_LINE ("DATA_ERROR raised.");
end;
```

Temporary solution:

KPR #: 4700831875 **CONTINUED**

Make sure the string is a legal float, in other words, append ".0" to the end.

KPR #: 4700831891   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Non-blocking open for a terminal can block

Problem:
If you open a terminal device in non-blocking mode, either by default in a tasking program, or with the appropriate form parameter, the open itself will block if the terminal device has full modem control and there is no "carrier detected".

This behavior defeats the purpose of non-blocking I/0 as the entire program will stop until the open completes (when a "carrier" is detected).

Temporary solution:
There is no workaround at this time other than to not open tty devices with full modem control unless you can afford to block on the open.

Fix information:
This defect has been repaired by HP in version 5.2 and later.

KPR #: 4700835306   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Bad error message for conversion of string catenation.

Problem:
Compiler gives incorrect error message, indicating argument of an explicit conversion must not be a string literal, when the argument is OK (ie, not a string literal). The test program is:

```
package ERROR_PKG is
   type ERROR_RANGE is range 1..80;
   type ERROR_MESSAGE is array (ERROR_RANGE range <>) of CHARACTER;
end ERROR_PKG;

with ERROR_PKG;
package MY_ERRORS is
   DUMMY_ERROR_MESSAGE: constant ERROR_PKG.ERROR_MESSAGE
      := ERROR_PKG.ERROR_MESSAGE ("1234567890" & "1234567890");
end MY_ERRORS;
```

The error message says:
**SEM 3125 The operand of a type conversion is not allowed to be a string literal.

Note that the operand of the conversion is a simple expression (RM 4.4), and is not a string literal, so this code should compile without error.

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KPR #: 4700835306 **CONTINUED**

Temporary solution:

The workaround is to put a string qualification on the first argument of the type conversion, ie:
```
:= ERROR_PKG.ERROR_MESSAGE (string'("1234567890") &
                            "1234567890");
```

KPR #: 4700835397   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Subunit incorrectly hides renaming declaration of derived function.

Problem:
In a subunit, we lose visibility of a renaming of a derived function. The following shows the problem:

```
package PACK1 is
   type Time_Type is record
      Seconds: INTEGER;
   end record;

   function "-" (Left: in Time_Type) return Time_Type;
end PACK1;

with PACK1;
package PACK2 is
   -- Introduce derived "-" here.
   type Time_Type is new PACK1.Time_Type;
end PACK2;

with PACK2;
procedure TEST is
   -- rename the derived subprogram
   function "-" (Left: in PACK2.Time_Type)
                 return PACK2.Time_Type
                 renames PACK2."-";
   procedure SUB_PROC is separate;
begin
   null;
end;

separate (TEST)
procedure SUB_PROC is
   T: PACK2.Time_Type;
begin
   T := -T;    -- GET ERROR MESSAGE HERE
end SUB_PROC;
```

The error message says:
** IDE 2050 The type of this expression conflicts with the type TIME_TYPE imposed by the context.

It appears that in the process of handling the separate, the compiler loses the renaming of the derived subprogram.

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KPR #: 4700835397 **CONTINUED**

Temporary solution:
Put the separate unit back inline at the point of its body stub,
or repeat the renaming declaration in the separate unit.

KPR #: 4700837781   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Library cannot be deleted with ada.rmlib when created previously

Problem:
When an ada library is created with an older version of the ADS, and
an attempt is made to use the ada.rmlib command from a newer ADS to
remove the library, the error message says the the library is not an
Ada library. This is confusing to the novice user, since it is an Ada
library, just not a current verion of an Ada library. The error
message should be more descriptive, and suggest that it might be an
older version of a library.

Temporary solution:
If the ada.rmlib command refuses to erase an Ada library, the user can
type:
   rm -rf library_name
to remove the library from the file system, and free up disk space.

Fix information:
May be fixed in a future release.

KPR #: 4700839605   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Instantation of generic in package spec. raises PROGRAM_ERROR

Problem:
-- A generic instantiated in a package specification causes
-- PROGRAM_ERROR. Test program follows:

```
package genbug is
  generic
    procedure one;      -- Info: Parameterless generic procedure.
    procedure two;      -- Info:
    procedure three is new one;   -- Error: causes PROGRAM_ERROR
end genbug;

with text_io; use text_io;
package body genbug is
  procedure one is
  begin
    put_line("one called.");
  end one;
  procedure two is      -- OK: no error here
    procedure four is new one;  -- Info: Body of generic procedure
  begin
```

KPR #: 4700839605 **CONTINUED**

```
    put_line("two called.");
    four;
  end;
end genbug;

with genbug;
with text_io; use text_io;
procedure genmain is
begin
  genbug.two;
  genbug.three;
end genmain;
```

KPR #: 4700839696   Product: ADA DS. - COMMON   ADA-DSA   04.10

One-line description:
Predefined operator may incorrectly not be hidden by a later homograph

Problem:
A predefined (derived) operator is sometimes abnormally not
hidden by a later explicit homograph operator declaration:
the predefined is still chosen when a further selected usage
is made (like P."+"). This is wrong overloading resolution.
Test program follows:

```
package pack is
type int is range 0..5;
function ">"(l,r:int) return boolean;
end pack;
---

package body pack is
function ">"(l,r:int) return boolean is
begin
  return true;
end;
end pack;

with text_io;use text_io;
with pack;
procedure SA3469 is
begin
  declare
    -- the following pack.">" is the wrong one !!
    x:boolean:=pack.">"(pack.int'(0),pack.int'(5));
    use pack;
    y:boolean:=">"(int'(0),int'(5));
    z:boolean:=int'(0) > int'(5);
  begin
    put_line(boolean'image(x));
    put_line(boolean'image(y));
    put_line(boolean'image(z));
  end;
  put_line("Test PASSED if it says : TRUE TRUE TRUE ");
end SA3469;
```

KPR #: 4700839696 **CONTINUED**

Temporary solution:
Do not use the selected notation in this case, use the simple name instead. This means that you need a "use," clause for the package.

KPR #: 4700839753   Product: ADA DS. - COMMON   ADA-DSA   04.30

One-line description:
Library manager family information can be "out of date"

Problem:
The library manager "reads in" information about the current family when it is started up and when the OTHER command is used.

It does not keep the family locked, nor "reread" the information, when performing other commands.

We will call this invocation of the library manager the "original" library manager.

Given this behavior, other users can modify the family with other instances of the library (or family) manager, and these changes would not be known to the "original" library manager.

The "original" library manager could then operate "incorrectly". This could range anywhere from "LISTing" libraries that no longer exist or have been renamed, to attempting to manipulate such libraries and failing with error messages that could be misleading to the user.

Since locking the family for the duration of a library manager invocation is probably not a good idea, at a minimum this behavior should be documented so that users are at least warned. But it would also be worthwhile to consider if there are other (longer term) solutions that would actually prevent "incorrect" library manager behavior (e.g. perhaps migrating the family/library model into a real data base management system).

KPR #: 4700839761   Product: ADA DS. - COMMON   ADA-DSA   04.30

One-line description:
Mend and Rename allowed with libraries locked, locks may be lost

Problem:
The family manager can perform a MEND or RENAME operation on a family which contains libraries which are currently locked and such locks will be destroyed by the operation.

The behavior should at least be documented for the user, so that they can take appropriate precautions. In the longer term other options should be considered so the user does not need to take such precautions (such as migrating the family/library model into a true data base management system).

KPR #: 4700840561   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Ada tasks that call interface code may behave incorrectly

Problem:

Ada tasks that call interface code may behave incorrectly if the interface code allocates too much space on the stack. Some routines in libc (e.g. sprintf) use nearly 8K of space on the stack. If an Ada task calls such a routine (either directly or indirectly) the task stack may overflow. The effect of this problem may be that the error "Global blocking situation detected" is produced. This problem is an unfortunate result of the fact that languages other than Ada do not do overflow checking on task stacks, so that when the stack overflows, it is not detected properly.

The compiler option "-W b,-t,<nnn>" may be used to change the size of the task stack. The default task stack size is 8K. Users of GKS/Ada binding and Starbase/Ada binding are advised to use stack sizes of at least 16K on the series 300 if calls are made from tasks to subprograms in the bindings. This should be documented in the manual.

Temporary solution:
The workaround for this problem is to use the binder option to the ada command to specify a larger task size:
-W b,-t,<nnn>.

For users of the GKS or Starbase bindings, it is recommended that a minimum value of 16K be used, i.e.
-W b,-t,16

Fix information:
See KPR # 4700905174. It asks to have the default task stack size increased to 32K.

Duplicate Service Requests: 4700893149

KPR #: 4700842872   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
If two people try "ada.mklib" at same time, one may not finish

Problem:
If two different people are doing ada.mklibs at the same time, even in different directories, one will proceed correctly, but the other may create an empty directory (and possibly give an error message) One has to use rmdir to get rid of the empty directory, as it isn't a valid library.

Temporary solution:
Don't try mulitple ada.mklib commands at the same time.

KPR #: 4700843672   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Compiler aborts on invalid comparison involving renamed "="

Problem:
Comparisons involving incompatible operands and renamed "=" operators
apparently cause the compiler to abort. The following source causes
such a compiler abort. The offending statement is apparently the
erroneous comparison in the body of TEST_FOO.

```
package FOO is

type TYPE_ONE is new INTEGER range 1..10;
type TYPE_TWO is new INTEGER range 2..11;

THREE : constant TYPE_ONE := 7;

function RESULT return TYPE_TWO;

end FOO;

with FOO;
procedure TEST_FOO is

    function "=" (RIGHT: FOO.TYPE_ONE; LEFT: FOO.TYPE_ONE)
        return BOOLEAN renames FOO."=";

    function "=" (RIGHT: FOO.TYPE_TWO; LEFT: FOO.TYPE_TWO)
        return BOOLEAN renames FOO."=";

begin
    -- This comparison should be illegal.
    if FOO.RESULT = FOO.THREE then
        null;
    end if;
end;
```

Temporary solution:
-- The following code gives 3 examples of workarounds for the
-- problem of renaming "=".

```
package FOO is

type TYPE_ONE is new INTEGER range 1..10;
type TYPE_TWO is new INTEGER range 2..11;

THREE : constant TYPE_ONE := 7;

function RESULT return TYPE_TWO;

end FOO;

with FOO;
procedure TEST_FOO is

    function EQ (RIGHT: FOO.TYPE_ONE; LEFT: FOO.TYPE_ONE)
```

KPR #: 4700843672 **CONTINUED**

```
        return BOOLEAN renames FOO."=";

    function EQ (RIGHT: FOO.TYPE_TWO; LEFT: FOO.TYPE_TWO)
        return BOOLEAN renames FOO."=";

    function "=" (RIGHT: FOO.TYPE_TWO; LEFT: FOO.TYPE_TWO)
        return BOOLEAN renames FOO."=";

begin

    -- The compiler can correctly reject this syntax error.
    if EQ (FOO.RESULT, FOO.THREE) then
        null;
    end if;

    -- This has just fully qualified the original "=" from
    -- package FOO. It is correctly rejected.
    if FOO."=" (FOO.RESULT, FOO.THREE) then
        null;
    end if;

    -- With correct Ada syntax, the equal can be redefined.
    if FOO.RESULT = FOO.RESULT then
        null;
    end if;

end;
```

Fix information:
This defect may be repaired in a future release.

KPR #: 4700857698 Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Listing process does not check for I/O errors, allows SIGPIPE to occur

Problem:
If you run the compiler and request either a compiler listing or an
assembly listing (or both), which will be written to stdout, and you
pipe the output into a process that terminates without reading all the
listing, the ada(1) program will report, for example

ada: Warning: Signal 13 (write on a pipe with no one to read) while
compiling test.ada

This indicates that the ada(1) program saw the compiler terminate
abnormally with a signal 13. It isn't "too wrong" for the compiler to
terminate that way, it internally cleans up on that signal, but it may
be disconcerting to the user to see that message (which is rarely seen
from any other Unix utility).

KPR #: 4700861740 **CONTINUED**

bind time the timer to be used for time slicing. The documentation
describes the three choices: 1) SIGVTALRM (the process virtual timer),
which is the default, is the same as the only timer in version 4.35, and
which manifests this problem because is does not count system time (to
which much of I/O time is charged), or 2) SIGALRM (the real time timer),
this is the timer Alsys Ada uses for time slicing, it is not tied to any
processor use time, it appears to time slice more fairly under heavy
I/O, although it can in fact be unfair as the HP-UX kernel may not even
run the Ada process during any particular real time interval, or 3)
SIGPROF (the process profile timer), counts both user and system time in
the slice, is the most fair in CPU time allocation, but may still appear
to penalize heavy I/O because some I/O time is not counted by any timer
(e.g. time from when the terminal or window driver gets the characters
to the time the user sees them).

KPR #: 4700866459   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Paths that end with .+ or ..+ may be reported by the NAME function

Problem:
If an Ada program has a directory open as a file, and that directory is
a CDF, and the program opened the directory with a path whose last
component was .+ or ..+, the NAME function will return a path with the
.+ or ..+ intact.

The NAME returned is correct, but since appearances of . and .: are
"normalized" to explicit names, so .+ and ..+ should be normalized as
well.

Temporary solution:
The NAME returned is a legal name that can be used to access the CDF
directory object, it is simply not consistent with similar names which
involve . and .: components. Such names can simply be avoided, in
favor of the explicit name without the .+ or ..+, if desired.

Fix information:
The path name resolution code was modified to properly resolve path
names that end with the component .+ or ..+ such that the result
returned by the NAME function will not end with .+ or ..+ (the returned
path will be "normalized" to reflect the effect of the .+ or the ..+).

KPR #: 4700866475   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Working directory not restored after error when it could be

Problem:
When the Ada I/O code is resolving the fully rooted path to a file (e.g.
during an OPEN or CREATE call for later use by the NAME function) it
changes the current working directory during the process. Normally it
restores the correct when directory when it is done resolving the path.
However, on rare occasions, if the path resolution fails, it sometimes
fails to restore the correct working directory. With the working
directory not correctly restored, subsequent name resolution calls tend

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KPR #: 4700857698 **CONTINUED**

Fix information:
May be fixed in a future release.

KPR #: 4700857714   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
The Unit Manager does not list desired units when library is large.

Problem:
A library containing approximately 660 units was created.
When I said:
     list (units => mac, detail => full)
the Unit Manager came back with a null response leading me to
believe that the unit MAC did not exist in the library. However,
if I said:
     list (detail => full)
the resulting list of all units in the library DID contain MAC
(spec and body).

Temporary solution:
If the unit manager doesn't find units specified with the "units=>"
parameter of the list command, don't use that parameter, and let the
unit manager default to listing all units in the library.

Fix information:
May be fixed in a future release.

KPR #: 4700861740   Product: ADA DS. - COMMON   ADA-DSA   04.31

One-line description:
Time slicing seems to be ineffective in heavy I/O situations

Problem:
If a task performs I/O it gets to to run for a longer period of time
than the time slice value would seem to indicate it should.

Cause:
The timer used to calculate time slices only counts process time spent
in actual user code, it does not count the process time spent in HP-UX
code on behalf of the process. As most I/O time is spent in HP-UX code
the time slice runs out very slowly (very little non HP-UX code is being
executed by the Ada process). Hence time slicing is "fair" for a
program containing all compute bound tasks, but "unfair" as soon as an
I/O bound task appears.

Temporary solution:
Setting a very small time slice value will produce the most "fair"
behavior, but then the process of task switching itself will begin to be
a significant part of the CPU usage and the application will get less
actual processing time.

Fix information:
HP Ada version 5.35 has been modified such that the user can specify at

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KPR #: 4700866475 **CONTINUED**

to also fail even though there is nothing actually wrong with the subsequent names (and so subsequent OPEN and CREATE calls tend to raise NAME_ERROR or USE_ERROR when in fact no such error has actually occurred). In addition, the program could easily fail without doing any subsequent OPEN or CREATE operations, because it will be operating with a different working directory than the one it believed it was in.

This is known specifically to happen when any directory in the fully rooted path of a file being OPENed or CREATED has search (x) permission for the effective user/group, but does not have read (r) permission for the effective user/group. The Ada I/O will fail to resolve the rooted path to that file, and will fail to restore the correct working directory.

Temporary solution:
Make sure that all directories in the paths to files that will be accessed by Ada programs have both read (r) and search (x) permission for the effective user/group of the users of the Ada programs.

Fix information:
This defect is repaired in HP versions 5.2 and later.

KPR #: 4700875286   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: COMPILER

One-line description:
Compiler gives incorrect error on 'SIZE clause for a private type

Problem:
```
-- The following text gets an inappropriate compiler error.
package MY_RECORDS is
    type PRIV_TYPE is private;
    type REC_TYPE is record
        FIELD_1: PRIV_TYPE;
    end record;
private
    type PRIV_TYPE is record
        FIELD_2: SHORT_SHORT_INTEGER;
    end record;
    for PRIV_TYPE'SIZE use 8;
    for REC_TYPE'SIZE use 8;        -- ERROR HERE
end MY_RECORDS;

-- The error indicates:
-- **SEM 3291 The type REC_TYPE must have a static constraint; and
-- if it has subcomponents, they too must have static constraints.
--
-- This is inappropriate, since everything is static.  The compiler
-- seems confused by the private type.
```

Temporary solution:
The workaround to this is to comment out the 'SIZE representation clause. On this compiler, the size is set by the record representation clause, and the 'SIZE clause is basically an assertion, in that it

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KPR #: 4700875286 **CONTINUED**

just gives an error if the size doesn't match what the compiler already knows.
For safety, in the package body, insert code to (at run time) take the 'SIZE attribute and compare it with the expected value. If it doesn't match, abort the program.

Another workaround would be to remove the private part, and make all types involved non-private.

Fix information:
May be fixed in a future release.

KPR #: 4700880245   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Improve Appendix F so that it describes how to use RECORD_SIZE FORM parm

Problem:
The Appendix F manual does not clearly describe the size needed for the RECORD_SIZE part of the FORM parameter. It describes in detail the structure of the data in the file, ie:
[HEADER] OBJECT [UNUSED PART]
But it never says that the RECORD_SIZE you specify must include enough space for the HEADER and the OBJECT. I thought it was enough to include space just for the OBJECT, but this is not the case.
This effects both the S300 and the S800. In the S300 manual, this information should go into section F 8.2.9.2.

Fix information:
The Reference Manual for the Ada Programming Language, Appendix F has been modified to properly describe the use of the RECORD_SIZE form parameter.

KPR #: 4700882134   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Ada compiler gives meaningless diagnostic and aborts.

Problem:
Attempting to compile a file named 'pascal_to_ada.ada', which is symbolically linked to 'pascal_to_ada.ad' results in:

ada: Path name exceeds file system length limit.
ada: pascal_to_ada.ada
ada: Please specify the actual name.

The compiler then aborts.

The filesystem is an hfs filesystem configured for long filenames.

Fix information:
The ada(1) program was corrected to properly handle symbolic links and to not produce an incorrect truncation diagnostic under the indicated conditions.

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KPR #: 4700883488   **CONTINUED**

The following test fails on Ada/300, and is assumed to fail on Ada/800 as well.

Test procedure:

1. Create a new library (it will contain only the 13 predefined link units).

2. Compile this spec:

   ```
   package UNITS is
   end UNITS;
   ```

3. Compile this body with varying values of N (i.e. various numbers of the separate procedures):

   ```
   package body UNITS is
       procedure P1 is separate;
       .
       .
       procedure PN is separate;
   begin
       null;
   end UNITS;
   ```

4. Go back to step 1 for a different value of N (i.e. always start with a new library to there are no random units in the library to perturb the results).

5. The following results are observed (note that most of the PROGRAM_ERROR failures are at varying places [except where noted], there is no obvious consistency in the tracebacks):

   1 <= N <= 1022   - Compilation succeeds

   N = 1023   - Compilation fails with no error message (or sometimes with a PROGRAM_ERROR and an empty traceback)

   N = 1024   - Compilation succeeds

   N = 1025   - Compilation fails with PROGRAM_ERROR [at varying places, but not where it is noted as occurring for N >= 4075]

   N = 1026   - Compilation fails with segmentation violation (but compiler does not report it).

   1027 <= N <= 1030 - Compilation fails with PROGRAM_ERROR [at varying places, but not where it is noted as occurring for N >= 4075]

   4075 <= N <= 4080 - Compilation fails with PROGRAM_ERROR [always in unit CTXM.INSERT_UNIT in scope

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KPR #: 4700882142   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
If the environment variable ENV is set some ada.xxx commands may fail

Problem:
Some of the ada.xxx (like ada.mklib) style commands are implemented as ksh scripts. A "feature" of ksh is that it will "source" the contents of the file which is the value of the ENV environment variable when it begins execution, even if it is executing a script (i.e. is not interactive).

Since such a file can "do" anything, it can cause the Ada command script to fail. Specifically if the file defines aliases for standard commands or performs an operation that changes the values of the positional parameters, the ada commands may fail or may perform unexpected actions.

Temporary solution:
The standard technique for working around this problem is to set up ENV so that it is only the name of a file when the shell being started is interactive. Hence ENV is empty for non-interactive invocations of ksh and so the ada.xxx commands do not cause an ENV file to be read. The traditional incantation for that, which usually resides in the file $HOME/.profile is

```
export START=$HOME/.kshrc
export ENV='${START[(_$-=1)+(_=0)-(_$-!=_${-%%*i*})]}'
```

where you define START as whatever file you do want "sourced" for interactive ksh invocations. Don't worry too much about how it works, it does (I believe it is explained in Korn's book on ksh).

You can also

1. Unset ENV before running Ada commands.

or

2. Unset ENV at the end of the file that it (ENV) specifies. The first interactive ksh will then reads ENV but no subsequent ksh will (interactive or not).

but the magic incantation above is the most convenient.

Fix information:
Supermom now sets the ENV environment variable to null before exec'ing any of the ada commands.

KPR #: 4700883488   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Compiler gives variety of incorrect errors on too many units in library

Problem:
The compilers detection of "Too many units in library" is not very good.

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KPR #: 4700883488 **CONTINUED**

RECORD_DEP_LIST at line 92]

4081 <= N <= 4085   Compilation fails with MAN H002 Compilation
                     stopped in IDE at line 4082 due to a compiler
                     limitation.

6. There are 15 "fixed" units in this test, the 13 links to the
   predefined unit and the spec and body of the package. Note that
   the MAN H002 error appears at 4081+15=4096 total units. So the
   front end apparently traps that case (although MAN H002 doesn't
   tell the user much, an error that said too many units/separates
   for library would be better).

   However, long before that, at 1023+15=1038 total units it fails to
   compile with an internal error (although 1039 units does compile
   for some reason) and then presumably for 1040 through 4095 total
   units it also fails to compile with an internal error. It would
   appear that a limit check is missing, or is present but is
   checking for a higher limit than the internals of the compiler can
   actually support.

Temporary solution:

Keep the number of units in a library low. The actual limit is not
clear, and seems to depend on a number of factors, including how many
are library units and how many are subunits.

Fix information:
This particular defect was not a problem with too many units in a
library, it was a problem with too many dependencies in a unit (in this
case "separate" dependencies but there are several kinds of dependency
overflow conditions that could cause this behavior).

The compiler was modified at revision A.05.35 to detect the overflow
condition and report an error rather than causing harm to the internal
data structures that led to the unpredictable compiler failure modes.

The error message that will now be produced will be of the form (with
the <> items filled in appropriately):

***CTX E022 The number of <kindofdependency> dependencies in the unit
            <nameofunit> exceeds the capacity of the compiler. A maximum
            of <numberofdependencies> such dependencies are supported.

KPR #: 4700887711   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: COMPILER

One-line description:
Size of record component that is mutant record cannot exceed 8192 bytes

Problem:
Compilation fails on a record with a component which is itself a

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KPR #: 4700887711 **CONTINUED**

unconstrained discriminated record with default discriminant values.
The compiler message is:
**SEM 3279 COMPILER CAPACITY EXCEEDED: The component FIELD is a record
with defaulted disciminants; the size of such a component cannot
potentially exceed 8192 storage units - Appendix F.

Temporary solution:

There is a patch available, to replace the limited version of the
ada compiler with a version that allows up to 24K records. The
patch is too big to put on the Fort Collins SE machine (hpfcse).
If you want a copy, call the HP Response Center (the standard HP
support channel). (Response Center engineers can call STD Languages
Support for details).

KPR #: 4700899278   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: TOOLS

One-line description:
ada.make incorrectly does not compile units dependent on invalid link

Problem:
Ada.make utility does not issue compilation of unit that depends on an
invalid link.
Example: you have two files, as follows: File: "main.adb"
File "packa.ads":

package A is   with A;
   I: integer;   procedure MAIN is
end A;   begin
                                             A.I := 3;
                                          end MAIN;

Create two libraries: "rel" and "dev". Compile packa.ads into
"rel". Run: "ada.make -s rel dev main.adb" and execute the
result. This makes a link from dev to rel for unit A and compiles
MAIN into dev. Next, touch packa.ads, and recompile it into "rel".
Run: "ada.make dev". The result re-establishes the link to A, but
incorrectly DOES NOT issue a compile command for MAIN.

Temporary solution:

There is a patch available for Ada/300, to replace the faulty version
of the ada.make tool with a working version. The patch is on the Fort
Collins SE machine (hpfcse) directory ~ftp/unsupp-patches/300-7.0/Ada.
The file README in that directory explains the patch. If you want a
copy, call the HP Response Center (the standard HP support channel).

KPR #: 4700900720   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: RUNTIME

One-line description:
TEXT_IO.SET_INPUT on closed file can cause STATUS_ERROR on re-OPEN

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KPR #: 4700904516   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: COMPILER

One-line description:
Compiler needs "-u" to avoid infinite loop on too many generic instances

Problem:
An attempt to compile a unit with many generic instantiations causes
compiler to get into an infinite loop and never terminate. If I use
the "-u" compiler option, it works fine, so there is an easy workaround.
The example program has 17 instantiations of DIRECT_IO with different
complex record and string types.

Temporary solution:
Use the compiler option "-u" to compile the generics as separate
compilation units. This avoids the problem.

KPR #: 4700905174   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
Change default task stack size to 32K.

Problem:
Currently, the default for the size of a task stack is 8K. This
is too small for many applications. This should be changed to 32K.

Temporary solution:
Use the binder option "-w b,-t,nnn" to over-ride the default.

KPR #: 4700905182   Product: ADA DS. - COMMON   ADA-DSA   04.35

One-line description:
AdaProbe can't display FOR variables

Problem:
AdaProbe has difficulty displaying variables introduced by the FOR
statement. This maybe because the variable is temporary, has a scope
limited to the loop, and is probably promoted to a register. In any
case AdaProbe doesn't seem to have enough information about this
variable to display it properly when you request an object examine.
The following test program was used to exhibit AdaProbes behaviour on
the 300 and 800:

```
with TEXT_IO;

procedure LOOP_VAR is

begin
  for I in 'A'..'Z' loop
    TEXT_IO.PUT_LINE ("I = " & CHARACTER'IMAGE (I));
  end loop;

  for I in 1..26 loop
    TEXT_IO.PUT_LINE ("I = " & INTEGER'IMAGE (I));
  end loop;
```

- ADA DS. - COMMON -

KPR #: 4700900720 **CONTINUED**

Problem:
If I use text_io.set_input on a closed file, then re-open it, I get
STATUS_ERROR. The following code shows the problem, it gets
STATUS_ERROR on the OPEN on the second time through the loop.

```
with text_io; use text_io;
procedure fileit is
  file_handle : file_type;
  C: character;
begin
  for I in 1..3 loop
    put_line ("IN LOOP");
    open (file => file_handle, mode => in_file, name => "arith.dat");
    set_input (file_handle);
    get (C);
    close (file_handle);
    set_input (standard_input);
  end loop;
end fileit;
```

Temporary solution:
One possible workaround is change the order of the close/set_input to
be "set_input (standard_input);" followed by "close (file_handle);".
If you make this change, it works fine.

Fix information:
The bug is fixed 5.32 compiler.

KPR #: 4700903591   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: RUNTIME

One-line description:
Input from FIFO pipes incorrectly reads to far ahead, causing blocking

Problem:
Using TEXT_IO to read a FIFO pipe with FORM=>"NON_BLOCKING", it
incorrectly attempts to read part of the next line before processing
the current line. If you have one program writing lines to the pipe,
and another reading lines, they get out of sync, because the reader
tries to read too far. Should treat pipes like terminals, and not read
ahead past the end of the line.

Temporary solution:
This only occurs with TEXT_IO, so if the data is such that you can
use SEQUENTIAL_IO, the problem will not occur.

Fix information:
I modified "bufferio.adb", "filmgtio.adb" and "textio.adb" to
treat a file associated with a FIFO special file the same as
a terminal file. This fixes the problem that was associated
with the read-ahead causing a blocking on a FIFO but not on a
terminal.

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Computer Museum

KPR #: 4700905182 **CONTINUED**

end LOOP_VAR;

If you set a break point on the first TEXT_IO statement and try to Object Examine I, AdaProbe displays I => <Unknown>. This happens on both the 300 and the 800. If you reset your break point to the second TEXT_IO and Object Examine I again you will see I => 0 on the 300 and the correct value on the 800. I have not tried any other types of loop variables such as integer subtypes, derived types and the like.

Temporary solution:
In the program being debugged, copy the "for" variable into a regular variable at the beginning of the loop. Then in ada.probe, examine the regular variable.

KPR #: 4700910489 Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: COMPILER

One-line description:
Bad error message on library exceeding max size of 33,553,408 bytes

Problem:
If an Ada library exceeds a size of 33553408 bytes, the compiler gives strange error messages, of the form:
   *** MAN H004 Compilation stopped in SEM due to a compiler limitation.
   No line number is available.

Temporary solution:

Instead of one big library, split your application into multiple libraries. You can have the necessary links built automatically using the "ada.make" command.

Fix information:
The root 5 based product has been enhanced so that the library file size can grow larger than 33,553,408 bytes.

Theoretically a library can hold 4096 units and the information stored in the library for any single unit can be at most 67,108,864 bytes, for a maximum library size of 274,877,906,944 bytes (plus library and unit header overhead).

However, the library file remains limited to a maximum size of 2,147,483,647 bytes by the file system.

KPR #: 4700929570 Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: COMPILER

One-line description:
Error not detected when subunit matches wrong overloaded subprogram

Problem:
The following program should produce a compiler error, since the subunit does not match the profile of its stub. However, the compiler does not

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KPR #: 4700929570 **CONTINUED**

detect an error, and at runtime, execution hangs:

```
package EXAMPLE is
    function BUG return BOOLEAN;
    function BUG return INTEGER;
end EXAMPLE;

package body EXAMPLE is
    function BUG return BOOLEAN is separate;
    function BUG return INTEGER is
    begin
        return 0;
    end BUG;
end EXAMPLE;

separate (EXAMPLE)
function BUG return INTEGER is
begin
    return 0;
end BUG;

with EXAMPLE;
procedure MAIN is
begin
    null;    -- the main program does nothing
end MAIN;
```

Fix information:
May be fixed in a future release.

KPR #: 5000535146 Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: TOOLS

One-line description:
ada.mklib needs read&search perms on all dirs in paths of libs in family

Problem:

Ada.mklib will fail, unless it has read (r) and search (x) permissions on all directories involved in the full path names of all libraries in the family specified (or the default public family, if used).

Temporary solution:
Make sure that all directories in the paths to libraries in the family have both read (r) and search (x) permission for the effective user/group of the ada.mklib command.

To find the list of libraries in the family, use the "ada.lslib" command.

Fix information:
The algorithm used to create Ada libraries has been modified such that it does not need to examine the directory paths to other libraries in the same family, when creating a new library in that family. Hence a

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KPR #: 5000535146 **CONTINUED**

user creating a library in a family no longer needs access to any other
libraries already present in the family (nor do they need access to any
of the directories in the paths to any of those other libraries).

KPR #: 5000558130   Product: ADA DS. - COMMON   ADA-DSA   04.35

Keywords: RUNTIME

One-line description:
FLOAT_IO.PUT incorrectly raises LAYOUT_ERROR on large negative number.

Problem:
This problem can be shown by the following:

```
with text_io; use text_io;
procedure test is
   package F_IO is new float_io (float);
   a: float := -2.0;
begin
   -- This works fine for awhile, then aborts when A is -20000000.0
   -- According to LRM 14.3.8, this should work.
   loop
      F_IO.PUT (A, fore => 2, aft => 2, exp => 0);
      new_line;
      A := A * 10.0;
   end loop;
end test;
```

Temporary solution:
Change the value of the parameter "fore" to be 3, and the problem
will not occur.

Fix information:
Increased the image string length to print large negative numbers as the
original string length was not large enough.

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KPR #: 4700890939   Product: ADA SOFTBENCH COMMON ADA-SBA   00.00

One-line description:
Resizing of FLU Managers may corrupt window layout

Problem:
After reducing the window size of a Family, Library, or Unit
Manager such that window regions are "lost", this state is not
corrected once you enlarge to the original size.

Cause:
In the FLU encapsulations, each vertical row of widgets resides
in its own pane. We wanted to have sashes only on those panes
that it makes sense to resize (the list panes and results area
panes). The only way to do this is to set the Min and Max
resources to the same value on the pane that you do not want to
have a sash. Unfortunately, the Encapsulator team found a bug
(I believe it was in the X toolkit) that caused something to go
wrong when a pane was sized very small. They implemented a
workaround in the Encapsulator, which is to always set the value
of Min to 3. Once this has been set, there is no way to change
the value from the encapsulation.

Because of this, it is not possible to selectively use sashes
in an Encapsulation. We decided that rather than have many
sashes, most of which were useless, we would have no sashes at
all and let the user set the size of the list and results area
panes in their .Xdefaults file. They can still change the size
of the bottom pane (the "results" area) interactively. We
later found, however, that if the window is made very small
(for example, so that all panes are reduced to their minimum
size), that when the window is later expanded panes are not
reasonably vertically resized. Since there are no sashes, the
user cannot correct this situation.

Temporary solution:
There is currently no workaround for this problem.

Fix information:
This problem may be corrected in a future release.

KPR #: 4700890947   Product: ADA SOFTBENCH COMMON ADA-SBA   00.00

One-line description:
FLU encapsulations may not run on remote data

Problem:
The Family, Library, and Unit Managers do not start when the
host context is set to a remote machine.

Cause:

- ADA SOFTBENCH COMMON -

KPR #: 4700890947 **CONTINUED**

The problem is due to differences in how "encapsulate" searches for the .edl file and how "encaprun" searches for the .cedl file. "encaprun" is doing it wrong. In addition, it seems that it is doing it wrong in such a way that the -searchost and -searchpath command line options have no effect.

Temporary solution:
The workaround is to start the tool with data context set to the local machine, and then change context to the remote machine using the "File: Set Context" menu.

Fix information:
This problem will be fixed in the next release.

KPR #: 4700890962   Product: ADA SOFTBENCH COMMON ADA-SBA   00.00

One-line description:
Dev. Mgr. incorrectly identifies Ada Static Analysis files as executable

Problem:
Static Analysis File Sets for Ada sources have the file name pattern:
    * .ad?q

Development Manager should recognize these files as Static Data files and not as executables. This error prevents the user from selecting the Show Functions action on an Ada Static Analysis file type.

In particular, it would be nice if when such a file was selected, the Static Analyzer were invoked on this file.

Temporary solution:
In order to perform Static Analysis on Ada source files within a directory, do the following:

a) Choose the desired source file which is to be analyzed.
b) Select the menu item "Actions: Show Functions".

or:
--

a) Choose the menu item "Directory: Static Analysis->Current Directory"

Using either of these methods enables you to statically analyze your Ada source files.

Fix information:
This defect may be fixed in the next release.

KPR #: 4700890970   Product: ADA SOFTBENCH COMMON ADA-SBA   00.00

One-line description:
Program Builder may not recognize references to Ada Ref. Manual

Problem:

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KPR #: 4700890970 **CONTINUED**

Compilation errors when compiling an Ada source file are normally selectable for browsing by the user. If the error contains a reference to the Ada Language Reference Manual, selecting such an error results in the Reference Manual Browser being invoked and positioned at the appropriate section.

When two or more errors occur on the same line, and the first one contains a reference to the Language Reference Manual, Program Builder does not detect this reference.

Temporary solution:
There is no workaround to this problem.

Fix information:
This defect may be fixed at the next release.

- ADA SOFTBENCH COMMON -

KPR #: 470026735   Product: COBOL/HP-UX S300   35322B   01.06

One-line description:
repeated calls to X"82" consume memory

Problem:
Repeated calls to X"<anything>" consumes memory.

Cause:
Not all memory is being properly released

Fix information:
Fixed in B.02.01

Signed off 05/25/90 in release B02.01

KPR #: 4700879395   Product: COBOL/HP-UX S300   35322B   01.08

One-line description:
bcheck does not work with lowercase names

Problem:
9/28) problem caused by bcheck checking for a file extension of .dat,
which used to be used for the data portion of the file. (now it has no
extension.)

KPR #: 4700880062   Product: COBOL/HP-UX S300   35322B   01.08

One-line description:
Numeric move does not move correct value

Problem:
Moving a numeric value from a data item with usage comp to a data item
with usage display produces the wrong value. This problem appears in
native code programs.

Fix information:
In order to receive this fix: All native code must be recompiled

KPR #: 4700884635   Product: COBOL/HP-UX S300   35322B   01.08

One-line description:
Signed numeric decimal move does not move the correct value

Problem:
Moving a numeric value from a data item declared as signed numeric
with an assumed decimal point to a signed numeric data item without
a decimal point moves the wrong value. This problem appears in
native code programs.

KPR #: 5000522854   Product: COBOL/HP-UX S300   35322B   01.06

One-line description:
Compiler option ODOSLIDE causes native code program to abort

Problem:
Compiler option ODOSLIDE causes error 153 "Subscript out of

- COBOL/HP-UX S300 -

KPR #: 5000195735   Product: AGP/DGL - MU   98600B   06.50

One-line description:
ZIDRW incorrectly interprets current window coordinates

Problem:
Customer found that the zidrw routine, in DGL, does not work properly
on a s200 running hpux 5.1. zidrw does not seem to correctly interpret
the current window coordinates, as specified with a zwind call. The
problem can be worked around by using zdraw instead.

Temporary solution:
Use zdraw.
Update S200 to 5.22 AGP/DGL

Fix information:
Will not be fixed.

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KPR #: 4000033357   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
File search indexes allow dup. names and leading/embedded spaces.

Problem:
      File search indexes allow dup. names and leading/embedded spaces.
      Detailed instructions for duplicating problem:
      It is possible to create two (or more) search indexes with the same
name. It should work the same way as code indexes (i.e. second create
should put user in existing index with same name.)
      There is a separate bug that applies to all three types of file index
browsers. It is legal to create a browser with a name that is all
blanks, but the browser commands for moving up and down in a list of
indexes will ignore blank lines even when those lines are for normal
items. There should probably be a requirement that index names
contain at least one printing character.

Fix information:
Will not fix.

KPR #: 4000033373   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Find file on read protected file creates an empty buf. & new file msg.

Problem:
      Find File on read protected file creates an empty buffer & new file
message.
      Detailed instructions for duplicating problem:
      When the Find File command (C-X C-F) is given for a file that is read
protected, an error message should be displayed. Instead, the command
treats this case the same as an attempt to read a non-existent file,
by creating an empty buffer and displaying a "(New File)" warning
message.

Fix information:
Will not fix.

KPR #: 4000033381   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Left locator button clicks above browser items beep; clicks below don't.

Problem:
      Left locator button clicks above browser items beep; clicks below
don't.
      Detailed instructions for duplicating problem:
      Left locator clicks which attempt to move the browser current item
highlight above the pickable browser areas cause the top line to be
highlighted and beep. Clicks below the pickable browser area high-

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KPR #: 5000522854 **CONTINUED**

Range" when used with an OCCURS clause.
Only occurs with native code, intermediate code is correct.

Fix information:
In order to receive this fix: All native code must be recompiled
                              All code must be re-linked
                              A new animator must be used

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KPR #: 4000033381 **CONTINUED**

light the bottom line but do not beep. A second click in either case
does not browse but continues to beep or not beep. This is not
consistent.

Fix information:
Will not fix.

KPR #: 4000033399   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Command line of editing buffer sometimes erroneously shows C-M-L.

Problem:
Command line of editing buffer sometimes erroneously shows C-M-L .
Detailed instructions for duplicating problem:
In an Editing buffer, sometimes the promptline contains C-M-L to
Quit when C-M-L results in a no previous location message. This can
be caused by directly browsing a series of buffers then deleting
one of the previously browsed buffers.

Fix information:
Will not fix.

KPR #: 4000033407   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
It's not possible to customize (bind keys to commands) all keyboard keys

Problem:
It is not possible to customize (bind keys to commands) all keyboard
keys, since shifted numberpad alpha keys have same key code as main
keyboard keys.
Detailed instructions for duplicating problem:
When running Nmode in a HPWindows/9000 fastalpha graphics window,
the following applies:

Keys in the numberpad region of the ITF keyboard can be divided into
2 groups:
  1. the 4 unlabeled function keys plus Enter and Tab
  2. all the others

Keys in group 2 (above) exhibit this bug:

The cause of the bug is in the window product.

Fix information:
Will not fix.

KPR #: 4000033415   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Buffers can be accidentally killed if they have long filenames.

Problem:
When buffer name is > 120 characters long, Selecting NO to popup
menu confirmation of KILL BUFFER will kill buffer.
Detailed instructions for duplicating problem:
Rename a buffer so name is > 120 chars. Use popup menu in buffer
browser to kill it. Confirmation popup menu has title missing!
Select NO item. Buffer gets deleted anyway!
Workaround:
Shorten the buffer name or use the keyboard.

Fix information:
May be corrected in a future release.

KPR #: 4000033423   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
With term0 window, shift left/right arrow key's not decoded

Problem:
In Term0, shift left/right arrow key's escape sequences are not
decoded, causing Nmode to enter garbage into a text buffer when
pressed.
Detailed instructions for duplicating problem:
Term0 sends ESC & r l L for left and ESC & r l R for right.
Pressing these keys in a text buffer results in everything but the
ESC being stored in the buffer.

Fix information:
Will not fix

KPR #: 4000033431   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Undocumented behavior with cmd-argument to C-X 0.

Problem:
Undocumented behavior with cmd-argument to C-X 0.
The command argument selects the next pane in sequence and displays
in it the same buffer that is displayed in the pane just left,
independent of the sign or magnitude of the command argument given.

Fix information:
Will not fix.

KPR #: 400003449   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Command functions do not follow M-X conventions.

Problem:
There are many command functions in the system which do not follow the convention of -command at the end and match the M-X command name.

Fix information:
Will not fix.

KPR #: 400003456   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
LISP specific commands do not completely parse all CL systaxes.

Problem:
The LISP specific commands (eg move-forward-form, kill-next-form, indentation) don't completely parse all Common Lisp syntax, eg. all reader macros and reader syntax for arrays, etc. For example, parenthesis matching in Lisp Mode isn't smart enough to know about all the Common Lisp escapes.
Detailed instructions for duplicating problem:
The escape characters that NMODE doesn't consider when matching parens are "|" and the combination of "#|" and "|#". For instance, on the line

(|foo)| x)

the right paren in the symbol foo) gets matched with the opening left paren.

Similarly, in

(foo #| This is a comment) |# x)

the right paren in the comment gets matched with the opening left paren.

These escape characters also need to be considered in other NMODE commands, such as the ones for killing forms.

Fix information:
May be corrected in a future release.

KPR #: 400003464   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
M-) command isn't consistent with indentation done by other commands.

KPR #: 400003464 **CONTINUED**

Problem:
M-) command isn't consistent with indentation done by other commands.
Detailed instructions for duplicating problem:
The M-) command works weird. It's very useful for breaking up long one-liners (like macroexpansions, etc.), but ... For example, if you M-) this line repeatedly,

(let ((a b) (c d)) (cond (((a) b) ((c) d) (t e))))

..you get...

(let ((a b)
      (c d)
) (cond (((a)
b)
((c)
d)
(t e)
)
)
)

Fix information:
Will not fix.

KPR #: 400003472   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
White space at the end of a sentence is treated as another sentence.

Problem:
Forward sentence will treat trailing white space at the end of paragraph as a sentence.

Fix information:
Will not fix.

KPR #: 400003480   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
In auto fill, + text modes Nmode doesn't keep left margin in view.

Problem:
In auto fill, text modes, Nmode doesn't try to keep left margin in view.
Detailed instructions for duplicating problem:
If I'm in text mode, auto fill, and I have a long word at the end of a line which forces the left margin out of view, auto fill will force the word onto the next line. The problem is, as long as point is visible, the window will not be rescrolled to show the left margin.

CONTINUED

Fix information:
Will not fix.

KPR #: 4000033498   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Receiving input from more than 27 file descriptors causes error.

Problem:
Receiving input from more than 27 file descriptors causes error.
Detailed instructions for duplicating problem:
If you reconfigure your HP-UX kernel such that it supports more that
20 open file descriptors per process and increase the process per
user count, you can create enough windows and HP-UX Access shell-
buffers to cause Nmode's input loop to fail. It isn't capable of
received input from a file descriptor greater than 27. The easiest
way to clean up the situation is to exit and reenter Nmode or kill
off any extra windows or shells.

Fix information:
Will not fix.

KPR #: 4000033506   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Hitting [Break] while creating nmode shells causes loss of shell access.

Problem:
Hitting the [Break] key while creating Nmode shells cause loss of
all future access to that shell during the current Nmode session.
Detailed instructions for duplicating problem:
If you hit the BREAK key while creating shells, in the most likely
case it will just cause lack of access to that shell and may leave an
extra (empty) buffer lying around. Because it cannot deallocate the
broken resource, it also means you will have one less shell available
for use (your total limit decreases).

Fix information:
Will not fix.

KPR #: 4000033514   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
HP-UX command softkey is confusing and may cause garbage.

Problem:
HP-UX Command softkey is confusing and may cause garbage screen when
used in terminal mode or without HPwindows/9000 when the HP-UX Access

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KPR #: 4000033514   **CONTINUED**

Facility has not been loaded.
Detailed instructions for duplicating problem:
After invoking Nmode as "nmode -t hp" or invoking it without
HPwindows/ 9000, and without loading the HP-UX Access facility, hit
HP-UX Command softkey. Answer the prompt with "date" RETURN.
HP-UX executes date, and sends the results to stdout which in the
window case is the term0 window and the other case is wherever the
cursor was on the screen before Nmode was invoked. The output is
sometimes difficult to read (it disappears with the next screen
refresh) and sometimes creates a messy screen until the next refresh.
Workaround:
When using Nmode without HPWindows/9000 or as a terminal, load the
HP-UX Access facility first. Output will then be integrated into the
appropriate Nmode buffer.

Fix information:
Will not fix.

KPR #: 4000033522   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
C-M-Return doesn't work in the middle of a shell-buffer.

Problem:
C-M-Return (HP-UX Execute and Delete Command) doesn't work in the
middle of a shell-buffer, only at the bottom.
Detailed instructions for duplicating problem:
The key sequence C-M-Return, the HP-UX Execute and Delete command,
will only work if you are typing on the last line of a shell-buffer.
If used elsewhere, it may delete your last line if you have specified
use of the prompt-end-character option.

Fix information:
Will not fix.

KPR #: 4000033530   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Shell buffers are not correctly named according to options.

Problem:
In the HP-UX Options browser: if you specify an existing buffer for
the shell-buffer name option, creating a shell-buffer will make a new
buffer based on the system's default name for shell-buffers
(HP-UX.SHELL) instead of based on the name you specified.
Detailed instructions for duplicating problem:
Currently, if you specify a name of a buffer that already exists,
the algorithm will use the default name (HP-UX.SHELL) as a base to
determining the name of the new buffer to create. It should instead
use the name you specify at least as the base name of the new buffer.
For example, if you specify "SHELL" for the name and a buffer named

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KPR #: 4000033530

SHELL already exists, it should create a new shell-buffer named SHELL-1 and not HP-UX.shell-?.
Workaround:
Always specify a buffer that doesn't already exist, or use the default name, or use M-X Create Shell-Buffer which allows you to specify the name.

Fix information:
Will not fix.

KPR #: 4000033548   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Keyboard and locator inputs not always processed in order entered.

Problem:
Keyboard and locator inputs not always processed in order entered.
Detailed instructions for duplicating problem:
When keyboard and locator (mouse) inputs are both queued up, the inputs may not be processed by the system in the same order that they were entered. This is because the keyboard queue is emptied before the locator queue is read.

Fix information:
Will not fix.

KPR #: 4000033555   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Locator buttons may be missed during switching of windows.

Problem:
Locator buttons may be missed during switching of windows.
Detailed instructions for duplicating problem:
If you do the following sequence as fast as possible, nmode misses the right button click:
  select a different nmode window
  bring up the Windows/9000 menu (left button on desktop)
  abort it
  try and bring up the nmode menu
The button is only missed if pressed during the window switch.
Workaround:
Don't give commands while the windowing system is switching windows.

Fix information:
Will not fix.

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KPR #: 4000033563   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Mouse clicks can cause keystrokes to be ignored.

Problem:
In rare cases, mouse clicks occurring simultaneously with keystrokes will cause the keystrokes to be ignored.
Detailed instructions for duplicating problem:
If you have more than one Nmode window and try to do something like select the hidden window, then sometimes your subsequent keystrokes have no effect and other times (eg. when typing into a buffer) they will be processed but also force the hidden window to the top.

If you attempt to select a window at approximately the same time you hit a key on the keyboard with all of the following true:
- the mouse selection signal is actually "heard" before the key stroke
- you do this at "precisely" the right moment (at a time that the input path cannot detect it)
you can manage to get Nmode in a state whereby it is waiting for input from the "wrong" window (the fact that you have selected the other window has not yet been recognized).

This behavior is due to the single process nature of Nmode, and that signal events (the action as opposed to the recognition) are queued for processing in a synchronous manner. There exist critical sections in the input path, during which a signal could occur, that will not be processed immediately, causing Nmode to believe it is reading from the wrong device. The requirements necessary to produce such behavior occur within a very narrow window of time and are extremely hard to reproduce.
Checks have been added wherever possible.
Workaround:
If you get into such a situation you can just hit another mouse click to recover. Your data will not be lost.

Fix information:
Will not fix.

KPR #: 4000033571   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Changing C block begin/end chars in C Edit Options breaks C-M-F/B.

Problem:
Changing C block begin/end chars in C Edit Options breaks C-M-F/B.
Detailed instructions for duplicating problem:
In C Edit Options, changing the block begin/end characters causes M-X Move Forward/Backward Block (C-M-F, C-M-B) to not match the new character strings.

Fix information:

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KPR #: 4000033605 **CONTINUED**

Detailed instructions for duplicating problem:
If the View One Pane command is give while in the NMODE tutorials,
the two pane configuration of the tutorial cannot be restored. Also,
the NMODE tutorial does not allow a recursive call to itself.
Workaround:
Leave the tutorial via the f8 command, then return to the tutorial,
or use the f4 softkey to return to the Tutor browser.

Fix information:
Will not fix.

KPR #: 4000033613 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Where-Am-I for Directories specifies "directories" instead of files.

Problem:
Where-Am-I documentation for Directories specifies "directories"
where "files" should be specified.
Detailed instructions for duplicating problem:
Get into a directory browser. Do a Help Where-Am-I. Look at the
command list under Utility. Notice that for Move, Copy and Rename
the explanation speaks of directories rather than files. Should be
only files or both files and directories.

Fix information:
May be corrected in a future release.

KPR #: 4000033621 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Help Where-I-Am lists a non-existant function.

Problem:
Help Where-Am-I for Error index has an error under Options: it lists
a non-existent function.
Detailed instructions for duplicating problem:
Get into an error index. Do a Help Where-Am-I. Look down in the
command list under Options. You will see that it lists a Lisp
sub command. This command does not exist.

Fix information:
May be corrected in a future release.

KPR #: 4000033639 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Tutorial keys are changed if a breakloop entered while in the tutorial.

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KPR #: 4000033571 **CONTINUED**

Will not fix.

KPR #: 4000033589 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Template placeholders can be lost during template edit when CR inserted.

Problem:
Template placeholders can be lost during template edit when CR
inserted.
Detailed instructions for duplicating problem:
While filling in a template in C, Pascal or Fortran mode, inserting
a CR before a template in the same line causes the system to lose
track of the remaining placeholders in the template. A Good example
is the C Case Template. While positioned on the first placeholder,
insert a CR, and subseqent placeholders will be ignored.

Fix information:
May be corrected in a future release.

KPR #: 4000033597 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
BREAK key typed during load of tutor disables Load command for tutorial.

Problem:
BREAK key typed during load of tutor disables Load command for
tutorial.
Detailed instructions for duplicating problem:
If the break key is typed during loading of the NMODE tutorials,
further loading attempts of the tutorial will be ignored. When
an attempt is made, a warning is displayed in the output buffer.
Workaround:
The current work around is to continue loading via the
Lisp-C command instead of quitting from the break loop(s). If
beyond this point, Nmode must be brought down and brought back
up in order to load the tutorial.

Fix information:
Will not fix.

KPR #: 4000033605 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
The Restore key in the NMODE tutorial does not restore all situations.

Problem:
The Restore key in the NMODE tutorial does not restore all
situations.

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KPR #: 4000033639 **CONTINUED**

Problem:
Tutorial keys are changed if a breakloop entered while in the
tutorial.
Detailed instructions for duplicating problem:
When a break loop is entered, the four right tutorial keys are
overwritten with no way to restore them.
Workaround:
Work around for this problem is to execute the command "M-X Leave
Tutor Module" or press the List Tutors softkey to return to the
Tutorial browser. The keys will be replaced.

Fix information:
Will not fix.

KPR #: 4000033647   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Evaluating a form in customize tutorial will overwrite the instructions.

Problem:
Evaluating a form in Customize tutorial will overwrite the
instructions.
Detailed instructions for duplicating problem:
Evaluating a form in Customize tutorial will bring up the output
buffer over the tutorial instruction text.
Workaround:
The problem is that the any output will overwrite the instruction
text. The workaround for this problem is to use C-X C-E command to
evaluate the needed forms instead of evaluating the forms in the
.nmoderc file. If the user is passed this point already, and the
output has already overwritten the instructions, use the command
C-X O to go to the instruction pane and execute C-M-L to remove the
output buffer. Then return to the practice area (C-X 0).

Fix information:
Will not fix.

KPR #: 4000033654   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Online help for C-] L does not describe fully what the command does.

Problem:
Online help documentation for C-] L does not describe fully what the
command does.
Detailed instructions for duplicating problem:
Look at the description of the C-] L command.   The command is
M-X Exit To Lisp.
Workaround:
In reality Nmode retains it state and you can come back right to
where you left off. Think of this command as an "Exit to Lisp

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KPR #: 4000033654 **CONTINUED**

Listener".

Fix information:
Will not fix.

KPR #: 4000033662   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Documentation of Defuns in any of the online-help info needs futher desc

Problem:
The documentation of Defuns in any of the online-help information
needs further description.
Detailed instructions for duplicating problem:
The on line documentation for Lisp-D is incorrect. It states that
the current defun is executed when in reality it is only the
current top level form (ie. open paren in col. one) that is
executed.
The documentation as well as some of the functionality of NMODE (e.g.
code browsers for lisp source files) considers top level functions as
forms that starts in column 1.

Fix information:
Will not fix.

KPR #: 4000033670   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Help frame on Upcase-digit needs description of effective range.

Problem:
Help frame on Upcase-digit needs description of effective range.
Detailed instructions for duplicating problem:
Upcase-digit-command works only if at least one digit is found from
the start of last line to the point.

Fix information:
Will not fix.

KPR #: 4000033688   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Softkeys can not be used with prefixed commands.

Problem:
Softkeys can not be used with prefixed commands eg C-X, M-X, Help
Detailed instructions for duplicating problem:
Bring up nkeys.
Hit the HELP softkey key. That works great. You see the Help menu.

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KPR #: 4000033720   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Lisp L gets errors when run from background.

Problem:
Lisp L gets errors when run from background.

Temporary solution:
Do not run NMODE from the background.

Fix information:
Will not fix

KPR #: 4000033902   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Package objects are accessible as normal vectors or arrays.

Problem:
package objects are accessible as normal vectors or arrays
Detailed instructions for duplicating problem:
(in-package'abc)
(aref'abc 0)
returns a value, not an error

Fix information:
Will not fix.

KPR #: 4000033910   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Lamdas whose compiled code exceeds 32K bytes will not work.

Problem:
Lamdas whose compiled code exceeds 32K bytes will not work.
Detailed instructions for duplicating problem:
Create a very large lambda and try to compile it.
Workaround:
Keep object code size less than 32K by breaking functions into
pieces.

Fix information:
May be corrected in a future release.

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KPR #: 4000033688 **CONTINUED**

Hit the HELP softkey again. The result is an Undefined command.

Fix information:
Will not fix.

KPR #: 4000033696   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Nmode -t Create window softkey exists even if window support does not.

Problem:
nmode -t Create Window softkey exists even if window support is not
available (e.g. from a terminal).

Fix information:
May be corrected in a future release.

KPR #: 4000033704   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Softkeys for original window are reset.

Problem:
The softkeys for the original window that nmode starts from are
reset.
Detailed instructions for duplicating problem:
Define softkeys while in a window. Startup nmode. Stop nmode. The
softkeys in the window where the nmode command was entered have been
reprogramed to produce ESC \ n where n is a digit corresponding to
the key.

Fix information:
Will not fix.

KPR #: 4000033712   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Windows in input mode cannot be killed with popup menu.

Problem:
Window is not killed when using HPWindows/9000 popup to kill, and
window is in input mode.
Workaround:
When this occurs, use the Kill Window M-X command to kill the
window. The HPWindows/9000 popup menu will indicate that the window
has already been killed so it cannot be killed again with the popup.

Fix information:
May be corrected in a future release.

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KPR #: 400003928 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
READ-CHAR-NO-HANG does not work with device files.

Problem:
READ-CHAR-NO-HANG does not work with device files.
Detailed instructions for duplicating problem:
If you open a stream to a device file and then try to do a
READ-CHAR-NO-HANG, it will hang if there is no data available.
Workaround:
Make the call to READ-CHAR-NO-HANG conditional upon a non-NIL value
returned by a call to LISTEN to the stream.

Fix information:
Will not fix.

KPR #: 400003936 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Bare CL always prints system prompt even when user code doing READ.

Problem:
Bare CL always prints system prompt even when user code doing READ
Detailed instructions for duplicating problem:
Bring up CL, not NMODE.
Write and execute a function which contains a READ. The standard
prompt string will appear.

Fix information:
Will not fix.

KPR #: 400003944 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Load of binary file with other than .b suffix gives unintelligible error

Problem:
Load of binary file with other than .b suffix gives unintelligible
error.
Detailed instructions for duplicating problem:
Assume that a file named example.l in the default directory contains
Common LISP source.
(compile-file "example.l" :output-file "code.example")
(load "code.example")
gives an error instead of loading the file.
Workaround:
If no :output-file option is given, compile-file will create a .b
file.

Fix information:

KPR #: 400003944 **CONTINUED**

May be corrected in a future release.

KPR #: 400003951 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
System not observing restriction of call-arguments-limit (p108 CLtL)

Problem:
System not observing restriction of call-arguments-limit (p108 CLtL)

Call-arguments-limit is 254.
(vector 1 2 3 4 ... 299 300) will return a simple-vector of 300
elements, will not give an error.

Fix information:
Will not fix.

KPR #: 400003969 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Save-world doesn't unwind bindings, save break state, update open files.

Problem:
Save-world does not unwind bindings or save break state or update
open files
Detailed instructions for duplicating problem:
While paused in a break loop, do a save-world. Later, from HP-UX,
execute the file named in the save-world. The state will not be
exactly what it was before the save-world, and some data written to
files oa(will be lost.
Whenever possible, close all open files, exit break loops, and
return to the top level before executing save-world.

Fix information:
Will not be fixed.

KPR #: 400003977 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Disassemble output is not compatible with either LAP or UNIX assembler.

Problem:
Disassembled output is not compatible with either LAP or UNIX
assembler.

Fix information:
Will not fix.

KPR #: 400033985   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
pp-expand does not preserve SPECIAL declarations in locally (and let).

Problem:
pp-expand does not preserve SPECIAL declarations in locally (and let)
Detailed instructions for duplicating problem:
(pprint (extn:pp-expand '
(let (a) (locally (declare (special a))) (foo a))
))
returns (LET ((A NIL)) (LET () NIL) (FOO A)) where the A after FOO is not special.
PP-expand does not preserve ANY declarations except SPECIAL, and those only when there are specially bound variables.
In fact, its method is only heuristic; it may print special declarations when none were originally given!
Workaround:
Use speed 0 where necessary to avoid preprocessor optimizations.

Fix information:
May be corrected in a future revision.

KPR #: 400003993   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Bothtime functions (e.g. proclaim, in package) take only constant args.

Problem:
bothtime functions (e.g. proclaim, in-package) take only constant args
Detailed instructions for duplicating problem:
When functions such as PROCLAIM or IN-PACKAGE occur as top-level forms in a compile-file, they are eval'ed at compile time.
This is necessary in most cases in order to either get correct semantics (as with IN-PACKAGE or PROCLAIM SPECIAL) or to derive the benefits (as with PROCLAIM optimization).
However, since these functions evaluate their arguments, if the arguments are not constants, they may not evaluate correctly at compile time.
E.g. (PROCLAIM X)   ==> Error: The symbol X has no value.

Fix information:
Will not fix.

KPR #: 400034009   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
File names containing '$' are not handled correctly.

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KPR #: 400034009   **CONTINUED**

Problem:
File names containing '$' are not handled correctly
Detailed instructions for duplicating problem:
1. Attempting a C-X C-F command and specifying a file that begins with a $ (I used $test) causes the system to display the message:
   File <directory>/$test is a directory ; use a command argument to force a read. When I used a command argument the system brought up a buffer that had garbage in it.
2. Attempting a C-X C-F on an existing file named test$test nmode put the system into a new buffer that it said contained a new file.
3. I created a file with the name "$(CC) $(CFLAGS)". When I subsequently tried to do a C-X C-F on the file and typed in $(CC) and a space to do file completion the system erased all that I typed and replaced it with "$HOME/". Also when I try to execute the form

   (=> (make-nmode-file-name "$(CC) $(CFLAGS)") :true-namestring)

   The system gets a lisp error:
   An attempt was made to use `-12' as an index in IMPL:SUBSEQ ......
   Condition signalled in NMODE::TRUEST-NAMESTRING

To create these files with $ in the name. I did the following from csh:

vi \$test
<entered text and quit file saving changes>
cp \$test 'test$test'
cp \$test '$(CC) $(CFLAGS)'

forward-info Forward to lisp.kernel:
Since (truenamestring "foo$fee") evals to defaultdir/foo when $fee cannot be expanded, there is no way for the nmode user to specify a filename which contains a "$".

Fix information:
May be corrected in a future release.

KPR #: 400034017   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
(defun nil () nil) works interpretively, not compiled.

Problem:
(defun nil () nil) works interpretively, not compiled
Detailed instructions for duplicating problem:
(defun nil () nil)
(nil)
works interpetively. You can't (compile 'nil) due to the the definition of compile. If you put the defun in a file, compile it, and load it the system will reset whenevery you call (nil). It goes back to the beginning of top-loop as near as I can tell. The banner is reprinted and the listener sequence numbers get reset to nil. In trying to debug this I found that our system can't handle a function

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KPR #: 400034033   **CONTINUED**

Fix information:
Will not fix.

KPR #: 400034041   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Preprocessor error from an eval shows as eval on stack; not the pp fn!

Problem:
Preprocessor error from an eval shows as eval on stack; not the pp fn!
Detailed instructions for duplicating problem:
Doing a (setq a b c) causes a preprocessor error signalled in a preprocessor function. doing a backtrace shows this function on the stack. Wrapping an eval around this also causes the break, ie, (eval '(setq a b c)), but the backtrace shows only eval on the stack. It should also show the pp function.

Fix information:
May be corrected in a future release.

KPR #: 400034058   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Attempt to trace method on undefined type gives meaningless warnings.

Problem:
Attempt to trace method on undefined type gives extraneous meaningless warnings.
Detailed instructions for duplicating problem:
Evaluate (trace (:method horse :color)) when horse is not a defined instance type. This gives the following four warning oessages, only the first of which is meaningful, the rest should be ignored:

!!! Warning: (:METHOD HORSE :COLOR) method specifier ignored in TRACE. HORSE is not a defined instance type.

!!! Warning: unrecognized option :METHOD--option ignored.
!!! Warning: unrecognized option HORSE--option ignored.
!!! Warning: unrecognized option :COLOR--option ignored.

Fix information:
May be corrected in a future release.

KPR #: 400034066   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
(... &key) causes spurious compiler warning.

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KPR #: 400034017   **CONTINUED**

named nil. #'nil (symbol-function 'nil) (disassemble 'nil) ... all give errors.

Fix information:
Will not fix.

KPR #: 400034025   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Preprocessor does not handle &key and &rest in the wrong order

Problem:
Preprocessor doesn't gracefully handle &key and &rest in wrong order.
Detailed instructions for duplicating problem:
(defun bar (&key b &rest c) c)

(bar :b 3)

(defun bum ()
  ((lambda (&rest c &key b) c) :b 3))

(defun bum ()
  ((lambda (&key b &rest c) c) :b 3))

; (Two bugs demonstrated:)

; call to BAR complains of too many arguments passed
; 1st definition of bum works fine
; 2nd definition of bum blows away preprocessor with some strange
; error

Fix information:
Will not fix.

KPR #: 400034033   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Sys:*break-limit* & Sys:*break-limit-exceed-limit can work incorr.

Problem:
The variables system:*break-level-limit* and system:*break-limit-exceeded-limit* do not work right when you set them to a non-integer value.
Detailed instructions for duplicating problem:
(setq system:*break-level-limit* 5.0)
Then evaluate (/ 1 0) more than 5 times. Instead of printing a warning and exiting to the error handler, the system ignores the limit and goes deeper and deeper into breaks.

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KPR #: 400034090 **CONTINUED**

Problem:
Documentation discrepancy on listener-abort/-quit/-continue.
Detailed instructions for duplicating problem:
According to documentation, any listener invoked with the parameter
top-level? true will catch a listener-abort. Listener-abort, in
fact, always throws all the way out to lisp-top-level-loop.

Fix information:
Will not fix.

KPR #: 400034108   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
After !step, XM starts afresh on each new form, losing history.

Problem:
After !step, XM starts afresh on each new form, losing history.
Detailed instructions for duplicating problem:
Example:
```
(defun foo ()
  (let ((x 3))
    (break)
    (+ x x)
    (let ((y 4))
      (values x y)))))
```

Evaluating (foo), and then !step from break, the stepper properly
steps the form (+ x x). Then, however, when it starts with the
inner let, XM makes it the new top level form, and discards the
history information about (+ x x).

Fix information:
Will not fix.

KPR #: 400034116   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Misleading error message in stepper when aborting the computation.

Problem:
Misleading error message in stepper when aborting the computation.
Detailed instructions for duplicating problem:
When in the stepper, and you elect to abort the computation, the
prompt window has the message "... abort the computation and exit
the browser? default yes..." BUT the new behavior of the stepper is
NOT to exit the browser (the expected behavior, anyway...), so the
message is misleading.

Fix information:
Will not fix.

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KPR #: 400034066 **CONTINUED**

Problem:
(...&key) causes spurious compiler warning
Detailed instructions for duplicating problem:
```
(defun foo (&key)
  ...)

(compile 'foo)
```

will give warning message that the variable PREPROCESSOR::
KEYARGS is unnecessary.

Fix information:
May be corrected in a future release.

KPR #: 400034074   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Outer eval-when specs don't control inner ones.

Problem:
Outer eval-when specs don't control inner ones.
Detailed instructions for duplicating problem:
```
(eval-when (load)
  (defmacro foo ()
  ...
  ))
```
will define foo at eval and compile times, too. This is because
defmacro will expand into an '(eval-when (eval compile load) ...),'
and nested eval-whens are not handled correctly.

Fix information:
Will not fix.

KPR #: 400034082   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
DIRECTORY pathname can't read LAN root directory.

Problem:
(DIRECTORY pathname) where pathname specifies another system on the
same Local Area Net can't read the root directory!

Fix information:
May be corrected in a future release.

KPR #: 400034090   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Documentation discrepancy on listener-abort/quit/-continue.

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KPR #: 400034124   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Exec Monitor mismaps the i and v keys.

Problem:
Exec Monitor mismaps the i and v keys.
Detailed instructions for duplicating problem:
Run nmode -t hp on term0
Browse Additional Facilities, Execution Monitor
Do meta-slash on "i"
Do meta-slash on "v"
At least one of these is a bug. :-)
When I did it, one was unmapped & one was mapped to BELL which was
not defined. At least one of these characters was the abbreviation
for one of the commands in the "alphabet soup" line at the bottom.

Fix information:
Will not fix.

KPR #: 400034132   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
When ExMON is active, Lisp-a from 2nd window pops up ExMon in 2nd window

Problem:
When ExMon is active, Lisp-a from 2nd window pops up ExMon in 2nd
window.

Fix information:
Will not fix.

KPR #: 400034140   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Stack overflow makes nmode window the bottom window.

Problem:
Stack overflow makes nmode window the bottom window
Detailed instructions for duplicating problem:
From nmode in a window, I typed in and evaluated the following
function:
(defun f (n)
    (f 0)
)
It eventually got a stack overflow error. It seems that when the
stack overflow occurs, the window is made the bottom window.

Fix information:
Will not fix.

                    - COMMON LISP DEVELMNT -

KPR #: 400034157   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
PP does not check declare name for symbolp; causes error in printing.

Problem:
PP does not check declare name for symbolp; causes error in
printing.
Detailed instructions for duplicating problem:
Example:
(defun foo ()
  (declare (extn:name (foo)))
  ,'foo)
#'foo

This sequence results in

!!!!! Error: Argument (FOO) to IMPL:SYMBOL-PACKAGE is not a symbol.
Condition signalled in: IMPL:SYMBOL-PACKAGE.

when the printer tries to print the fundef's lambda name.

Fix information:
Will not fix.

KPR #: 400034165   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Exec. Monitor does not allow changing the number of function return val.

Problem:
Execution Monitor allows the changing of individual return values
from a function, but not the number of return values.
Detailed instructions for duplicating problem:
Create the function two-values: (defun two-values () (values 1 2 3)),
then evaluate (step (two-values)). In the Execution Monitor, single
step until getting the line
| (TWO-VALUES) = 1 2 3
Then type V V, for V(iew) V(alues-and-args). By positioning on one
of the value lines, using V S it is possible to change the 2 to a 5,
for example, but it is not possible to make the function return
exactly 2 values.

Fix information:
Will not fix.

KPR #: 400034173   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Error in on-line help text for Exec. Mon.

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KPR #: 400034173 **CONTINUED**

Problem:
Error in on-line help text for Exec. Mon.
Detailed instructions for duplicating problem:
The on-line help text for the Execution Monitor says if there are
more than 3 return values from a form that the fourth and succeeding
forms are replaced by the string "Etc.". They are actually replaced
by the string "...". The actual behavior is preferable, the help-
text should be changed.

Fix information:
Will not fix.

KPR #: 400034181   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Meaningless warning msg from Execution Monitor.

Problem:
When entering the Monitoring Options browser of the Execution
Monitor, it gives a meaningless warning message that there are
'No options in group "rare".'
Detailed instructions for duplicating problem:
From the Execution Monitor type "OM" to invoke the monitoring
options browser. The warning message will be displayed at the
bottom of the screen.

Fix information:
Will not fix.

KPR #: 400034199   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Additional facilities prints incorrect message when loading xs browser.

Problem:
Additional facilities prints incorrect message when loading xs
browser.
Detailed instructions for duplicating problem:
Upon loading the execution monitor the execution monitor was marked
with an "L", but the execution stack was not. I then browsed into
the execution stack. A message was displayed asking if I would like
to load the facility. I hit return for "yes" and a message was
displayed saying that I had already loaded the facility. An "L"
was then displayed next to the facility name.

Fix information:
Will not fix.

KPR #: 400034207   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Execution Monitor signals error that a form is not an identifier.

Problem:
Execution Monitor signals error that a form is not an identifier.
Detailed instructions for duplicating problem:
When positioned on the line which says "Monitored form: ...", type
V C (for View Code), and the following error is signalled:

!:!:! Error: An attempt was made to do IMPL:ID2STRING on
(:MONITORED-FORM ...) which is not an identifier.

Error message is erroneous and misleading. No error should be
signalled, the Execution Monitor should merely point out that there
is no browsable code represented by this form.

Fix information:
Will not fix.

KPR #: 400034215   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Restoring default Breakpoints in XM options browser bad warn message.

Problem:
Restoring default Breakpoints in XM Options browser gives bad warn
message.
Detailed instructions for duplicating problem:
Typing R, for restore-default, when on Breakpoints line in Execution
Monitor. Monitoring Options browser gives warning message that an
internal XM variable (DEBUG::*FS-STOP-FNS*) is ignored in breakpoint
specification because it has no function definition.

Fix information:
Will not fix.

KPR #: 400034223   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Execution Monitor reqs symbol to have function definition to set brkpt.

Problem:
Execution Monitor requires that a symbol have a function definition
to set a Breakpoint on it.
Detailed instructions for duplicating problem:
I cannot set a breakpoint on an undefined function in the Execution
Monitor, even though I know it is going to be defined and and
invoked later in my stepping. This is because the Execution Monitor
requires a valid function definition before it will add an element

KPR #: 400034223 **CONTINUED**

to the breakpoints list. For the same reason it is not possible to
break on a named closure.
Workaround:
For ordinary functions, create a temporary function definition and
let it be redefined by program execution. If, however, correct
operation of the program requires the function be undefined, there
is no work-around. There is also no workaround for the case of a
named closure.

Fix information:
Will not fix.

KPR #: 400034231   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
When XM not loaded, (step <form>) EVALs <form>, then says step undefined

Problem:
When XM not loaded, (step <form>) EVALs <form>, then says step
undefined.

Fix information:
Will not fix.

KPR #: 400034249   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Fletting a constant folded function gives wrong results.

Problem:
Fletting a constant folded function gives wrong results
Detailed instructions for duplicating problem:
(proclaim '(optimize (speed 2))) ; to get constant folding
(flet ((car (x) (cdr x))
       (cdr (x) (car x)))
  (cdr (car (1 2 3))))

Will give an error message, because CAR and CDR are constant folded
at speed 2, and this constant folding is not overridden by the flet
definitions.

Fix information:
May be corrected in a future release.

KPR #: 400034256   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Function reported in "Condition signalled in ..." msg not consistant.

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KPR #: 400034256 **CONTINUED**

Problem:
Function reported in "Condition signalled in ..." msg not consistent
Detailed instructions for duplicating problem:
Interpretively define a function foo which calls BREAK. Step foo.
The break message will say that the condition was signalled from
APPLYHOOK rather than from foo.

Fix information:
Will not fix.

KPR #: 400034264   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
XM pauses at evaluation of closed var in function call.

Problem:
XM pauses at evaluation of closed var in function call.
Detailed instructions for duplicating problem:
For most function calls where the arguments are all variable
evaluations, the stepper first shows the call "as written", then on
the next Step, it evaluates and displays all argument values and
redisplays the calling form with the actual values substituted in
the form. If, however, any of the variable arguments is closed,
the stepper stops before evaluating it, and then forces the user to
hit the S key once to see the value and a second time to continue
evaluating the remaining arguments. Other closed arguments in the
list will make similar stops. If remaining arguments are simple
local or special variables, though, the evaluation will proceed for
all of them as it should.

Fix information:
Will not fix.

KPR #: 400034272   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Execution Monitor limits maximum indentation to 50.

Problem:
Execution Monitor limits maximum indentation to 50. Any limit, even
no limit, should be OK.
Detailed instructions for duplicating problem:
Enter the Monitoring options browser and try to set the maximum
display indentation to a number greater than 50.

Fix information:
Will not fix.

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KPR #: 400034306 **CONTINUED**

Fix information:
May be corrected in a future release.

KPR #: 400034314 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Stepper does not gracefully accept bad input when in input mode.

Problem:
Stepper does not gracefully accept bad input when in input mode.
Detailed instructions for duplicating problem:
In the stepper, when I want to walk or run thru a computation, I am
prompted for a function to break at. If I input a series of blanks,
the system goes into a break loop and I get "unexpected end-of-file
encountered. Condition signalled in lisp::read-preserving-
whitespace-aux.

Fix information:
Will not fix.

KPR #: 400034322 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
XM signals non-continuable error if call an undefined function.

Problem:
XM signals non-continuable error if call an undefined function.

Fix information:
Will not fix.

KPR #: 400034330 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
V(alue) cmd on env item in stack br signals error--should ignore instead

Problem:
V(alue) cmd on env item in stack br signals error--should ignore
instead.

Fix information:
Will not fix.

KPR #: 400034348 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Compile-file creates .b with wrong permissions (should use umask).

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KPR #: 400034280 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
In xm, quit acts like an inefficent run (changes modes, run does not).

Problem:
In xm, quit acts like an inefficient run (changes modes, run does
not).

Fix information:
Will not fix.

KPR #: 400034298 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Can't redefine interpreted fn just before call in XM.

Problem:
Can't redefine interpreted fn just before call in XM.
Detailed instructions for duplicating problem:
When stepping a function call the Execution Monitor "stops" at two
different times on forms representing the call. The first time it
reconstructs the "source" of the call, complete with the forms which
will be evaluated to produce the arguments to the function. The
second time, it shows the actual argument values in a list with the
function name that is about to be invoked. One would expect that if
the function about to be called were redefined at the second
suspension point, that the new definition would be invoked. In
fact, if the function about to be called is compiled at the time the
second suspension point is reached, the new definition does take
effect. If, however, the function about to be called is interpreted
when the second suspension point is reached, the new definition does
NOT take effect. In the compiled case, if the new definition is
interpreted, it also has the unfortunate side effect of showing the
call twice.

Fix information:
Will not fix.

KPR #: 400034306 Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
Stepper resets debug::*step-size* when peferred value is set.

Problem:
Stepper resets debug::*step-size* when I have my preferred value set
Detailed instructions for duplicating problem:
Whenever quit or abort are used to exit the stepper
step-size is set to nil. When the next step form is
evaluated it is then reset to all evaluations.

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KPR #: 4000034348 **CONTINUED**

Problem:
Compile-file creates .b with wrong permissions (should use umask).
Detailed instructions for duplicating problem:
Files created by compile-file seem to be created with permission 666
regardless of the umask.
Workaround:
Change permission after compilation.

Fix information:
May be corrected in a future release.

KPR #: 4000034355   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Codegen gives "wrong number of arguments" error.

Problem:
codegen bug with optional parameters
Gives wrong number of arguments error if called compiled
with one argument. Only happens when the optional has
an init form which is an integer 0..255.
Detailed instructions for duplicating problem:
(defun foo (a (&optional (b 23))) (print a) (print b))
(compile 'foo)
(foo 5)
Workaround:
Compile the function at speed 3.

Fix information:
Will not fix.

KPR #: 4000034363   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Optimization bug with (equal 3.0.0).

Problem:
Optimization bug with (equal 3.0 0)
Detailed instructions for duplicating problem:
A bug exists in one of the optimizations of EQUAL and EQL. The
conditions in which it is manifest are as follows (will generate an
illegal instruction trap):

1) Running on a Series 9000 Model 310
2) Compiling at speed 1
3) Function EQUAL or EQL used
4) One argument is the fixnum 0
5) the other argument is a non-fixnum constant

This is a fairly close approximation of the conditions causing this

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KPR #: 4000034363 **CONTINUED**

problem but may not be exact.
Workaround:
The workaround is to compile with some other speed than
1 for this particular function call.

Fix information:
Will not fix.

KPR #: 4000034371   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Defmacro destructuring does not always initialize correctly.

Problem:
defmacro destructuring does not always initialize correctly.
Detailed instructions for duplicating problem:
(defmacro mac (&rest (arg)) arg)

Fix information:
Will not fix.

KPR #: 4000034389   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Printing of floats inaccurate if number has large or small abs. value

Problem:
Printing of floats is inaccurate when the number is large or small
in absolute value.
Detailed instructions for duplicating problem:
(setq x 1.0E-300) causes 1.0000000000006E-300 to be printed.
The internal representation is correct.

Fix information:
Will not fix

KPR #: 4000034397   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Subtypep does not work on types created by defstruct.

Problem:
Subtypep does not work on types created by defstruct.
Detailed instructions for duplicating problem:
(defstruct a)
(defstruct (b (:include a)))

(subtypep 'a 'b) should return (T T). The current subtype
mechanism ignores all user defined types, including those created

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KPR #: 400034397 **CONTINUED**

by defstruct.

Fix information:
Will not fix.

KPR #: 400034405   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
User initiated read of #, syntax evaluates at read-time.

Problem:
User initiated read of #, syntax evaluates at read-time.
Detailed instructions for duplicating problem:
(read-from-string "#,gromek") ; where gromek is unbound
produces an error since gromek is unbound.

Fix information:
May be corrected in a future release.

KPR #: 400034413   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
PPRINT does not work on circular structures.

Problem:
PPRINT does not work on circular structures
Detailed instructions for duplicating problem:
```
(pprint '(block fred
    (if Q (mapcar #'(lambda () (return-from fred)) X)
        (::return-from fred))))

(BLOCK FRED
    (IF Q
        (MAPCAR (FUNCTION (LAMBDA () (RETURN-FROM FRED)))
        (RETURN-FROM FRED)))
```

GOOD!

```
(pprint '#1=(block fred
    (if Q (mapcar #'(lambda () (return-from fred)) X)
        (return-from fred #1#)))

#30=(BLOCK FRED #31=(IF Q (MAPCAR (FUNCTION (LAMBDA () (RETURN-FROM
FRED))) X) #32=(RETURN-FROM FRED #30#)))
```

BAD!

Fix information:
Will not fix.

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KPR #: 400034413 **CONTINUED**

Duplicate Service Requests: 400034736

KPR #: 400034421   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Double-float-epsilon needs to be different on 881.

Problem:
Double-float-epsilon needs to be different on an 881!!
Workaround:
Define and use your own constant instead of double-float-epsilon
when running on a model 320.

Fix information:
Will not fix.

KPR #: 400034439   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Special-form-p of multiple-value-call returns nil.

Problem:
Special-form-p of multiple-value-call returns nil.

Fix information:
Will not fix.

KPR #: 400034447   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Read suppress not working with escaped symbols.

Problem:
Read suppress is not working with escaped symbols
Detailed instructions for duplicating problem:
```
'|foo,bar|      ;; evaluates OK

#-hp            ;; shouldn't get evaluated, but blows up with
'|foo,bar|      ;; Error: Comma not inside a backquote.
```

Fix information:
Will not fix.

KPR #: 400034454   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
pprint seems to print certain forms incorrectly.

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CONTINUED

KPR #: 400003454

Problem:
pprint seems to print certain forms incorrectly
Detailed instructions for duplicating problem:
(pprint '((bbbbbbbb...bbbbbbbbb) (define-method 4))

prints as

((bbbbbbbbbbb...bbbbbbbbbb)
 ((bbbbbbbbbbbbbb...bbbbbbbbbb) (define-method 4))

which just isn't right. A symbol 55 characters long won't fail. The total length of what should be printed is 78 characters. The symbol define-method must be there and the bbb's must be at least 2 levels down.

Fix information:
Will not fix.

KPR #: 400003462   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: NMODE

One-line description:
y-or-n-p and yes-or-no-p should prompt.

Problem:
y-or-n-p and yes-or-no-p should prompt
Detailed instructions for duplicating problem:
The functions Y-OR-N-P and YES-OR-NO-P should prompt the user. For example: "Delete file? (Y or N)" and "Delete directory? (Yes or No)" Currently, they only tell the user what to say after the user first says something wrong. There is no way for the user to distinguish between these two cases based on the message printed.

Fix information:
Will not fix.

KPR #: 400003538   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
Editting switches to PLS mode not LISP mode.

Problem:
Problem description:
Editing the file $LISP/config/nmode.init with NMODE the system switches to "PSL" minor mode. It should be in "Lisp" minor mode.
Workaround:
M-X Lisp Mode

Fix information:
Will not fix.

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KPR #: 400003710   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
Format bug: ~@* directive fails inside ~{...~}.

Problem:
Format bug: ~@* directive fails inside ~{...~}.

The ~@* (absolute goto) format directive does not work properly when used inside a ~{...~} (list iteration) directive. The proper function is to use the elements of the list as the argument list that the ~@* directive refers to. Instead, the ~@* continues to refer to the top level argument list. [See Steele, p. 399; pp. 403f.] The relative skip (~*) seems to work correctly inside iteration directives.

Examples:

(format nil "~1{~0@*~A~}" '(1 2 3)) => "(1 2 3)"   Correct: "1"

(format nil "~{~2@*~A~}" '(1 2 3)) =>
   !!!! Error: In call to FORMAT:
   Illegal to go to non-existant argument
   "~{~2@*~A~}"
          ^
   Condition signalled in: FORMAT.

   Correct: "3"

(format nil "~{~*~A~}" '(1 2 3 4)) => "24"   O.K.

(format nil "~1{~2*~A~0@* ~A~}" '(1 2 3 4)) => "3 (1 2 3 4)"
   Correct: "3 1"

Fix information:
Will not fix.

KPR #: 400003744   Product: COMMON LISP DEVELMNT HP98678A   01.00

Keywords: LISP

One-line description:
GENSYM message refers to extraneous init forms

Problem:
Compiler Warning Message Problem
The compiler generates a warning message about extraneous init forms when these are encountered. Unfortunately, the error message is somewhat garbled. The value that it displays in the error message is the print name of a GENSYM, rather than any indication of the form that caused the error. It looks as if the message constructer does not evaluate an internal compiler symbol (the GENSYM), but prints its name instead.

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KPR #: 400034744 **CONTINUED**

This only occurs with COMPILE-FILE, not with COMPILE (the latter
produces no such warning).

Example: Compile a file containing the following:

```
((lambda (x)
  (setq x 'foo)
  (symbol-name x)
)
nil)
```

Temporary solution:
Try: (PROCLAIM '(WARN NIL))

This turns off all warnings!

Fix information:
Will not fix

KPR #: 400035616   Product: COMMON LISP DEVELMNT HP98678A   01.01

One-line description:
Lisp should load required modules automatically.

Problem:
The LISP modules loaded to the lisp-loader kernel with the
make-nmode script should be "orthogonal" in the sense that
none of them requires any other module to be present when loaded.
If one module needs another one to be present it should execute a
(require <module>) by itself.

However, when I tried to just execute (require "nmode") from
the bare lisp-loader kernel, I got the error message
"undefined function: load-ofile". When I tried to execute

(require "external")
(require "nmode")

the function "debug::add-to-visibility-class" was not defined.
This means: whenever you want to (require "nmode") you need to
(require "debug") and (require "external") first.

Workaround:
Load the required modules with (require <module>).

Fix information:
May be fixed in a future release.

Duplicate Service Requests: 4000046136

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KPR #: 400046110   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
If a Q-Prolog is loaded, output can go to the wrong window

Problem:
If Q-PROLOG is loaded from a Lisp listener, the output will
continue to go to the listener window instead of the output buffer.

Bring up an NMODE with Z-PROLOG in it. Execute a Lisp-L and
evaluate the form (q-prolog). Then exit q-prolog with a ^D and
return to nmode with (nmode:nmode). Upon returning, Q-PROLOG
will continue to output to the listener window instead of the
output buffer.

Workaround:
Don't load Q-PROLOG for the first time while in the Lisp listener.
It will work correctly, as long as it is not loaded while in the
Lisp-L.

Fix information:
Will not fix

KPR #: 400046128   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
Current language can get out of sync with mode of buffer

Problem:
There are certain conditions in which the listener (current
language) can get out of sync with the mode of the buffer in NMODE.
The circumstances are described in Prolog Users guide.

Do a Lisp-L while in a Lisp buffer. Then evaluate the function
(z-prolog). Inside Z-PROLOG do a (lisp-eval ?x (nmode:nmode)) to
return to NMODE without leaving the Z-PROLOG language. The buffer
you return to will be in Lisp mode but in the Z-PROLOG language
(the listener will be in Z-PROLOG).

Workaround:
Simply cycle through the language modes until you return to the mode
you want. The listener will be correct by then.

Fix information:
Will not fix

KPR #: 400046433   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
Emacs menu "MODES" not complete.

Problem:
Emacs popup menu "MODES" only contains Lisp, Text, and Auto Fill.
It should also contain C, Pascal, Fortran, Z-Prolog and Q-Prolog
if these facilities are loaded.

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KPR #: 400046433 **CONTINUED**

Fix information:
May be fixed in a future release.

KPR #: 400046441   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
When loading files, cannot determine use of old or new entry points

Problem:
If you try to load-ofile at some entry point which already exists
in the system it is not easy to tell whether you are getting the
existing entry-point or a new one.

For example, Nmode always has the Windex (hp-ux_3w) libraries.
This contains an entry point named "wmove". If you want to use
the curses junk and use that "wmove" you will not have an error
on the load-ofile but will get one when you think you are calling
curses and end up calling windex.

Workaround:
You can push the symbol of the entry point onto the
protected-entry-points list and then use the :redefining keyword
in the load ofile to redefine during the load the entry point in
question.

We should include a specific explanation of this phenomena in the
documentation.

Fix information:
Will not fix

KPR #: 400046771   Product: COMMON LISP DEVELMNT HP98678A   00.00

One-line description:
lisp sometimes hangs, this is aggravated by prolog

Problem:
It is possible to get the PROLOG system into such a state that the
BREAK key will not ever be processed. In other words, the system
hangs. This generally will not happen unless BREAK is not hit for
at least a couple minutes after a predicate starts looping.

Define the following predicate in Z-PROLOG and evaluate the second
call (the one in the comment below). Wait several minutes (I
waited 8) and hit BREAK. It will not respond.

```
(defpred reverse
 ((reverse ?list1 ?list2)
  (rlist ?list1 () ?list2)))
(defpred rlist
 ((rlist () ?list1 ?list1)
  (rlist ?list1 ?list1 ()))
```

                                    - COMMON LISP DEVELMNT -

KPR #: 400046771 **CONTINUED**

```
  ((rlist (?a .?b) ?c ?r)
   (rlist ?b (?a .?c) ?r)))
 ;(reverse (a b c) (c b a))
 ;(reverse ?x (a b c ))
```

Workaround:
Hit BREAK earlier in the process. If this happens and it does not
return, then you must restart NMODE/PROLOG. Note that this never
interferes with the correct operation of correct programs.

Fix information:
Will not fix.

KPR #: 5000170167   Product: COMMON LISP DEVELMNT HP98678A   01.01

One-line description:
Setq & setf combination results in system termination.

Problem:
Common Lisp bug:
```
(setq a (make-array '(2 3)))
(setf (apply #'aref a' (1 1)) 1 )
```
Bombs the system, the following works:

```
(setq a (make-array '(2 3)))
(setq z '(1 1))
(setf (apply #'aref a' z) 1 )
```

Fix information:
Will be fixed in a future release.

KPR #: 5000193656   Product: COMMON LISP DEVELMNT HP98678A   01.00

One-line description:
inquire_hit function not included in HPUX_3g package for LISP

Problem:
The customer has tried to use the Inquire Hit function which is a new
feature with version 5.12 of the Starbase Graphics but this was not
available through the HPUX_3g package from Lisp 1.01. She wants this
feature to be added. She knows that she can write a foreign function
call from Lisp that will allow the use of this but she wants it in the
HPUX_3g package.

Temporary solution:
Make a file with the following things in it:
```
(in-package 'hp-ux_3g)
(export '(inquire_hit))
(extn:defexternal inquire-hit ... )
```

It appears that you already have the defexternal
defined. This file can be compiled and the binary
can be loaded in your .lisprc or .nmoderc. It could
could also be put in your make-nmode.

                                    - COMMON LISP DEVELMNT -

KPR #: 1650041749   Product: COMMON LISP EXCUTION HP98679A   01.00

One-line description:
Order of FORTRAN function parameters effects calc.when called from LISP.

Problem:
Example in Lisp programmer's guide p.141 fails when sequence of parame-
ters in both Lisp program aswell as in Fortran routine are changed.
Only the original sequence generates the right result.

Temporary solution:
The workaround is a redefinition of two LISP macros. This fix
should be referenced in the user's .nmoderc file.

Fix information:
Will be fixed in a future release.

- COMMON LISP EXCUTION -

KPR #: 5000193656 **CONTINUED**

Fix information:
Will not be fixed.

KPR #: 5000272898   Product: COMMON LISP DEVELMNT HP98678A   01.01
Keywords: DOCUMENTATION   LISP

One-line description:
Error in lisp application note example.

Problem:
The "Window smart example" in Chapter 5 "Term0 Windows" of "Lisp
Application Note" (part# 98678-90010 p71) causes "file stream error".

When we evaluate "(query-usr wmfd "Jimi" "Hey Joe, where you going with
that pizza in your hands ?")", a window is successfully made but after
displaying the message "Hey Joe, ... your han", an error occurs.
The error message is:

!:!:! Error: Unknown file stream error with stream #<File Stream
/dev/screen/Jimi^@>
Condition signalled in :LISP::FILE-OUT

*** System ***
9000/350, HP-UX 5.5, Common Lisp 1.01

Temporary solution:
In the function query-user, change the call set-canonical to
set-raw. You will have to handle echoing and backspacing
yourself.

Fix information:
Will not fix.

- COMMON LISP DEVELMNT -

KPR #: 4000078683   Product: DOS COPROCESSOR SFTW 98531A   01.06

One-line description:
Shell escape from DOS and try to start DOS again. Font's get trashed.

Problem:
When a soft-reset is done in the ITE (shift-break key) it overwrites the
offscreen memory in the display. The fonts stored by the DOS
coprocessor get overwritten. The only workaround is to exit dos and
re-start.

(Note that re-starting DOS from a shell escape fails. However the ITE
is reset during that process, thus overwriting the original fonts)

Cause:
Fonts get unloaded

Temporary solution:
No workaround needed

Fix information:
This problem fixed in version 2.1. But there are still
a few rare instances where fonts can get trashed in dos.cga.

Signed off 10/30/90 in release A02.00

KPR #: 4000093401   Product: DOS COPROCESSOR SFTW 98531A   02.00

One-line description:
If dosconfig used to disconnect & reconnect LPT1->spooler, fails errno32

Problem:
This problem is due to a defect in the dosconfig script.

Cause:
This is due to a defect in the dosconfig script.

Fix information:
Will be fixed in release 2.10 of DOS Coprocessor Software.

Signed off 10/30/90 in release A02.10

KPR #: 4000093567   Product: DOS COPROCESSOR SFTW 98531A   02.00

One-line description:
README.DOC doesn't mention REDIR when showing how to update AUTOEXEC

Problem:
The README.DOC on the 2.0 release of the Dos Coprocessor does not
fully explain how to update an AUTOEXEC.BAT file. The statement
should read

To modify your old AUTOEXEC.BAT,
   remove these lines if they are present: xmemdrvr
                                               viacoopd

                           - DOS COPROCESSOR SFTW -

KPR #: 1650119883   Product: DOS COPROCESSOR SFTW 98531A   02.00

Keywords: DOS CO-PROCESSOR

One-line description:
DOS Co-processor does not work correctly with 98549A

Problem:
The wrong starbase driver (hp300h) was being used for this display
type. Not all graphics planes were being manipulated properly,
causing ghost planes to appear.

Cause:
The wrong starbase driver (hp300h) was being used for the 98549
display.

Temporary solution:
To avoid this problem, use dos.cga inside of Windows 9000, or
use dos.ega, or use dos.x.

Fix information:
This fix was made in DosCoprocessor version 2.1.

Signed off 10/30/90 in release A02.10

KPR #: 400005846   Product: DOS COPROCESSOR SFTW 98531A   01.05

One-line description:
CTTY does not work with VIACOOPD loaded

Problem:
CTTY is a MSDOS command that allows a character IO device to be
substituted for the standard console. It does not work when
Viacoopd is loaded.

Cause:

This problem associates with the program, VIACOOPD.EXE,
which has been obsoleted in version 2.00.

Temporary solution:
Unload the Networking software by typing nocoopd at the MSDOS
prompt. The HP-UX file system can not be accessed, however
CTTY should work.

Fix information:
not applicable any longer on 2.00+

Signed off 10/30/90 in release A02.00

                           - DOS COPROCESSOR SFTW -

KPR #: 5000456640 **CONTINUED**

syntax is valid and should be handled correctly.

Cause:
The 2.0 DOS Coprocessor emulation code has a 2 defects in the 3.5" disk drive emulation code. Either of these defects cause the /T:80 argument to the FORMAT command to be incorrectly rejected.

Temporary solution:
In DOS Coprocessor revisions 2.0 and earlier, do not use the /T argument with the FORMAT command. To format a 720 kbyte floppy in a 3.5-inch 1.44 Mbyte drive, the "/N:9" argument will cause FORMAT to take the proper action.

Fix information:
This has been fixed in DOS Coprocessor Release 2.1. Starting with that revision, the FORMAT command will format 720 kbyte media in a 1.44 Mbyte 3.5-inch drive when the /N:9 and/or the /T:80 arguments are supplied.

Signed off 10/30/90 in release A02.10

KPR #: 5000479725   Product: DOS COPROCESSOR SFTW 98531A   01.20

Keywords: DOS CO-PROCESSOR

One-line description:
pop up menu under dos.x hangs the dos window

Problem:

X Library changes made in 6.5 made some implementation assuptions no longer valid. The 6.2 libraries did not exhibit this problem. Version 2.00 of the DOS Coprocessor software was developed on 6.2.

Cause:
The X libraries changed for HP-UX 6.5 causing DOS to fail.

Fix information:
Changed the user interface for 2.1

Signed off 10/30/90 in release A02.10

- DOS COPROCESSOR SFTW -

KPR #: 4000093567 **CONTINUED**

add these lines if they are not ^M
already there:
                    redir
                    dosmount d:

Cause:
The README.DOC file had incomplete information.

Temporary solution:
Follow the directions mentioned above under Problem: to make the changes to the autoexec.bat files.

Fix information:
This problem is fixed in version 2.11
Signed off 10/30/90 in release A02.10

KPR #: 5000429019   Product: DOS COPROCESSOR SFTW 98531A   01.20

One-line description:
dos subsystem ties up system when pressing extend/reset for long time

Problem:

The autorepeating flush key caused the DOS System to repeatedly fork/exec the lp process. These are costly operations in terms of compute time (lots of swapping) and the large number of requests generated by the autorepeat caused the system to grind to a halt.

Cause:

Getting autorepeat directly from X sometimes leads to too many key presses

Fix information:

This problem is fixed in version 2.1 and following.

Signed off 10/30/90 in release A02.10

KPR #: 5000456640   Product: DOS COPROCESSOR SFTW 98531A   02.00

Keywords: DOCUMENTATION

One-line description:
format not correctly documented

Problem:
The 2.0 DOS Coprocessor does not properly handle the /T:80 argument to the FORMAT command, when formatting 720k 3.5-inch media on a 1.44M drive. The FORMAT command fails when this argument is given, but the

- DOS COPROCESSOR SFTW -

KPR #: 1650042044   Product: HP PROLOG 1.0   79232U   01.00

Keywords: PROLOG

One-line description:
PROLOG goes into infinite loop on certain predicates.

Problem:
HP9000/350 with 16Mbyte ; HP-UX 5.22 ; CommonLisp and HP-Prolog

1. Define the following two predicates:
```
(defpred fibonacci
   ((fiabonacci 1 0 ))
 ; ((fiabonacci 1 1 ))
   ((fibonacci ?fn ?n)
    (+ ?n -1 ?n-1)
    (fibonacci ?fn-1 ?n-1)
    (+ ?n -2 ?n-2)
    (fibonacci ?fn-2 ?n-2)
    (+ ?fn-1 ?fn-2 ?fn)])
```
2. Prove
   (fibonacci ?res 5)

It is not possible to abort the evaluation of this endless loop
using the break key.

Fix information:
Will not be fixed.

                    - HP PROLOG 1.0 -

KPR #: 1650059014   Product: HP SQL/300   79725A   01.05

One-line description:
Computing COUNT over an empty set returns no row instead of zero

Fix information:
This problem has been resolved on HP-UX 3.0 on the series 800
machine. When resyncing of HP SQL between 300 and 800 series
machines is complete, it will contain the necessary fix for this
SR.

Signed off 12/29/89 in release A02.00

KPR #: 470044717   Product: HP SQL/300   79725A   00.00

One-line description:
we need to raise the minimum number of log pages allowed

Problem:
A user can specify a minumum of 120 log pages on HP SQL/300
while HP SQL on the Series 840 has a minimum of 136 log pages.
For compatibility, these numbers should be the same.

Cause:
A constant needs to be redefined from 120 to 136. In reality,
for the latest A.B2.00.00 ALLBASE release on the Series 840,
the minimum number of log pages has been set at 144 pages.

Temporary solution:
On HP SQL/300 specify a minimum of 136 log pages. To be
compatible with the latest Series 840 A.02.00 HP SQL release
(ALLBASE A.B2.00.00) specify a minimum of 144 log pages.

Fix information:
The problem will be fixed in resync 300 base code.

Signed off 03/09/89 in release A06.05

KPR #: 470045161   Product: HP SQL/300   79725A   00.00

One-line description:
'unload to external..' from cmd file requires all params on one line

Problem:
When doing an ISQL 'unload to external' from a command file, a
single character on one line causes a problem ot occur. The
error returned is #47 - Missing parameters from command file.

Cause:
None at this time.

Temporary solution:
When using 'unload to external' from a command file, put all
required parameters on a single line.

Fix information:
To be fixed by resych in 6.5 release.

                        - HP SQL/300 -

KPR #: 4700539148   Product: HP SQL/300   79725A   00.00

One-line description:
BULK FETCH bug. Can only retrieve a certain number of rows.

Problem:
The problem exists as Charlie stated it. Tony found the bug in a piece
of assembly code that reads a word instead of a longword from the
length register so only a certain number of rows can ever be fetched.
    There is a workaround. Only 65535 bytes can be fetched at a time, so
divide by the number of bytes per tuple and that will be the max number'
of rows that can be fetched at a time.
No error message was ever returned. gk

Cause:
As identified by Tony, the problem is in a piece of assembly
language routine inside SQLCore. I am transferring this to May's
group that handles SQLCore.   David Ai 9/1/88
The assembly code that reads a word instead of a longword from the
length register so only a certain number of rows can ever be fetched.
Only 65535 bytes can be fetched at a time.
No error message was ever returned. gk

Fix information:
This problem has been fixed in release version 1.01 or later.

Signed off 05/23/89 in release A02.00

KPR #: 4700552232   Product: HP SQL/300   79725A   00.00

One-line description:
LOAD command failing when pattern matching specified

Problem:
version 1.0
There is a problem with the LOAD command. Try loading from an external
file using a pattern to a relation. EG:
LOAD FROM EXTERNAL extern TO TEST
SERLN 1 10 #
END
YES 1 a;
isql will still prompt you for the starting location and the pattern
even though you've given it. After specifying theses values, nothing
is loaded even though some tuples qualify. Specifying an uppercase A
instead of a lowercase a will cause qualifying tuples to be loaded.

Cause:
This problem was caused by an ISQL defect.

Fix information:
To be fixed by the resynch in release 6.5.   David Ai 9/1/88

Signed off 03/07/89 in release A02.00

                              - HP SQL/300 -

KPR #: 4700451161 **CONTINUED**

Signed off 03/07/89 in release A02.00

KPR #: 4700455444   Product: HP SQL/300   79725A   00.00

One-line description:
illegal syntax error generated due to bigfile processing

Problem:
Due to the 255 bytes limitation on strings, large queries are
sometimes incorrectly recalled from big file processing. When
these are run through ISQL, a syntax error is returned.

Cause:
HP SQL was incorrectly concatinating lines every 256 bytes
rather than the 2048 bytes found on the Series 840 HP SQL version.

Temporary solution:
Limit the length of large queries to less than 256 bytes.

Fix information:
To be fixed by the resynch in 6.5 release.   David Ai

Signed off 03/07/89 in release A02.00

KPR #: 470481937   Product: HP SQL/300   79725A   00.00

One-line description:
installation module size not compatible with that of hp sql/800

Problem:
There is an alignment difference in the sizes of HP SQL/300 and
HP SQL (Series 840) ISQL install modules. This causes some porting
problems for HPToday and HP SQL users who want to transfer these
modules between different 300, 500, and 800 series hardware.

Cause:
An alignment difference exists between HP SQL/300 and HP SQL on the
Series 840. The HP SQL/300 length is 498 bytes while HP SQL/840
is 500 bytes for a module. The extra 2 bytes (filler) needs to be
added to HP SQL/300 module size.

Temporary solution:
No temporary workaround exists for porting modules.

Fix information:
Will be fixed by the resynch in 6.5 release.   David Ai 9/1/88

Signed off 03/07/89 in release A02.00

                              - HP SQL/300 -

KPR #: 4700594275   **CONTINUED**

Fix information:
Will be fixed on 6.5 release.   David Ai   9/1/88

Signed off 03/07/89 in release A02.00

KPR #: 4700594309   Product: HP SQL/300   79725A   00.00

One-line description:
unload command with embedded select stmt causes syntax error

Problem:
Lines from the SELECT clause of the ISQL UNLOAD command are
concatenated without the insertion of a blank. This results
in an error for the SELECT clause when it is parsed.

Temporary solution:
This problem can be worked around by inserting a blank at the
beginning of every line within the doubly quoted SELECT clause.

Fix information:
Will be fixed on 6.5 release.   Linda Spilo 11/3/88

Signed off 03/07/89 in release A02.00

KPR #: 4700664219   Product: HP SQL/300   79725A   00.00

One-line description:
internal error msg returned for < minimum log pages on start dbe

Signed off 05/23/89 in release A02.00

KPR #: 4700687905   Product: HP SQL/300   79725A   00.00

One-line description:
C compiler cannot resolve symbols when linking more than 1 object file.

Problem:
When an application contains two or more program source files
and after preprocessing these source files, at linking time
the linker complains 'sqlmodname' and 'sqlowner' as multiple
defined symbols.

Cause:
This problem is caused by the C Preprocessor in HP300 system
defined 'sqlmodname' and ,sqlowner' as global variables in
each corresponding type file for ecah program source file
which has been preprocessed, and after compiled by C compiler
these golbal have been into each object file, therefore when
linker tried to link these object files it detected two identical
global variables in each object file and issued warning messages.

Fix information:

- HP SQL/300 -

KPR #: 4700577508   Product: HP SQL/300   79725A   00.00

One-line description:
negative numbers improperly sorted by ORDER BY

Problem:
DMCCD (column compare) does not work correctly on the
300 code.

Cause:
See problem text.

Fix information:
This will be fixed on the 300 6.5 release.

Signed off 03/09/89 in release A06.05

Duplicate Service Requests: 5000296913

KPR #: 4700590638   Product: HP SQL/300   79725A   00.00

One-line description:
multi-table joins may cause memory allocation failures

Problem:
The problem was in the optimizer, which was using an
unnecessary large amount of memory for a multi-table
join. Memory utilization was large enough to cause
queries to fail with "HP SQL memory allocation failed"
error during optimization.

Cause:
Some memory no longer needed by the optimizer was never
being released. Thus, with multi-table joins which
involve many join orders and index plan possibilities,
available memory would be exhausted.

Fix information:
A fix was made to release memory no longer needed.
Fixed in Release 1.01.

Signed off 12/21/89 in release A20.00

KPR #: 4700594275   Product: HP SQL/300   79725A   00.00

One-line description:
incorrect error msg when using isql from directory w/bad permissions

Problem:
rev 1.0 When trying to select from within isql and the permissions
are incorrect in the current working directory, the error msg needs to
be cleaned up. A pascal runtime error is output along with a hp-ux
system error 13. What should be output is ' security violation,
permission denied (DBERR 220)' gk 3/22

Cause:
This problem was caused by ISQL's not interpreting HP-UX return code.

- HP SQL/300 -

KPR #: 4700687905 **CONTINUED**

The problem was fixed by recompiling the fixed C preprocessor module (generating both 'sqlmodname' and 'sqlowner' as static variables instead of global variables) and recreating a new C Preprocessor.

Signed off 03/07/89 in release A02.00

KPR #: 470068226 Product: HP SQL/300   79725A   00.00

Keywords: ISQL

One-line description:
ISQL exhibits transaction errors when loading large table from external.

Problem:
ISQL gives the user multiple (~12) duplicate error messages indicating a transaction is not in progress when the user tries to commit work (DBERR 2102) after loading a large number (3477) row of data into a table. This seems to occur only when the database has been loaded with a fair amount of data (it does not occur when the data is initially loaded). This problem does not seem to be dependent on a particular table (any large table will do).

Cause:
This problem is caused by loading large amounts of data at a time into a database that already contains a fair amount of data.

Temporary solution:
Use LOAD PARTIAL to load smaller amounts of data at a time.

Fix information:
This problem will be fixed for release 2.00.

Signed off 12/19/89 in release A02.00

KPR #: 4700712463 Product: HP SQL/300   79725A   01.01

One-line description:
FORTRAN preprocessor doesn't allow underscore in variable names

Problem:
The Fortran/300 preprocessor does not allow underscore in variable names.

Cause:
This problem is caused by the Fortran/300 preprocessor not allowing underscore in variable names. The Fortran/800 preprocessor allows underscore. The problem will be fixed upon completion of the 800/300 code resync.

Fix information:
This will be fixed in the resync (release 6.5).

                              - HP SQL/300 -

KPR #: 4700712463 **CONTINUED**

Signed off 03/07/89 in release A02.00

Duplicate Service Requests: 5000433540

KPR #: 4700713743 Product: HP SQL/300   79725A   01.01

One-line description:
incorrect and nonexistent error msg (DBERR 3045) output

Problem:
Described in Submitter Text.

Cause:
Described in Verifier Text.

Fix information:
Fixed in HP SQL/300 Release 2.0 on 6.5 which is the re-synced code.

Signed off 12/21/89 in release A20.00

KPR #: 4700714352 Product: HP SQL/300   79725A   01.01

One-line description:
select while in unwritable directory causes abort from isql

Problem:
ISQL gives a cryptic error message and aborts when the user tries to do a SELECT after invoking ISQL from a directory that is not writable.

Cause:
ISQL tries to create a temporary file when doing a SELECT. When the directory is not writable, ISQL is not able to do this. This error condition should be handled better by ISQL by giving the user a better error message and not aborting.

Fix information:
This will be fixed for the 6.5 release.

Signed off 03/07/89 in release A02.00

KPR #: 4700720177 Product: HP SQL/300   79725A   01.01

One-line description:
ER to keep daemon from outputting errors to /dev/console

Problem:
The 1.01 software had this problem. With the 6.5 software, one can do a 'mesg -n' to disable writing to the console. The daemon will then write its messages to /tmp.

Cause:
On 1.01 the daemon would abort if it did not have write permission

                              - HP SQL/300 -

KPR #: 4700720177 **CONTINUED**

on the console. With 6.5, if it can't write to the console, it
will simply write its message to /tmp.

Fix information:
This will be fixed in release 6.5 on the 300s.

Signed off 03/09/89 in release A06.05

Duplicate Service Requests: 4700720169

| KPR #: 4700740589 | Product: HP SQL/300 | 79725A | 01.01 |

One-line description:
Internal error occurs in a query with 2 aggregates in an expression.

Cause:
The bug was due to two factors:
1. Internally, only enough space for the number of select items
   was allocated, not for the number of columns referenced within
   the select items.
2. The count distinct required a sort.
Since the sort list is allocated right next to the select list
internally, when the select list was lengthened due to items
referring to more than one column, the new items were written
over when the sort list was generated (in the space allocated for
it)

Fix information:
To fix this problem, sufficient space was allocated for the
select item list to handle the case when more than one column is
named in a single select item.

This fix will appear in the HP-UX/300 7.0 release.

Signed off 12/27/89 in release A02.00

| KPR #: 4700743401 | Product: HP SQL/300 | 79725A | 01.01 |

One-line description:
For certain decimal type fields, negative numbers are stored as positive

Problem:
When inserting negative decimal values into decimal columns, if the
number of digits after decimal point matches exactly the scalar of
the column defined, and the precision is bigger than 7, then the
negative sign will be lost:

e.g. Column defined as: Decimal (9,2)
      Value entered   : -12.50
      Result   :   12.50

Cause:
This is due to a problem in HP SQL that at runtime the minus sign is
lost if:

                                  - HP SQL/300 -

KPR #: 4700743401 **CONTINUED**

1) The input format has the same scalar as the column definition;
2) the input value takes a smaller storage space than the column
   e.g. decimal (9,2) takes 8 bytes but -2.45 takes 4 bytes.

Fix information:
The fix is in HP SQL so that it references the correct sign bit
location.

The work around is to enter data where scalars between the entered
value and the column definition are different.

Signed off 12/29/89 in release A02.00

Duplicate Service Requests: 4700748301

| KPR #: 4700747246 | Product: HP SQL/300 | 79725A | 01.01 |

One-line description:
4053 on an update of a table with multiple indexes

Cause:
The problem appeared because in attempting to locate the update
column(s) in the index column list(s), the search continued past
the end of the list(s).

Fix information:
The fix will appear in HP SQL/300 release 7.0.

Signed off 12/27/89 in release A02.00

| KPR #: 4700748368 | Product: HP SQL/300 | 79725A | 01.01 |

One-line description:
DBCORE 285 caused by application with CS (or RC) and ORDER BY clause.

Problem:
BEGIN WORK CS;
SELECT ... ORDER BY ....;

The above sequence returns a DBCore error 285.

Cause:
IS-Level CS or RC is not supported on list scan since there is
no concurrency issue on temp table (temporary table is owned by
only one user). SQLCore should be using RR whenever it scans a
temporary table.

Temporary solution:
Build an index on the order by column would be one work around.
Another way is doing the query in RR IS-Level.

Fix information:
The fix involved making sure that the correct isolation level
was used on the sorted data.

                                  - HP SQL/300 -

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KPR #: 4700768416   Product: HP SQL/300   79725A   02.00

Keywords: SFK   ISQL

One-line description:
UNLOAD EXTERNAL using SELECT on a Japanese database aborts ISQL with (0)

Problem:
ISQL aborts when the user who is using a multi-byte language
(such as Japanese) enter an UNLOAD EXTERNAL command that
contains a SELECT clause.

Cause:
This problem is caused by ISQL not properly handling the UNLOAD
EXTERNAL SELECT clause properly in the case on multi-byte
languages.

Temporary solution:
To work around this problem, create a view with the desired SELECT
clause and then UNLOAD the data from the view.

Fix information:
This problem will be fixed in release 7.00 IC1.

Signed off 12/19/89 in release A07.00

KPR #: 4700776633   Product: HP SQL/300   79725A   01.01

One-line description:
ISQL help text examples should display the semicolon at end of command.

Problem:
The examples in the online HELP text should contain semicolons.
Some currently do, but most do not.

Cause:
Not all examples in the ISQL HELP text end with a semicolon.
All examples should contain semicolons.

Temporary solution:
Always add a semicolon to the end of all queries entered through
ISQL.

Fix information:
Semicolons ';' have been added to the examples of help text.
This will go out on Rel 7.00 IC2.

Signed off 12/19/89 in release A07.00

KPR #: 4700776641   Product: HP SQL/300   79725A   01.01

One-line description:
Incorrect error mssg from ISQL when ran out of disk space for tmp file.

Problem:
ISQL prompts the user to mount another tape when it runs out of
space in the directory. It should give the user a better error

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KPR #: 470074368 **CONTINUED**

This fix will be in HP SQL/300 Release 7.0.

Signed off 12/27/89 in release A07.00

KPR #: 470075293   Product: HP SQL/300   79725A   01.01

One-line description:
With NEQ operator, tuples w/ unknown search condition value are returned

Problem:
When a factor containing an NEQ operator is evaluated at the
DBCore level, tuples for which the value of the search condition
is unknown will be returned, violating ANSI SQL1.

Cause:
When a factor containing an NEQ operator is evaluated at the
DBCore level, SQLCore fails to AND a null test with the factor,
causing the incorrect results.

Temporary solution:
A temporary workaround is to explicitly include a null test
in the query. For example,

c1 <> 10

would become:

(c1 <> 10) and (c1 is not null).

Fix information:
This defect will be fixed in release 7.0.

Signed off 12/29/89 in release A07.00

KPR #: 4700768077   Product: HP SQL/300   79725A   01.01

One-line description:
Query with 13 between clauses fails with DBCore Internal Error 216.

Problem:
Dbcore was issuing bus error (error number 216) when a query
had more than 13 'and' conditions. The stack size in one of
the Dbcore module was not sufficient enough and a null pointer
was referenced. This problem was only on 300.

Cause:
Please see problem text.

Fix information:
This problem has been fixed in release 7.0 IC2.

Signed off 01/02/90 in release A07.02

- HP SQL/300 -

KPR #: 4700778951   Product: HP SQL/300   79725A   01.01

One-line description:
hpdbdaemon dies on CONNECT (error 1067) on S300 w/ floating pt accel.

Problem:
The hpdbdaemon was not passing a properly sized buffer in a
system library call on the 300 which caused other variables to be
overwritten. One of these variables was the DBCon name which
then caused the 1067 error. Only users running on 300 hardware
including the floating point co-processor and the floating point
accelerator would potentially hit this problem.

Cause:
Please see problem text.

Fix information:
The buffer size on the 300 for the library call has been
corrected. This problem will be fixed in release 7.0

Signed off 01/02/90 in release A07.01

KPR #: 4700793570   Product: HP SQL/300   79725A   01.01

One-line description:
After update or delete, opened cursor reads old data within transaction.

Cause:
There is a problem with cursor sensitivity in HP SQL within
a transaction. If a cursor is defined and opened, and within
this transaction updates or deletes are performed which effect
the result of the cursor, these changes are not reflected when
using the cursor.

So if a delete is performed for example by the user within
the same transaction as the cursor, a fetch from the opened
cursor may still retrieve tuples which were deleted.

KPR #: 470079438B   Product: HP SQL/300   79725A   02.00

One-line description:
HP SQL is utilizing a large amount of swap space.

Problem:
HP SQL is utilizing a large amount of swap space.

Cause:
The scheme for attaching shared memory was preallocating heap
space causing the system to wastefully allocate swap space.

Fix information:
A new scheme was developed for attaching shared memory which was
not dependent on preallocation of heap space. This fix is available
in a patch (HP SQL rev. 2.00, NET rev. 1.01)

Signed off 12/20/89 in release X07.03

KPR #: 4700776641   **CONTINUED**

message when this happens and not prompt them for another tape.

Cause:
The HP-UX operating system returns the same error message when it
has reached the end of the tape as when it has used all the
available disk space within the directory. ISQL needs to
determine what device is causing the error before deciding
whether to prompt the user for another tape or tell the user
there is no more space in their directory.

Fix information:
The error message has been updated to take into consideration for
both the tape and disk storage devices.
In addition, a DBWARN message is issued when the device is full.
This will go out on REL 7.00 IC2.

Signed off 12/19/89 in release A07.00

KPR #: 4700777813   Product: HP SQL/300   79725A   01.01

One-line description:
Problem with using ISQL on 700/43 terminals

Problem:
ISQL uses HP Escape characters to clear the screen, highlight text
and underline text. Two new terminals, the 700/41 and 700/43 do
not support these escape characters. As a result the screen
is not cleared when ISQL is invoked and the SELECT output is
displayed. It also causes problems when displaying HELP text,
since highlighting and underlining are done regularly when
displaying this text.

Cause:
Two new terminals, the 700/41 and 700/43 do not support the HP
escape characters. ISQL uses these when displaying HELP text,
clearing the screen for SELECT output and clearing the screen
when invoking ISQL.

Temporary solution:
It is not critical that the screen get cleared when invoking ISQL
or displaying the SELECT data. The main problem is in using
the HELP text. To work around this problem, the ISQL and SQL Reference
Manuals should be used instead of the online HELP facility within
ISQL. Note that there is a summary of ISQL and SQL syntax in
appendices A and B of the ISQL Reference Manual.

Fix information:
All control characters have bee replaced by special characters.
(eg. '_', ';', '_'). The should be out on Rel 7.00 IC2.

Signed off 12/19/89 in release A07.00

KPR #: 4700795872   Product: HP SQL/300   79725A   02.00

One-line description:
DBCORE reports "out of disc space" even though entire file is avlble.

Problem:
When the temporary relation is dropped and a new transaction is started, Dbcore was generating the same transaction id. This was causing the problem of out of space.

Cause:
See problem text.

Signed off 01/08/90 in release A07.01

KPR #: 4700795898   Product: HP SQL/300   79725A   02.00

One-line description:
2060, 2066 during load, select - following large delete.

Problem:
The problem here is that in situations where a user deletes a large number of the highest keys from an index the index gets corrupted causing errors such as 2066 and 2080.

Cause:
The cause of the problem is that DBCORE depends on special high value entries being the last entry on all non-leaf levels of a btree index. When enough of the highest entries in an index are deleted to delete a higest page at a non-leaf level then we are left with a level which does not have a high value entry.

A possible work around would be to keep record with an index key higher than any real record in the database at all times.

Temporary solution:
This problem causes corruption in the index, but not in the data. A workaround is to drop the index and recreate it, if this problem is encountered.

Signed off 01/08/90 in release A07.01

KPR #: 4700795914   Product: HP SQL/300   79725A   02.00

One-line description:
DBERR 4008 on query with BEGIN WORK RC or CS and involving sort.

Signed off 01/02/90 in release A07.02

KPR #: 4700803395   Product: HP SQL/300   79725A   01.01

One-line description:
Data corrupted on 2048 byte when entering char string > 2048 bytes

Problem:
There was a problem obtaining memory for an internal buffer

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KPR #: 4700803395   **CONTINUED**

when the first allocation is greater than 2k. Therefore, the value would be corrupted after the 2k offset.

Cause:
Only 2k bytes was being allocated for the value.

Fix information:
Fixed in the 7.0 HP SQL Release.

Signed off 12/20/89 in release A07.00

KPR #: 4700820704   Product: HP SQL/300   79725A   01.01

One-line description:
Query result was sorted in ASC order although DESC was specified.

Problem:
A query where an descending order was specified may come out in ascending order if it involves a join with an equal predicate and indexes are available on the table.

Cause:
A new sort merge join algorithm is incompatible with a sort optimization algorithm using indexes. If the optimizer chooses to employ both algorithms, the results may not come out in the specified order.

Fix information:
A fix was made to disallow both sort merge join and index sort optimization at the same time. This fix will be available in UX release A.07.00.13.

Signed off 11/15/89 in release A70.00

KPR #: 4700829655   Product: HP SQL/300   79725A   01.01

One-line description:
The bugcatcher on the 300 aborts with segmentation violation

Problem:
The bugcatcher on the 300 aborts with segmentation violation.

Cause:
There was a bug in one of the 300-specific debug include files.

Fix information:
Fixed in a post pass 15 IC3 D.0 version. This version does not exist as yet (as of 10/6/89 0900 HRS), but when it does, the version will be A.07.03.16 (UX) and A.20.03.16 (XL).

Signed off 12/18/89 in release A07.03

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KPR #: 4700829952   Product: HP SQL/300   79725A   07.00

One-line description:
An ALTER TABLE section in a 2.0-migrated 7.0 database fails for FLOATs.

Problem:
MDD is attempting to run an application compiled on 6.5 UX/300, with a database which was created on 2.0 SQL and then migrated to 7.0 using SQLMigrate. This means they will have old (2.0) stored sections in the database, which HP SQL should be detecting and correcting for automatically. It also means that the program was linked with 2.0 libsql.a, which will cause any prepare or execute immediate statement to also build 2.0 stored sections for execution. So, whether they execute an alter table directly as in:

   EXEC SQL ALTER TABLE t1 ADD c1 FLOAT;

or do it with a prepare:

   EXEC SQL PREPARE MOD1 FROM 'ALTER TABLE t1 ADD c1 FLOAT';

they will be using 2.0 input structures to SQLCore.

This problem will also appear in the CREATE TABLE command, when the command defines a FLOAT column, in the 2.0 -> 7.0 migration path (2.0 stored sections in a 7.0 database).

Cause:
The cause of the problem is that we were not correcting an input node which should have been automatically upgraded. When we added FLOAT precision specification, this altered the structure for defining columns in tables. This structure should have been marked as needing SQLCore migration, but it was not. So, the old structure was used unchanged. That structure did not declare a precision for FLOAT columns, but left it 0. Since 0 is now an invalid FLOAT precision (the range 25 - 53 is valid in HP SQL Release 7.0), the error message is generated. If the node had been corrected properly, the precision would have been set to 53 (the default).

Temporary solution:
A workaround which will remove the old 2.0 input structures is to recompile the application on 7.0. Then, the new (corrected) 7.0 input structures will be generated and the problem will not appear.

Fix information:
This problem will be fixed in the 300 7.0 patch and will be available for a 800 7.0 and XL 2.0 patch. It will also be fixed in the XL 2.1 and UX 8.0 releases.

The fix will cause a low-priority problem described in SR # 4700-833590. This bug allows FLOAT(0) to be accepted and processed as a FLOAT(53) in CREATE and ALTER TABLE. This was the only way to efficiently and properly fix this bug in a release without impacting future releases. That SR will be fixed in a future release.

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KPR #: 4700829952   **CONTINUED**

Fixed in HP SQL Patch Release A.07.00.17 on HP/UX, and A.20.17 for MPE/XL.

Signed off 01/11/90 in release A07.17

KPR #: 4700835561   Product: HP SQL/300   79725A   07.00

One-line description:
Incorrect query results for OR predicate with null indicator set.

Problem:
HP SQL may return incorrect query results when the predicate includes an OR operator and null indicators.

Cause:
When the predicate includes parameters (host variables) that may be null (have null indicators), SQLCore generates code to test for null parameters at runtime. If any parameter is null, no tuples will be returned. However, when the predicate includes one or more OR operators, one or more parameters may be null, but there may still be a result.

Temporary solution:
A temporary workaround is to make the source reference an arithmetic expression (e.g., multiply column by 1). This will force evaluation at the SQLCore level.

Fix information:
This defect will be fixed in the 8.0 and later releases. It is also available for a 7.0/2.0 patch.

Fixed in HP SQL Patch A.07.00.18(HP/UX), and A.20.18(MPE/XL).

Signed off 01/11/90 in release A07.18

KPR #: 4700837666   Product: HP SQL/300   79725A   07.00

One-line description:
While testing FIPS, a particular query hangs.

Problem:
The problem is in the processing of the BETWEEN clause in the grammar and the HAVING clause in the linearizer. The BETWEEN clause is transformed into the equivalent comparison (LHS >= V1 and LHS >= V2); the HAVING clause attempts to transform this predicate, and when it pulls out the second copy of the LHS, it corrupts an internal structure.

Fix information:
The fix is for the HAVING linearization to check that an item is not already in the internal structure before attempting to place it there. No where else does the processing of BETWEEN cause this problem.

This will be fixed in the 9000/800 and 9000/300 UX Release 7.0

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KPR #: 4700837666 **CONTINUED**

patch, and in the XL 2.1 release.
Fixed in HP SQL Patch Release A.07.00.17 on HP/UX, and
A.20.17 for MPE/XL.

Signed off 01/10/90 in release A70.16

KPR #: 4700839928   Product: HP SQL/300   79725A   70.00

One-line description:
Backend process core dump due to unable to allocate free page buffer.

Problem:
The problem was that DBCore could not find a free page buffer and
then a core dump was generated for the query mentioned on the lab
text.

                                        - Jenny Shieh

Cause:
There were two reasons for this bug. The core dump was caused directly
by the invalid value of NOP (number of parameter) in an instruction
which was not in the range of a case statement in JTMRUN. The further
reason for the invalid value of NOP was caused by the inner block.
When the inner block encountered error 261, it did not switch
the code buffer pointer back to the original one for the outer
block before popping out to the system. So when the outer block
executed the next fetch, it used the wrong code buffer pointer of the
inner block to execute its op codes. Unfortunely the NOP value
was invalid, the core dump was generated.

                                        - Jenny Shieh

Fix information:
This fix will be available in XL release A21.05 and UX release
A08.00.00. It will also be available in a patch release for UX 7.0
as version A07.00.18.

Signed off 01/11/90 in release A70.18

KPR #: 4700842989   Product: HP SQL/300   79725A   07.16

One-line description:
Pascal runtime error returned from ISQL processing japanese input > 2k

Problem:
ISQL returns pascal runtime error in certain cases of NLS input > 2k.

Cause:
A previous fix to a non-NLS problem caused this. String routines in
the non-NLS fix spanned across NLS code, as a result (because NLS string
routines are different) we may get a pascal runtime abort.

Temporary solution:
There is no temporary solution to this problem. It all depends on the

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KPR #: 4700842989 **CONTINUED**

type of NLS data you use.

Fix information:
This problem has been fixed and will go out with rel 7.0 patch and rel
8.0.
This problem also occurs in rel ux03.01.07 and will be fixed in rel
ux03.01.08.

KPR #: 4700849927   Product: HP SQL/300   79725A   01.01

One-line description:
ISQL is not checking for overflow on a 4 byte FLOAT.

Problem:
The ranges of a 4 byte float is not checked when loading through ISQL.

Cause:
Overflow checking on Unix is only reported for double precision floats,
a 4-byte float will never get an overflow error.

Temporary solution:
Check through the input file for 4 byte float values manually.

Fix information:
The problem has been corrected and will go out with rel ux 8.0.

KPR #: 4700852574   Product: HP SQL/300   79725A   07.00

One-line description:
Internal error on join query including OR and ORDER BY,GROUP BY,DISTINCT

Problem:
An internal error may occur when a join query includes both an
OR operator in the predicate, and an ORDER BY, GROUP BY or
DISTINCT clause.

Cause:
The internal error occurs because the internal optimization tree
is not maintained correctly in certain cases.

Fix information:
This fix will appear in a 2.0/7.0 patch, and in releases 3.0
and 8.0.

KPR #: 4700855932   Product: HP SQL/300   79725A   07.18

One-line description:
Changing the select list on a 5 table join query returns fewer rows.

Fix information:
Fixed in HP SQL HP/UX PATCH for 7.0.

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KPR #: 4700857938   Product: HP SQL/300   79725A   70.00

One-line description:
Integer Overflow on Operation Convert when inserting min integer value.

Problem:
On the 300 only, HP SQL will not accept an INSERT of the minimum integer value allowed. A DBERR condition is generated, overflow on operation convert.

Cause:
HP SQL is reading the value in as a decimal, and converting it to an integer. The convert routine blindly converts the positive value to an integer, which is greater than the maximum positive integer allowed. Thus an error condition arises. The convert routine must check if it is converting the smallest integer allowed before blindly converting it as a positive value, and then setting the sign at the end of the convert.

Fix information:
Will be fixed in HP/UX 8.0.

KPR #: 4700858837   Product: HP SQL/300   79725A   07.00

One-line description:
Sort is returning bad data on select on >16 col table with index.

Problem:
A SORT operation (on any column > #16 in the projection list of the table) is returning bad data for that column.

Cause:
The bug is very simple. A SORT projection list can never exceed 16 columns (we know that). A table projection list can have as many has 255 columns (we know that too).

The way we create a SORT projection list is as follows. We take the table projection list and create a subsetted inversion of it into the SORT projection list.

For that reason, although the SORT projection list will NEVER have more than 16 active elements, it needs to be as big as 255 elements - just because of the implementation. Well, it was only 16 elements long. Consequently, we were corrupting the local variables on the stack immediately following the SORT projection list declaration.

What follows can be anybody's guess. It is a surprise the user query was not aborting.

Fix information:
Fixed in D.0 DBCORE versions A.07.03.17/A.20.03.17).

Signed off 02/20/90 in release A70.17

KPR #: 4700859488   Product: HP SQL/300   79725A   07.00

One-line description:
INSERT of REAL number outside of legal negative range is not trapped.

Problem:
Insert of a REAL number outside of the range is not trapped as pointed out in the submitter text. DBERR 1022 should be generated.

Cause:
Instead of error 1022, the value 0.0 would be inserted. The cause was that recover logic for aborts(underflow/overflow of numeric data) was not checking the right escapecode for the 300. Instead of generating the DBERR 1022, processing of the INSERT would continue with a value of 0.0.

Fix information:
Fixed in HP SQL HP/UX 8.0.

KPR #: 4700859660   Product: HP SQL/300   79725A   07.00

One-line description:
Arithmetic computation results in an integer underflow condition.

Problem:
An arithmetic operation on that would result in a integer underflow condition (minint/2.0) was not being trapped with an error condition(DBERR 2600) at run time.

Cause:
A case statement for RECOVERY of such an abort did not include the 300 integer underflow case.

Fix information:
Fixed in HP SQL HP/UX 8.0.

KPR #: 4700863472   Product: HP SQL/300   79725A   08.03

One-line description:
"DBCon File invalid-DBERR 3066" expected but DBERR 3078 reported on 300.

Problem:
On HP SQL HP/XU 300 only, DBERR 3078 is not being reported but instead DBCon File invalid-DBERR 3066.

Cause:
A fix was made for this mapping in a section of compiler option code for the 800, but was never applied to the 300 specific code. Thus, the incorrect mapping of the return code occurs.

Fix information:
Fixed in HP SQL HP/UX 300 Release 8.0.

KPR #: 4700869537   Product: HP SQL/300   79725A   00.00

One-line description:
DBERR 8207 returned by SHOWDBE command in SQLUTIL.

Problem:
While executing a SHOWDBE command of SQLUtil under another user's directory, DBERR 8207 "Operation not performed; illegal capability" was received. However, the command was executed without problem.

Cause:
Redundant checks are performed in SQLUtil, causing the incorrect error message.

The real cause of the problem is when SQLUtil tries to obtain the maintenance word for the current user. If this fails, the error message 8207 will appear. But only for that attempt. The rest of the command will continue to execute.

Temporary solution:
Ignore the DBERR 8207 if you didn't enter a maintenance word.

Fix information:
Code has been changed so that if the user made no attempt to get the maintenance word, they will not get the error.

This will be fixed in Ux 8.0.

KPR #: 4700875468   Product: HP SQL/300   79725A   00.00

One-line description:
Missing tuple in a multi-user KC test

Problem:
    This problem can manifest in 2 ways:

1. Error 2060 is generated when a tuple (record) is updated or deleted.

2. In a SQL command where an index scan is used, a key may not be found where it actually exists.

An index scan may be used on a SELECT, FETCH, UPDATE, or DELETE. When a key is not found, no error is returned. The problem can occur with heavy updates on a b-tree index.
In other words, the b-tree keys need to be updated heavily where b-tree pages will be deleted and created.

If a SQL application updates index keys, then the index's integrity should be checked, regardless of having an error returned or not.
The best way to check a b-tree index integrity is to use a fast tool. Until such a tool is available, there is a work around to check a b-tree index integrity.

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KPR #: 4700875468   **CONTINUED**

TEMPORARY WORK AROUND FOR INDEX INTEGRITY CHECK:

The temporary work around may be slow especially with a large table. Simply issue the folowing command:

    DELETE * from TABLE;
    ROLLBACK WORK;

The delete command will consume log space. Log should be large enough to allow the delete to complete successfully. Note that a rollback command is issued after the delete because the intent is not to delete but to check the integrity of the index.
In a manufacturing environment, the integrity of indexes may be checked one at a time during slow hours.

HOW DELETE CHECKS THE INTEGRITY OF THE INDEX:

To delete all the rows in a table, a table scan is executed. For each row, we will search for the corresponding key in each of the table indexes. If the delete command returns no error, then each index for the table is good. If an internal error (2060, 2060) is returned, then one of the table's indexes is bad. This index should be dropped and recreated. It is highly recommended to drop all the indexes and recreated.

CAUSE TEXT:

The handling of page free and page add (split) was incorrect. Heavy updates to the index can cause a key to be inserted in the wrong place.

FIX INFORMATION:

Once an index is checked and is found good, the fixed software will ensure that the discussed type of corruption will not reoccur. With recreated indexes, the fixed software provides the same insurance. By attempting to keep existing indexes good, a local space problem may occur where an error (1025) may be returned. In such a case, the index should be dropped also, and recreated.

Fix information:
Fix available in:

	UX	XL
D.0	A.07.03.23	A.20.03.23
D.1	A.71.02.11	A.21.02.11
E.0	A.08.01.05	A.30.01.05

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KPR #: 4700876516 **CONTINUED**

Cause:
The parent application is closing and reopening the 3 STD files before and after connecting to the DBE. We have a problem with HP SQL in that it writes to STDLIST and STDERR (i.e. fds 1 and 2) all the time. If the parent is closing these files before forking hpsqlproc, the fds 1 and 2 may correspond to some DBE files. That will do it.

Problem is UX specific.

Fix information:
This fix will be available in UX 8.0 and following releases as well as patch releases for UX 3.1 and UX 7.0.

KPR #: 4700877282   Product: HP SQL/300   79725A   70.00

One-line description:
HP SQL internal error (MPE-XL Error 16) occurred: nested query testing

Problem:
The problem for this SR is the query got an underflow value so that the system cannot continue to finish the query.

Cause:
The problem is caused by an unitialized CS2 value in a join plan. The system uses a garbage value in the memory to represent CS2. If the value is extremely small, then the query gets underflow.

Fix information:
The fixed is on XL 2.1 release, and UX 8.0 release. Fixed in HP SQL Patch Release A.07.00.17 on HP/UX, and A.20.17 for MPE/XL.

Signed off 05/07/90 in release A70.17

KPR #: 4700878447   Product: HP SQL/300   79725A   70.00

One-line description:
Error 139 may be returned with Read Uncommitted during a timing window.

Problem:
Error 139 may be generated if Read Uncommitted is used with a reverse table scan.

CAUSE TEXT:
The RU latch was not requested on reverse relation scan.

FIX INFORMATION TEXT:
Fixed available in:

	UX	XL
E.0	A.80.06	A.30.06

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KPR #: 4700875468 **CONTINUED**

Note that with the D.0 fix, there will also be the possibility that newly created indexes (or index uncorrupted so far) may generated a "no space" condition. This is a real corner case, and will force users to drop and recreate their indexes when it happens. But ALLBASE is guaranteed NEVER to corrupt indexes because of this bug any more.

Signed off 02/21/90 in release A70.23

KPR #: 4700876060   Product: HP SQL/300   79725A   01.01

One-line description:
DBERR 13262 and RC 196 on SELECT w/ IN predicate during regression test

Problem:
A query containing an IN predicate with host variables and null indicators, and three or more values in the list may fail with an internal error.

Cause:
This defect results because the parse tree built is not in the form required for OR optimization, and the predicate tree size is calculated incorrectly.

Fix information:
This defect will be fixed in the XL 3.0 and UX 8.0 releases, and will be available for a 7.0/2.0 and 2.1 patches.

KPR #: 4700876128   Product: HP SQL/300   79725A   02.00

One-line description:
SQL may choose force index plan when standard plan is better.

Problem:
Non-optimal performance may be observed for some queries containing ORDER BY, GROUP BY, and/or DISTINCT.

Cause:
The SQL optimizer may sometimes choose a force index plan (i.e. use an index scan instead of performing a sort), when the standard plan would be better.

Fix information:
This fix will be in release 8.0.

KPR #: 4700876516   Product: HP SQL/300   79725A   00.00

One-line description:
DBCORE error 2060 from aci_fetchc (reproducible through Info Access)

Problem:
Corrupted DBEFILE0 in an application where the parent process is constantly being killed and restarted.

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KPR #: 4700882951 **CONTINUED**

E.0   A.08.01.06   A.30.01.06

KPR #: 4700882985   Product: HP SQL/300   79725A   07.00

One-line description:
KEEP CURSOR scans can proceed with no system relations locks

Problem:
A low level test showed that a KEPT scan, upon COMMIT WORK, maintains relevant locks on user tables and indexes, but releases locks on DBCORE directory tuples.

This makes it possible for another application to DROP the table or index being used by this KEPT scan.

Cause:
We have discovered a not too complex, but basic problem with the way KEEP CURSOR handles locks on DBCORE directory objects. Please see lab text if you can for details. Otherwise, the following high level explanation should suffice.

The basic theme is that the problem is caused by the same user transaction that deals with multiple cursors. Further, there HAS to be some overlap between the objects locked by these two cursors.

The following facts should clarify the issue:

1. An OPEN SCAN on a table will always lock the following low-level DBCORE objects:

    a. The table tuple in the low level directory (S lock)
    b. The page in which this tuple resides   (IS lock)
    c. The low level directory table   (IS lock)

    And of course, if this is an index scan, the same a,b,c set is acquired for the index tuple (and associated page and table).

2. The sequence in which locks are acquired are a,b,c.

3. At any point in the sequence, if a lock is found to be already acquired by the transaction, the scan manager will assume that all higher locks are also held, and will try no further.

    This is the right thing for us to do. However, with cursor stability and KEEP CURSOR etc, every scan needs to be individually aware of EVERY lock that is associated with it WHETHER or not this lock was explicitly acquired by this OPEN CURSOR.

4. Every lock is aware of "how many cursors depend on it". But this awareness is limited only to the cursor that explicitly obtained the lock.

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KPR #: 4700878447 **CONTINUED**

This defect will not be fixed for D.0 (XL 2.0, UX7.0) or XL 2.1 due to the low probability of its occurence.

KPR #: 4700882936   Product: HP SQL/300   79725A   00.00

One-line description:
Large variable index keys do not work correctly.

Problem:
Sometimes, the INSERT/UPDATE of a large key (about 990+ bytes) generates an internal error 2080.

Cause:
Currently, the way index page splits work, if a new key value comes along and there is not enough room on its candidate page, the index manager will split this page, put one half of the current tuples in one page, the remainder in the second one, and then try to insert this new value.

It is totally possible that even after this split, we do not manage to fit the new tuple in its (new) candidate page. At this point, resplitting this page is a problem. Here is where the index manager was getting confused.

Fix information:
Fix available in:

	UX	XL
D.0	Exists, not fixed	Exists, not fixed
D.1	Exists, not fixed	Exists, not fixed
E.0	A.08.01.06	A.30.01.06

KPR #: 4700882951   Product: HP SQL/300   79725A   07.00

One-line description:
Error 1058 result on update after no more tuples code is returned.

Problem:
Error 1058 is generated on a KEEP CURSOR test with CS.

Cause:
The cause is currently under investigation. It seems that if an UPDATE is issued after the most recent FETCH returns a "no more tuples", DBCORE acquires a latch (which latch??) and does not release it before getting back to the command manager.

Fix information:
Problem will be fixed for E.0, but not for D.0 or D.1:

	UX	XL
D.0	Will not be fixed	Will not be fixed
D.1	Will not be fixed	Will not be fixed

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KPR #: 4700883009 **CONTINUED**

At this point, we do not allow rollforward recovery through a CREATE DBEFile command. The temporary workaround would be for the user to perform all the CREATE DBEFILES and then do a STORE of the entire environment.

We will seriously investigate fixing this bug in the very near future.

7/19/88

KPR #: 4700883033   Product: HP SQL/300   79725A   00.00

One-line description:
DBCore Internal Error 1057 returned when log full during SORT.

Problem:
Yet another case of attempting to exit DBCORE without unpinning all pinned pages.

Cause:
After a SORT operation fails on a normal error (out of space etc) this may happen.

Fix information:
Fix available in:

	UX	XL
D.0	Not to be fixed	Not to be fixed
D.1	Not to be fixed	Not to be fixed
E.0	A.80.00.03	A.30.00.03

KPR #: 4700883280   Product: HP SQL/300   79725A   01.01

One-line description:
"HPSQL not running" appears twice for commands after TERMINATE USER

Problem:
If after issuing a TERMINATE USER command for himself/herself the user issues a SELECT command they will be the message "HP SQL not running (DBERR 2100)" twice. Only one occurence of this message is necessary.

Cause:
The SELECT command will cause ISQL to issue multiple "HP SQL not running (DBERR 2100)" messages after a TERMINATE USER operation is done.

Temporary solution:
Ignore the extra message.

Fix information:
Fixed in ALLBASE/SQL HP/UX release 8.0.

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KPR #: 4700882985 **CONTINUED**

5. If the cursor that explicitly acquired the lock(s) now does a CLOSE CURSOR, and the transaction now COMMITs, these locks will be released. However, there may still be a KEPT CURSOR that indirectly acquired the lock, and still needs the lock for the next implicit transaction.

6. Now this KEPT CURSOR that is still alive contnues on to FETCH more records from the table/index, and all along, this transaction is missing some key directory locks.

7. Now, some other user comes along and drops this table on which this active cursor is running. But the cursor is merrily running, reading what it thinks is valid data.

   The reason why the DROP TABLE will succeeds is that it only checks to see if the table tuple in the DBCORE directory is locked. That alone will tell it if it is okay to DROP TABLE.

Fix information:
We have decided that while this is a pretty bad bug,
(a) it can only happen when there is destructive DDL going on.
(b) to fix this bug, new routines need to be added. Do we really want to fix it for UX 7.0/XL 2.0 and XL 2.1?

At this point, we feel that we will fix it for E.0, and nothing else.

	UX	XL	
E.0	A.80.01.08	A.30.01.08	(Proposed)

KPR #: 4700883009   Product: HP SQL/300   79725A   00.00

One-line description:
DBEFile existence not being verified in rollforward recovery

Problem:
HPIMAGE basically uses the extend chunk feature during rollforward recovery. Dbcore w &dBas not replaying the pages for the extend &d@ chun and thus the recovery wasnot completed.

Cause:
Dbcore was reinitialising the pages to the newest version at the time of recovery. And this didnot allow the recovery to replay the pages.
   To fix the problem, we reinitialised the pages to lowest version number. The file affected was "dtfoch".

Temporary solution:

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KPR #: 4700883306   Product: HP SQL/300   79725A   01.00

One-line description:
Must enter EXIT; a few times to exit ISQL when user #2 does a STOP DBE

Problem:
When in multi-user mode and another user issues a STOP DBE,
ISQL does not correctly recognize that the DBE has been stopped
and requires the user to enter multiple EXIT commands to EXIT
from ISQL.

Cause:
ISQL does not correctly test for a STOP DBE being done by
another user. As a result, when a DBCORE error is encountered
when trying to EXIT from ISQL, ISQL simply reports the error
back to the user and aborts the command. It is not till
several errors are encountered does ISQL realize that no
database is connected to and it allows the user to exit ISQL.

Temporary solution:
Proceed with entering EXIT and ignore the extra messages.

Fix information:
This problem will be fixed in Rel 8.0.

KPR #: 4700883322   Product: HP SQL/300   79725A   01.01

One-line description:
ISQL: Entering 'non-existent' command gives DBERR 2102

Problem:
ISQL does not give consistent error messages for single letter
commands entered after a connect is done. Since a transaction
should automatically be started for the user, then all the
commands should get the DBERR 2214 error message.

Cause:
ISQL does not correctly handle all unknown commands (i.e.
single letter commands) consistently. Note that some
single letter commands, such as "C" and "U", are valid
abbreviations for ISQL commands (see CHANGE and UNLOAD).

Temporary solution:
Ignore the message if the command entered is not valid.

Fix information:
This problem has been corrected in Rel 8.0. A more appropriate
message will be issued.

KPR #: 4700883330   Product: HP SQL/300   79725A   07.00

One-line description:
PASCAL preprocessor fails to preprocess SELECT COUNT(*) FROM T1 command

Problem:
The SQL statement "SELECT COUNT (*) FROM ..." is not processed
correctly by the Pascal preprocessor. It treats (* as the

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KPR #: 4700883330   **CONTINUED**   79725A

beginning of a Pascal comment block.

Cause:
The Pascal preprocessor treats comment symbols for Pascal before
it scans for other tokens. Therefore when it encounters the
syntax SELECT COUNT (*) ... it assumes the two symbols (* mean
the beginning of a comment block.

Fix information:
Fixed in ALLBASE/SQL HP/UX release 8.0.

KPR #: 4700883413   Product: HP SQL/300   79725A   00.00

One-line description:
ISQL does not allow > 255 when SELECT includes joined tables

Problem:
SELECT's with greater than 255 columns in SelectList will
result in DBERR 3008 using ISQL.

Cause:
ISQL calls SQL to fetch 255 columns whenever the
SelectList contains more than 255 columns. ISQL has a bug
on the DESCRIBE call to SQL.

KPR #: 4700883959   Product: HP SQL/300   79725A   07.00

One-line description:
Internal error 52 occurs in a joined nested query

Problem:
In a correlated nested query, the subquery is executed for each
value of the outer query. If the first value of the outer query
is NULL, a DBERR 4053 might occur.

Cause:
The DBERR 4053 is a result of a system bus error which occurred
in trying to dereference a bad pointer.

Fix information:
This fix will be put available through a UX 7.0 patch as well
as XL 2.1 and all subsequent releases.

KPR #: 4700883975   Product: HP SQL/300   79725A   07.00

One-line description:
Subquery with EXISTS hangs

Problem:
Any nested query with a subquery which makes three or more outer
references may cause a hang to occur.

Cause:
The cause of the problem was an endless loop which is only
hit when you have three or more outer references in a subquery.

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KPR #: 4700883975 **CONTINUED**

Fix information:
This fix will be put available through a UX 7.0 patch as well
as XL 2.1 and all subsequent releases.

KPR #: 4700886796   Product: HP SQL/300   79725A   00.00

One-line description:
HPDBDAEMON needs to be more robust in its error handling

Problem:
There are many cases where the daemon needs to shut down the
environment, or just simply, report an error condition.

Under normal circumstances, the daemon's messages that go to
the console are cryptic, unfriendly and not very communicative.

Cause:
The only inhibitor to doing anything about this SR was the fact
that the daemon, while it does read the message catalog, does
not go the extra inch of putting in parameter substitution as
well. If it did, it would report the error code (at least) along
with the message text.

We will fix this problem for ux 8.0 definitely. By the way, the
problem is for the 800 and 300 alike.

Fix information:
Fix is UX specific. We hope to put in a fix quickly for the
daemon. There is also an overall issue of friendly error
trapping for DBCORE as a whole. That is a subject for a
future SR.

Version numbers will be supplied as soon as they are known.

KPR #: 4700890228   Product: HP SQL/300   79725A   07.00

One-line description:
Doubly defined error for SQLCODE at compile time - ANSI conform. issue.

Problem:
If user defines a variable SQLCODE explicitly, after preprocessing the
application program will have another SQLCODE variable defined,
causing a "doubly defined symbol" error at compile time.

Cause:
With the SQLCode enhancement in UX 7.0 and XL 2.0., the preprocessors
will insert the definition for a variable SQLCODE into the user's
application. If the user already has the same variable defined (as
demanded by the ANSI Level 2 standard) there will be a direct conflict.

Temporary solution:
The workaround is to not define the variable SQLCODE explicitly in the
user code.

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KPR #: 4700890228 **CONTINUED**

Fix information:
Fixed in ALLBASE/SQL HP/UX 8.0 release.

KPR #: 4700892448   Product: HP SQL/300   79725A   07.00

One-line description:
User session waiting for a page can not be aborted due to a hang

Problem:
A user process was found hung inside an RU transaction.

Cause:
Please see lab text (if you can) for details. This hang was
caused by an RU user process waiting on itself. In summary,
a certain flag is set by an RU reader when it attempts to
FETCH the next row from a table. If this FETCH operation fails
for a valid reason (in this case, the reason was DBERR 4008 -
could not allocate shared memory}, this flag should be reset
BEFORE attempting the internal abort-transaction.

Fix information:
Fix available in the following releases:

	UX	XL
UX 7.0/XL 2.0	A.07.03.29	A.20.03.29
XL 2.1	A.71.02.14	A.21.02.14
UX 8.0/XL 3.0	A.80.01.08	A.30.01.08

Signed off 07/27/90 in release A07.29

KPR #: 4700892612   Product: HP SQL/300   79725A   01.00

One-line description:
Preprocessing "C" application with LANG=korean gives DBERRs 10908/11014.

Cause:
The cause of this problem is resulted from passing the incorrect
parameter value to 'NLJUDGE' in the Preprocessor command line handl-
ing routine 'SOPTGETU' (a common routine for all Preprocessors).

The 'SOPTGETU' routine uses "sizeof()" to pass the length of the
data buffer without cleaning up the buffer first. Since the buffer
is declared as a packed array the "sizeof" always passes the fixed
size of the buffer(from it's declaration) which does not reflect the
true length of the data string in the buffer, 'NLJUDGE' interprets
the 'garbage' data in the buffer and returns this error!

The reason why it does not happen to LANG=japanese is that 'maybe'
the 'garbage' data can be interpreted by 'japanese' collate table
but not by 'korean, collate8 table.

Fix information:
The problem has been fixed by replacing the 'sizeof' with 'strlen'

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KPR #: 4700892612 **CONTINUED**

to pass the data buffer length to 'NLJUDGE' in 'SOPTGETU' module.

The fix has been submitted to Rel7.0 Pass30 (patch) release.

KPR #: 4700896944   Product: HP SQL/300   79725A   70.00

One-line description:
Query returns DBERR 4053

Problem:
An internal error (DBERR 4053) may occur on a query including both an aggregate distinct and a group by.

Cause:
The internal error was due to a segmentation violation caused by accessing an array of pointers with the incorrect index variable.

Fix information:
This defect will be fixed in the 8.0 release. A patch will be available for the 7.0 release.

KPR #: 4700899815   Product: HP SQL/300   79725A   03.00

One-line description:
START DBE NEW should clean up ALL files in case of failure.

Problem:
ALLBASE/UX does not clean up completely after a START DBE NEW fails for whatever reason.

Cause:
This is just a minor bug in the code. We clean up DBECon, DBELOG1 (and DBELOG2 if there is one), but we are neglecting to clean up DBEFILE0.

Fix information:
Target fix versions:
UX 8.0/XL 3.0   A.80.52.01   A.30.52.01

This issue will not be addressed for already released versions.

KPR #: 4700901470   Product: HP SQL/300   79725A   01.01

One-line description:
C preprocessor appears to cause byte alignment problems with application

Cause:
The problem is caused from the inconsistency of the alignment schemes between C (and Pascal) Preprocessor(s) and C (and Pascal) compiler(s). for building the host variable format nodes on the UX300 system.

Fix information:
The fix is done by modifying the C (and Pascal) Preprocessor(s)'s

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KPR #: 4700901470 **CONTINUED**

alignment handling modules to following the relevant UX300 compiler alignment algorithm.

The fix has been submitted into rel7.0 pass34.

KPR #: 4700902122   Product: HP SQL/300   79725A   01.01

One-line description:
ALLBASE is not catching the error when Long Field output device too long

Problem:
ALLBASE is not generating the correct error message when Long Field file path length is too long (DBERR 3204). Instead the Long Field file access error (DBERR 3205) is reported.

Cause:
ALLBASE is not checking the length of the output path before coping the name to a local variable. If the path legth is greater than 46 bytes, it will overwrite another local variable, which is used to check if the output path is for file access. Because of the overwritten, the check condition will always fail and check on path length will not be performed. It will then go ahead and will try to open the file, which doesn't exist. This will returns the error indicating the file access fail.

Fix information:
This SR will be fixed on 300 in Release 8.0

Duplicate Service Requests: 4700902130

KPR #: 4700905877   Product: HP SQL/300   79725A   20.33

One-line description:
Optimizer may choose sort merge join when nested loop join is faster

Problem:
The optimizer may choose a sort merge join plan when a nested loop join plan would be faster. Also, for sort merge join, we may perform a sort even if an index is available on the join column.

Cause:
Currently, when a sort merge join is performed, we do not consider doing an index scan on a join table in order to eliminate the sort. Also, our calculations tend to underestimate sort costs.

Duplicate Service Requests: 4700914382 1650132670

KPR #: 4700906263   Product: HP SQL/300   79725A   70.00

One-line description:
Start dbe newlog accepts 'logx and logy' without using Dual log command.

Problem:

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KPR #: 4700906263 **CONTINUED**

HPSQL accepts the specification of two logs in the START DBE NEW and START DBE NEWLOG commands even when DUAL LOG is not specified. This should be an error condition. It simply ignores the the second log specification.

Cause:
This condition was not being check for. If DUAL LOG was not specified, it was treating it as if only one log was specified.

Fix information:
This problem will be fixed for HPUX release 8.0 and MPE/XL release 3.0.
This fix will be to return a DBERR 1074 in this case.

KPR #: 4700908137   Product: HP SQL/300   79725A   00.00

One-line description:
ISQL sometimes returns DBERR 49 when not recognizing ';' in START file

Problem:
ISQL fails to recognize ';' at the end of some START files, causing a "Last command not terminated in command file - ignored (DBERR 49)" warning.

Cause:
ISQL fails to recognize the last ';' in a command file.

Temporary solution:
Users are advised to ignore the DBERR 49 message.

Fix information:
This problem is fixed in rel 8.0 ux.

KPR #: 4700908251   Product: HP SQL/300   79725A   00.00

One-line description:
Problems: Literals with '--' and parameter prompt in ISQL is ;

Problem:
Two problems: 1) ISQL treats '--' as special SQL comment delimiter, even in quotes as in INSERT...VALUES 'a--z';

2) ISQL doesn't re-prompt correctly when the first prompt for a command file parameter recieves only a ';';

Cause:
The first problem is caused by ISQL enforcing an incorrect order of precedence. Comments should be stripped out, but not so when within quotes. The second problem is caused by a coding error.

Temporary solution:
For the first problem, users should avoid using two dashes in a row in literals. For instance, when inserting data, they are advised to use host variables in an application to pass the data containing the two dashes to SQL.

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KPR #: 4700908251 **CONTINUED**

For the second problem, avoid entering empty strings to the prompt for parameters when envoking command files.

Fix information:
The problem has been fixed so that ISQL will recognize when -- is withing quotes.

The problem will be fixed in Rel 7.0 pass 34.

Note : this only addresses the first problem, the second will addressed in SR #470911537

KPR #: 4700908285   Product: HP SQL/300   79725A   00.00

One-line description:
HPSQL Alignment error(DBERR 4200) when using column of type DATETIME.

Problem:
For a Date/Time column referenced in a query, user gets "HP SQL alignment err on column x in buffer 5 (DBERR 4200)" at preprocessing time.

Cause:
The calculation of offsets for Date/Time columns involves some re-adjustments due to the mapping of an internal type (Date/Time) to an external type (character array) that have different sizes. This calculation of these offsets in the buffer is incorrect in some cases, causing the out of alignment error.

Temporary solution:
It was suggested by the response center that the table be defined with all columns NOT NULL, then the Date/Time column selection seems to work. This workaround hasn't been thoroughly tested yet.

Fix information:
The fix has been done by correctly calculating the Date/Time and non Date/Time format information, including alignment adjustments.

KPR #: 4700908319   Product: HP SQL/300   79725A   00.00

One-line description:
C Preprocessor truncates .c filenames when using -i option.

Problem:
C preprocessor truncates long file names supplied with -i option on the invokation line. In the example given, the submitter has a file name with its full path that's 45 characters long.

Cause:
There is a current limit of 29 bytes for the file name processed by the C preprocessor.

Temporary solution:
Use relative paths to shorten the file name supplied.

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KPR #: 4700912998 **CONTINUED**

UX 7.0/XL 2.0	Not fixed	
XL 2.1	Not fixed	A.80.55.01
UX 8.0/XL 3.0		A.30.55.01

KPR #: 4700915462   Product: HP SQL/300   79725A   70.00

One-line description:
Nested query resulted in TRAP 13

Problem:
A floating point exception may occur when executing subqueries that depend on floating point values from outer queries. This is likely to result in a DBERR 4053 or DBERR 4054.

Cause:
A correlated subquery was executed before the outer query had any valid data for it to use. The subquery picked up an invalid floating point number from where it expected to find its outer reference value.

Fix information:
This problem will be fixed in HPUX 8.0 and MPEXL 3.0. It will also be fixed on a patch release available for HPUX 7.0.

KPR #: 4700921429   Product: HP SQL/300   79725A   70.00

One-line description:
PSQLCOB does not allow assigning integer values > 2,147,483,647

Problem:
Integer variables outside of the SQL declaration section generate DBERR 10925 "Integer value too large" when they are assigned values within the legal range of the compiler. Specifically, variables of type PIC S9(10) can't receive values > 2,147,483,647.

Cause:
SQL parser incorrectly checks syntax outside SQL declaration section.

Temporary solution:
A workaround is to assign values greater than 2,147,483,647 using a compute statement.

Fix information:
This fix will appear in ALLBASE/SQL version 3.0 for MPE/XL and version 8.0 for HP-UX.

KPR #: 4700923268   Product: HP SQL/300   79725A   07.26

One-line description:
Declare Cursor with 'LIKE' returns DBERR 4051 from JGEFMT(1)

Problem:
An HP SQL query involving 'LIKE' predicate, connected by about 20 ANDs/ORs gives DBERR 4051 (an internal error encountered

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KPR #: 4700909168   Product: HP SQL/300   79725A   00.00

One-line description:
DBCORE gets a file open error when the number of files open exeeds limit

Problem:
On Unix, file open may fail if system-wide open file limit is exceeded (not per-process limit).

Cause:
Cause is overflow of System File table.

Fix information:
Fix goes in:
Unix: 80.10.01
XL : not applicable

KPR #: 4700911537   Product: HP SQL/300   79725A   00.00

One-line description:
ISQL doesn't prompt correctly when user enters ';' for command file parm

Problem:
        2) ISQL doesn't re-prompt correctly when the first
           prompt for a command file parameter recieves only
           a ';';

Temporary solution:
For the second problem, avoid entering empty strings to the prompt for parameters when envoking command files.

Duplicate Service Requests: 4700911529 4700915280

KPR #: 4700912998   Product: HP SQL/300   79725A   00.00

One-line description:
Corner case found with PAGE ALLOCATION log recs where rollfwd may fail.

Problem:
In one of our internal online backup tests, we found a rather rare corner case where rollforward recovery (strictly archival rollforward recovery, not warmstart redo) could fail.

Cause:
This relates to PAGE ALLOCATE (DA) log records. Please refer to lab text (if you can).

Fix information:
Fix info will be updated when available. For now, we do not plan to fix this bug for UX 7.0/XL 2.0 OR XL 2.1 ALLBASE.

Fix update 8/24/90

Fix available in:
              UX   XL

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KPR #: 4700923268 **CONTINUED**

at routine JGEFMT(1) at preprocessing time).

Cause:
This problem is due to HP SQL failing to adjust predicate tree correctly
after Conjunctive Normalization Process. The improper nodes
gets detected in later phase of preprocessing and causes HP SQL internal
error.

Fix information:
Fix in a MPE/XL Release 2.0 Patch, and HP/UX 7.0 Patch.

KPR #: 4700923284   Product: HP SQL/300   79725A   07.26

One-line description:
Complex query with OR predicate runs out of memory and returns TRAP 68

Problem:
The customer query has a very complicated WHERE clause
With 53 AND's and 13 OR's. This query runs for over an
hour then aborts with a data memory protection trap.
(TRAPS 68)

Cause:
For MPE/XL Release 2.0 and HP/UX Release 7.0, ALLBASE/SQL

was enhanced to optimized OR predicates. As part of the
implementation for OR optimization, the predicates must be
normalized in order for optimization to be taken advantage
of.

For this complicated query, the normalization process is
taking over an hour, and also running out of memory.

Checks should be made before normalization starts to see
if it is feasible time wise. If the query is too
complicated, OR's would not be optimized but run similar
to previous releases.

Fix information:
Fix in a MPE/XL Release 2.0 Patch, and HP/UX 7.0 Patch.

KPR #: 4700923300   Product: HP SQL/300   79725A   07.00

One-line description:
Null Indicator set to 4 on select of dec(4,0) into S9(4) COMP-3 field.

Problem:
The NULL indicator was set to 4 on the FETCH, even though
the columns were numeric.(DECIMAL) Setting of the indicator
variable for truncation should only occur on non-numeric
data types.(CHAR/VARCHAR/DATE/TIME/DATETIME/INTERVAL and
any future non-numeric types)

In this instance, the appropriate host variable was used
in the COBOL application, but it consumed only 3 bytes

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KPR #: 4700923300 **CONTINUED**

of storage, whereas HP SQL stores decimal columns in
4 or 8 bytes. HP SQL detected the length difference, and
incorrectly set the indicator variable. It should not
be set for numeric types. Numeric types would cause run
time underflow/overflow conditions it the precision is
loss due to the target host declaration.

Cause:
HP SQL was not checking the source data type when
generating code for setting the indicator variable
for data truncation.

Fix information:
Fixed in HP SQL/XL 2.1 Release.

KPR #: 4700923318   Product: HP SQL/300   79725A   07.00

One-line description:
Packed decimal overflow on operation CONVERT.   (DBERR 2605

Problem:
A UNION of three queries returned DBERR 2605
'Packed Decimal overflow on operation CONVERT'. 2
columns of type char(16) and decimal(10,2) are being
projected. In the first two queries, the char column
doesn't allow null values, but the decimal column does.
The third query allows nulls in the char column, but not
the decimal column.

This forces a conversion for the UNION operation since the
projected columns do not match identically.(data type, length,
and null length)

When the query was executing, DBERR 2605 was returned.

Cause:
The run time routine for UNION was executing the convert
code when a source was at end of scan on a NEXT call.
It would not execute the compare or move code, but this
execution of convert code on what-ever is in the buffer
could cause overflow/underflow conditions on numeric data
types.

The fix is not to execute convert code on a NEXT call, if
a source is at end of scan.

Fix information:
This fix should go into a 7.0 patch for HP SQL version
A.07.00.17.
Fixed in HP SQL Patch Release A.07.00.17 on HP/UX, and
A.20.17 for MPE/XL.

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KPR #: 4700923334   **CONTINUED**

Fix information:
Fixed in a PATCH for ALLBASE/SQL for HP/UX 7.0 and MPE/XL 2.0.

KPR #: 4700923342   Product: HP SQL/300   79725A   07.00

One-line description:
"Invalid decimal precision error" on UNION command with decimal data.

Problem:
It is probable to get a DBERR 2430 "Invalid decimal precision ! - Allowed range is 1-15." when performing a UNION on decimal columns. ALLBASE/SQL is to compute the result data types. If column n is a decimal data type being projected in a UNION, the result data type is to be computed based on the merged data types of all columns in the nth position of the SelectList.

Cause:
When ALLBASE/SQL is computing the merged result format of two decimal columns, it would determine the result precision and scale of the result based on the two decimal columns precision and scale. The problem is that it would not verify the result precision was not greater than the maximum precision allowed 15.

Fix information:
Fixed in a PATCH for ALLBASE/SQL HP/UX 7.0, and MPE/XL 2.0.

KPR #: 4700923367   Product: HP SQL/300   79725A   07.00

One-line description:
Two COMMIT WORK with DDL disabled and KEEP CURSOR in effect causes hang.

Problem:
With DDL off, and KEEP CURSOR in effect, two COMMIT WORK statements with no SQL statements in between cause a hang on the next BEGIN WORK.

Cause:
The process gets hung when it is attempting to allocate memory off of the free memory list. This list was corrupted by the re-use of sections (saved due to DDL off) of a KEEP CURSOR. The first time the section is used, the KC makes a shadow heap. When done, it frees that heap, but (before the fix) does not reset the pointer to it. When the next KC reuses the section and needs to create the heap, it starts by re-freeing the heap (since the pointer is not nil). Thus, the same memory gets freed twice and corrupts the free memory list, causing the next allocation to fail.

The fix is to make sure to reset the KC heap pointer to nil after it is freed.

                                           - HP SQL/300 -

KPR #: 4700923326   Product: HP SQL/300   79725A   07.00

One-line description:
Random DBERR 2605 errors with UNION commands.

Problem:
Even though the same error was being returned as in SR 5000574418, this problem was distinct in itself and different.

The queries that failed after a certain repetition, had NULL values returned in the result for some DECIMAL fields. There was a problem with the executable tree built when conversions were necessary to perform a UNION command. In NTL's case, 29 columns were involved in the UNION and there were 2 sources to the UNION. The 29 columns were not exactly the same data types, as the result of the UNION. Thus some conversions were necessary to perform the UNION.

The problem was that the code generated for the conversion was not correct. If a NULL is returned, a conversion should not be done, but rather setting the NULL indicator. While executing a convert on a decimal column which was NULL, a DBERR 2605 was generated when the value was garbage enough to cause a decimal overflow.(The value is not set in the case of a NULL, but only the NULL indicator. Therefore it was random when the query would get DBERR 2605)

Cause:
At preprocess time, the run tree for the UNION command, which involved conversions, was not built correctly. Convert instructions would be executed at run time even in cases when the field value was NULL. This could result in overflow/underflow conditions for NUMERIC data types.

Fix information:
Fixed in an ALLBASE/SQL Patch to HP/UX 7.0 and MPE/XL 2.0.

KPR #: 4700923334   Product: HP SQL/300   79725A   07.00

One-line description:
DBERR 2413 returned with large number of OR INDEX predicates.

Problem:
It is possible that existing queries that ran prior to HP/UX 7.0 or MPE/XL 2.0, would fail with DBERR 2413. A patch was made to resolve 4700566666, but 1 situation was not taken care of.

This situation is when an index column is OR'ed more than 15 times or so. This situation will result in DBERR 2413.

Cause:
The fix made to 4700566666 did not take into account this situation.

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KPR #: 470923367 **CONTINUED**

Fix information:
This fix will appear in a patch release of ALLBASE/SQL XL 2.0.

KPR #: 4700926865   Product: HP SQL/300   79725A   00.00

One-line description:
DBERR 4050 internal error in JBIREF(1) when selecting from a view.

Problem:
When using a correlation name in a SELECT from a VIEW
which contains a DISTINCT node in the SelectList,
DBERR 4050 "HP SQL internal error in JBIREF(1). (Node
DISTINCT out of context)" is returned when executing
the SELECT.

Cause:
When binding the SELECT statement, a flaw in logic in
binding the correlation name generated the error
condition. The code didn't expect to ever see a
DISTINCT, but as the example shows, it is possible.

Temporary solution:
The error can be avoided by removing the DISTINCT from
the view and putting the distinct in the SELECT statements
on the view, or by not using correlation names when
selecting data from a view which has a DISTINCT in the
SELECTLIST.

Fix information:
Fixed in ALLBASE/SQL Release HP/UX 8.0 and MPE/XL 3.0.

KPR #: 4700929679   Product: HP SQL/300   79725A   07.00

One-line description:
DBERR 4053 may be returned when optimizer not detecting over/underflow

Problem:
There are many cost calculations in the optimizer that
have could result in float underflow/overflow conditions.
The code was written to nicely trap these conditions and
not abort back to the user with DBERR 4053. For the
300 only, the code would always return a DBERR 4053 when
an abort occurred in the optimizer.

Cause:
The code was not checking against 300 abort codes
when determining the type of abort that occurred. Thus
the code wasn't handling any 300 aborts, but rather
escaping back to the user with a DBERR 4053 abort
error.

Fix information:
Fixed in an ALLBASE/SQL PATCH for HP/UX 7.0.

        - HP SQL/300 -

KPR #: 470929687   Product: HP SQL/300   79725A   70.00

One-line description:
Over/underflow may result due to incorrect cost computation in optimizer

Problem:
The optimizer was computing one of the plan values
(number of sort rows) with an unitialized and
incorrect plan. The results could lead to
inaccurate best plan calculation. On the 300,
DBERR 4053 could also occur as a result of another
problem with this one. (see 4700929679)

Cause:
A calculation within the optimizer was using an
incorrect variable in a calculation. The variable
was uninitialized and could be equal to almost
anything at run time.

Fix information:
Fixed in an ALLBASE/SQL PATCH for HP/UX 7.0 and
MPE/XL 2.0.

KPR #: 4700933028   Product: HP SQL/300   79725A   20.29

One-line description:
BULK FETCHES with KEEP CURSOR WITH NOLOCKS cause DBCORE Internal err 184

Problem:
The problem is when user is doing the bulk fetch to the
end of scan, if he does another fetch, he get
a DBCore internal error 184 instead of tuples not found
which he's supposed to get.

Cause:
The cause of this problem is when the end of scan is reached
when executing the fetch, there is a internal field at the
scan control not reset back to its valid value.

Fix information:
Fixed in an ALLBASE/SQL PATCH for HP/UX 7.0 and
MPE/XL 2.0.

KPR #: 4700933788   Product: HP SQL/300   79725A   70.00

One-line description:
NEW and DISPOSE called a lot while executing an SQL program.

Problem:
Every execution of a section when running an application
program would cause ALLBASE/SQL preprocessor code to call
NEW and DISPOSE which is a performance issue.

Cause:
The logic in the preprocessor run time module which calls
ALLBASE to execute a section was using NEW and DISPOSE.

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KPR #: 4700933788 **CONTINUED**

This code was reworked not to call NEW and DISPOSE which improves performance.

Fix information:
Fixed in ALLBASE/SQL Release HP/UX 8.0, and MPE/XL 3.0.

KPR #: 4700937037   Product: HP SQL/300   79725A   08.55

One-line description:
FORTRAN preprocessor generates syntax error for valid compiler options.

Problem:
The FORTRAN SQL preprocessor generates error messages
DBERR 10944 (Unrecognized syntax encountered. Parse aborted.) or
DBERR 10994 (Syntax error in option specification.) for valid
compiler options which follow documented syntax rules.

Cause:
The FORTRAN SQL preprocessor handles dollar signs '$' incorrectly.
Code is checked following syntax rules for the Pascal compiler instead
of the FORTRAN compiler.

Temporary solution:
There is no temporary fix except to delete the affected compiler
option line from the source code.

Fix information:
This fix will be made available in ALLBASE/SQL released on
HP-UX version 8.0

KPR #: 4700938225   Product: HP SQL/300   79725A   07.00

One-line description:
DBCORE abort (internal error 3822) in a KEEP CURSOR application.

Problem:
Several problems were noticed in this single-user application.
Most of them were not reported by the customer.

a. A KEEP CURSOR application aborted inside the LOCK allocation
    code in ALLBASE.

b. Following that, this process kept going on (i.e. the PIN was
    still alive).

c. Subsequent to this, other processes started hanging on locks
    held by this (technically) dead process.

Now, we also found other internal errors like 1058 and 1049 in
dump files on disk. But surprisingly, the customer did not report
these errors. Clearly, the exception handling in the application
is not trapping all these errors (especially on the RELEASE
command). This needs further investigation.

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KPR #: 4700938225 **CONTINUED**

Cause:
So far, what we have found is that a lock control block
is partially orphaned. If you can see the LAB TEXT, please
do, otherwise it is perhaps enough to say that there is
internal corruption in the lock linked list.

This is WHAT is happening. We do not know WHY as yet.

CAUSE TEXT update 9/19/90

There is an optimization in DBCORE where it always keeps
track of the "current" scan that is being operated on. If
there is a current scan, then any locks acquired will be
associated with this scan. (Note also that locks were never
associated with scans before CS/RC and KC came along. They
were always associated with the transaction only). In other
words, you will not see this problem in RR.

When we have a SORT operation (ORDER BY, GROUP BY, DISTINCT),
we open a scan on the base table, call the sort manager to
perform the SORT operation, and close the scan on the base
table. But we were not setting the "current scan pointer"
to NIL. Now, the only types of locks we can acquire without
having another scan opened are low level directory locks.
If we do that, these locks will now get associated with a
scan that has been closed (but its control block is still
hanging around in the heap somewhere).

Now, someone else comes along and opens a scan on some other
table, gets the same control block from the heap etc etc.
The count fields in the block are all messed up at this point.
At the time of releasing these locks, KEEP CURSOR selectively
keeps some locks across transactions. It will now keep some
extra "orphan" locks that can simply not be accounted for.

Fix information:
The fix is simple. At the end of a SORT operation, we should
just set the current scan pointer to NIL.

Fix available in:

		UX	XL
UX 7.0/XL 2.0		A.07.03.44	A.20.03.44
	XL 2.1		A.21.24
UX 8.0/XL 3.0		A.80.57.01	A.30.57.01

The XL 2.1 version number is tentative.

                    - HP SQL/300 -

KPR #: 4700939512   Product: HP SQL/300   79725A   70.00

One-line description:
A potential undetected deadlock with RU application in a loaded system.

Problem:
Potential undetected deadlock in a very loaded system.

CAUSE TEXT:

RU transaction still get system locks. May run into a deadlock.
The fix will make the transaction abort and not hang the system.

FIX TEXT:

fixed   XL   UX
             A.30.00   A.80.00

KPR #: 4700941633   Product: HP SQL/300   79725A   70.00

One-line description:
Migrating a DBE with DDL disabled caused DBCore error 134 in CREATE FILE

Problem:
If DDL is disabled for a DBEnvironment, then the SQLMIGRATE
CREATE DBEFILE command will fail with the following messages:

*** DBCore error. (FNC 34, RC 134, 200220, ...)

Attempt to CREATE DBEFILE in <DBEnvironmentName> failed.

Cause:
The CREATE DBEFILE command is a DDL operation. If DDL is disabled,
then the command will fail.

The CREATE DBEFILE command in SQLMIG is provided in case the PREVIEW
command indicates that more space must be added to the SYSTEM
DBEFILESET. A CREATE DBEFILE command must be issued followed by
an ADD DBEFILE comand to add space.

Normally, the customer would use SQLUTIL to enable DDL mode before
adding space to a dbefileset. In the migration process, it cannot
be guaranteed that the new SQLUTIL will work against an old
DBEnvironment. So, the SQLMIGRATE CREATE dbefile command should
enable DDL mode, if necessary, in order to guarantee that the
command will succeed.

Fix information:
The fix is to temporarily enable DDL. After the CREATE DBEFILE
command is complete, the DDL-mode will be restored to the value
that existed before the command was issued.

The fix is in the HPUX 8.0 and MPEXL 3.0 releases.

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KPR #: 4700941799   Product: HP SQL/300   79725A   02.00

One-line description:
COBOL PP inserts 1-byte filler for variables outside DECLARE SECTION.

Problem:
The COBOL preprocessor inserts 1-byte fillers in record
declarations which appear outside the SQL DECLARE SECTION.
The filler byte is inserted before odd-byte decimal data
declarations. The insertion of filler bytes should not
occur outside the SQL DECLARE SECTION.

Cause:
This problem is caused by a defect in the COBOL preprocessor
which does not recognize the scope of the SQL DECLARE SECTION
when scanning variable declarations. The preprocessor must
recognize when it is scanning inside/outside the SQL DECLARE
SECTION.

Temporary solution:
A temporary fix can be made by manually removing the preprocessor-
inserted filler bytes from the modified source file generated by
the preprocessor. Remove only those filler bytes which appear
outside the SQL DECLARE SECITON. Do not remove the filler bytes
which are inserted within the SQL DECLARE SECTION.

Fix information:
This fix will be made available on HP-UX version 7.0

KPR #: 4700942342   Product: HP SQL/300   79725A   07.00

One-line description:
DBCORE error 181 is returned on fetch from a keep cursor

Problem:
DBCore internal error 181 in KC NOLOCKS test case.

Cause:
Since all SQLCORE-DBCORE fetches are BULK in nature, it is
possible for DBCORE to get end-of-scan during a single
FETCH. DBCORE does remember that fact for this scan, but
if SQLCORE makes the next FETCH call, DBCORE will attempt
to position itself on the tuple following the last tuple
fetched.

However, after the end-of-scan, the last tuple id known to
DBCORE contains garbage.

Fix information:
Fix consists of checking the end-of-scan indicator before going
on with the FETCH call.

Fix available in:

	UX	XL
UX 7.0/XL 2.0	A.07.00 45	A.20.00.45

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KPR #: 4700942342 **CONTINUED**

```
     XL 2.1                          TBD
UX 8.0/XL 3.0    A.80.57.01      A.30.57.01
```

KPR #: 4700945683   Product: HP SQL/300   79725A   70.00

One-line description:
Slow performance on join of tables

Problem:
Customers may experience poor performance on queries when the predicate involves columns with non-uniform data distribution.

Cause:
Currently, the SQLCore optimizer assumes uniform distribution of data values in columns. When this assumption is not justified by estimates of selectivity, and therefore those of the sizes of intermediate results, may be inaccurate. A non-optimal access plan (especially a non-optimal join order) may be chosen, resulting in poor performance.

KPR #: 4700946400   Product: HP SQL/300   79725A   00.00

One-line description:
Need to increase the SQLUTIL max runtime control blocks constant.

Fix information:
PASS 47 for D.0 will include this fix.(10/23/90 is the expected build date)

KPR #: 4700946715   Product: HP SQL/300   79725A   08.56

One-line description:
Incorrect error message (DBERR 2910) when OPEN CURSOR is used.

Cause:
When the same host variable names are used in the USING CLAUSE, they are treated as one which caused the problem.

Fix information:
The problem will be fixed in the release E.1 '80.57.00'.

KPR #: 4700946814   Product: HP SQL/300   79725A   07.00

One-line description:
DBERR 4000 with five LIKE predicates separated by logical OR.

Problem:
A SQL query with more than 4 OR'ed LIKE predicates aborts with a DBERR 4000 HP SQL code buffer overflow. LIKE predicates are expanded with boundary checkings, and OR-AND predicates are further normalized to conjunctive form. Many predicates are added to the query. Lots of code need to be generated to handle LIKE and other predicates operations. With a limited amount of code buffers, code buffer overflow occurs for this query with table scan.

KPR #: 4700946814 **CONTINUED**

Cause:
This is due to the LIKE predicates are expanded with boundary checkings, and the OR-AND predicates are further normalized to conjunctive form. Many predicates are added to the query. Lots of code need to be generated to handle LIKE and other predicates operations. With a limited amount of code buffers, code buffer overflow occurs for this query with table scan.

Fix information:
Fixed in a MPE/XL Release 2.0 Patch and HP/UX 7.0 Patch.

KPR #: 4700948133   Product: HP SQL/300   79725A   00.00

One-line description:
HPIMAGE/DBCORE pass 34 page corruption bug during B-tree migration

Problem:
B-Tree corruption was detected in an HP IMAGE PCR (this happened on ALLBASE/7.0 Pass 34.

Cause:
The earlier fix to this B-Tree corruption was done first in UX 7.0/XL 2.0. Please refer to the following SR numbers:

```
4700-859066 (800) B-Tree corruption in parent key updates
4700-871806 (900) Same as above
4700-875468 (300) Same as above
```

The above fix was made available in ALLBASE/7.0 Pass 25. But that fix did not take care of tuple migration across B-Tree pages. This is what caused the new problem.

Fix information:
Fix available in:

```
                    UX                    XL
UX 7.0/XL 2.0    A.07.00.46      A.20.00.46
```

KPR #: 4700949016   Product: HP SQL/300   79725A   70.00

One-line description:
CURRENT_DATETIME function is not accurate as its format requires.

Problem:
Function CURRENT_DATETIME is not as accurate as required by format. The precision is not down to milliseconds as specified.

Cause:
The function always puts zeroes in the FFF field which displays the thousandths of a second. The code to get the current datetime value calls OS dependent intrinsic calls which do not return milliseconds. A fix will be made to call intrinsics which return the accurate precision required.

KPR #: 4700949685   Product: HP SQL/300   79725A   70.00

One-line description:
incorrect result from retrieving a default value from varbinary column

Problem:
The test case here actually puts 708 byte character string into
a varbinary column as a default value. After a insert with c1
the value of c2 should be 708 byte default value, but it is not.

Cause:
    There are two buges revealed by the test case. The first one is
fixed at SR#4700942623, the number of the tuples is not calculate
correctly when putting a character string into varbinary column.
The second bug is caused by not enough space allocated when the
default value is fetching from the system catalog.

Fix information:
The fix for this SR will be in HPUX8.0, MPE/XL3.0

KPR #: 4700949701   Product: HP SQL/300   79725A   70.00

One-line description:
Incorrect char string is displayed when it's a default val to varbin col

Problem:
A character string is assigned to a varbinary column as its
default value, the character string is not stored correctly.

Cause:
Internally one byte binary in hex takes two byte ascii to
represet, however, if assign character string to binary
no coversion needs to be done. One char goes to one byte
storage. There is a miscalculation at the storage size
for assigning char to binary type.

Fix information:
The fix will go to HP-UX 8.0 and MPE/XL 3.0

KPR #: 5000260547   Product: HP SQL/300   79725A   01.00

One-line description:
wrong user used by sql for authorization after an su was done

Problem:
Wrong user used by SQL for authorization after an "su" was done.

Cause:
The authorization routines were using 'cuserid' from the
system library to check who the current user is. 'cuserid'
actually tries to check who they logged on as.

Fix information:
The authorization routines now use 'getuid'.

Signed off 05/23/89 in release X00.00

                    - HP SQL/300 -

KPR #: 5000484352   Product: HP SQL/300   79725A   01.10

One-line description:
Data or Index space exhausted in DBEFILE0 (DBERR 2502).

Problem:
There was a problem with HP SQL with re-issuing transaction
id's. SQL would not free up temporary space in the system
dbefileset, with a scenario as described in the submitter
text. Error 2502 would result.

Cause:
As described in the problem text.

Fix information:
Fixed in HP SQL/300 Release 2.0.

Signed off 12/21/89 in release A20.00

KPR #: 5000566836   Product: HP SQL/300   79725A   07.00

One-line description:
DBERR 4104 - shared memory failure on S300 series

KPR #: 5000566851   Product: HP SQL/300   79725A   00.00

One-line description:
SQLUTIL STORE command truncates storefile names longer than 44 chars.

Temporary solution:
STORE command in SQLUtil truncates the file name when it's longer
than 44 characters, forcing the user to look for the file after
a successful STORE operation. A warning or even error message
should be generated to alert the user to the limit.

Fix information:
Fix scheduled for UX 8.0.   Exact versions will be provided
when the fix is available.

Duplicate Service Requests: 5000562322 5000562330 5000558155

KPR #: 5000568196   Product: HP SQL/300   79725A   00.00

One-line description:
SQLUTIL STORE gives confusing message with write-protected directory.

Problem:
When trying to perform a STORE in SQLUtil to a directory that's
write-protected, the user gets messages that are misleading.

Cause:
The error condition handling should be enhanced to give more
meaningful data.

Temporary solution:
When trying to perform a STORE in SQLUtil to a directory that's

                    - HP SQL/300 -

KPR #: 500568196 **CONTINUED**

write-protected, the user gets messages that are misleading.

Fix information:
This problem will be fixed in UX 8.0. The correct system error no. will be returned.

KPR #: 4700685560   Product: HP SQL/300 C APG   79725-90014   88.02

One-line description:
Compilation statement specifies libraries in incorrect order.

Problem:
In chapter 1 the order of libraries in the compilation statement is incorrect.

Fix information:
The order of libraries will be changed to:
"cc.source.c -lsql -lheap2 -lportnls -lpc"
This change will be made in the next edition for release 7.0, where the information for the Series 800 and Series 300 can be found. The part number is 36217-90014.

Duplicate Service Requests: 1650079939 1650079954 4700503664

KPR #: 4700879403   Product: HPC++ COMMON   HPCPLUSPLUSA   00.01

One-line description:
Can't compile with <starbase.c.h>. Undefined c_draw2d(), c_move2d().

Problem:
The <starbase.c.h> header file does not define c_draw2d()
and c_move2d().

Fix information:
Fixed in A.02.10

KPR #: 4700879411   Product: HPC++ COMMON   HPCPLUSPLUSA   00.00

One-line description:
sys/ns_ipc.h file not converted for HP C++.

Problem:
The <sys/ns_ipc.h> include file not converted for HP C++

Fix information:
Fixed in A.02.00

Signed off 04/12/90 in release A02.00

KPR #: 4700880393   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
unmamed bit fields are initialized, even in ANSI mode (+a1).

Problem:
According to the ANSI Draft Standard for the C language (December 7,
1988, Section 3.5.7), unnamed structure members are ignored during
initialization. Cfront, even in its ANSI mode (+a1), ignores this
and applies initializers to fields, one-for-one, unnamed or not.

Fix information:
Will be fixed in A.03.00

KPR #: 4700880401   Product: HPC++ COMMON   HPCPLUSPLUSA   00.04

One-line description:
DNTT_LABEL's address field not set correctly

Problem:
Due to a bug in the series 800 C compiler, if a label is
put on a block (i.e. just before the opening "{" of the block)
then the debug information for the label is incorrect.

Temporary solution:
This problem is not severe : the only manifestation is that one
cannot set a breakpoint on the said label by using the "b #label"
syntax. A simple workaround is to set the breakpoint using the
line number that the label appears on: "b 4".

                        - HPC++ COMMON -

KPR #: 4700880401 **CONTINUED**

Fix information:
Will be fixed in A.03.00

KPR #: 4700880419   Product: HPC++ COMMON   HPCPLUSPLUSA   00.04

One-line description:
passing function pointer as parameter causes internal error

Problem:
passing function pointer as parameter causes internal error
3058 : bus error

Fix information:
Fixed in A.02.10.

KPR #: 4700880427   Product: HPC++ COMMON   HPCPLUSPLUSA   00.00

One-line description:
no include file for net_aton or net_ntoa(3N)

Problem:
There is no include file for net_aton or net_ntoa(3N).

Fix information:
Fixed in A.02.00.

Signed off 04/12/90 in release A02.00

KPR #: 4700883066   Product: HPC++ COMMON   HPCPLUSPLUSA   00.04

One-line description:
cfront creates this pointer for static member function

Problem:
Incorrect value was printed when the base class defines succor
as non-static and the derived class declares it as static.

Fix information:
Fixed in A.02.10.

KPR #: 4700884270   Product: HPC++ COMMON   HPCPLUSPLUSA   00.00

One-line description:
merger is zapping out SRCFILE entries that should not be zapped

Problem:
Functions with #includes inside their bodies cannot be debugged
properly, because the debug merger tool discards the source file
information inside the function bodies.

Temporary solution:
On the series 800, use compiler mode (i.e. do not use the +T flag).

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KPR #: 4700888925   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
CC doesn't cast 0 to an array type

Problem:
CC automatically casts the constant 0 to the NULL pointer of the appropriate type for assignments and function calls where the argument is a pointer. However, if the argument is an array, CC fails to make the cast.

Fix information:
Will be fixed in AT&T cfront 2.1

KPR #: 4700889394   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
Struct member w/in struct not declared in generated C code.

Problem:
Struct member within struct results in member not being declared in the generated C struct.
No complaints issue from cfront, but C compiler complains about the missing struct member.

Fix information:
Fixed in A.02.10

KPR #: 4700890368   Product: HPC++ COMMON   HPCPLUSPLUSA   00.00

One-line description:
Cfront core dumps in making a long signature name

Problem:
Cfront aborts when the mangled name that it creates for a function would be greater than 255 characters long.

Temporary solution:
Shorten the name of the function, and/or the class of which it is a member.

Fix information:
Will be fixed in HPC++ A.03.00.

KPR #: 4700890392   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
passing a float const arg with a cast to inline func is botched.

Problem:
Passing an argument to an inline function which consists of a floating-point constant with a cast cause incorrect code to be generated.

- HPC++ COMMON -

KPR #: 4700884270   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

Fix information:
Will be fixed in A.03.00

KPR #: 4700885749   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
Compile time for HPC++ is 2-3 times slower than bare cfront

Problem:
The compile time for HPCC is 2 to 3 time that of a straight port of the AT&T translator.

Fix information:
Will be fixed in A.03.00

KPR #: 4700886598   Product: HPC++ COMMON   HPCPLUSPLUSA   00.00

One-line description:
Need to build libC.ansi.a and add this file to the file set

Problem:
An ANSI version of libC.a needs to be built and submitted to the HP C++ product, so that people who compile with +a1 can link and run their programs.

Fix information:
Fixed in A.02.00

Signed off 04/11/90 in release A02.00

KPR #: 4700887976   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
CC +a1 generates bad C code -- cc fails

Problem:
The problem is that in +a1 (ANSI C) mode, cfront tries to put out full prototypes for external functions declarations, *including parameter names* (when it has no need to, and indeed should not).

Sometimes, it ends up putting out some garbage characters instead of the name, which causes C syntax errors.

Temporary solution:
Don't use +a1 mode in your application if you get this problem.

Fix information:
Fixed in HP C++ A.02.10.

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KPR #: 4700890848 **CONTINUED**

```
        x.g();
        y.f();
    }    y.g();        // error.

    /******
    * Current result:
    *    successful compile
    * Expected result:
    *    compile time error messages
    *
    ******/
```

Fix information:
Fixed in A.02.10

KPR #: 4700891754   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Bad debug info if only the enum tag from a class is referenced

Problem:
The current algorithm for determining when a class is referenced does
not include the reference to a tag defined in a class. This results
in an unresolved DNTTPOINTER, because an enum tag belonging to a class
is only dumped when the class itself is dumped.

Fix information:
Fixed in HPC++ A.02.00.

Signed off 08/08/90 in release A02.00

KPR #: 4700891762   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Forward struct references in inner scopes cause problems

Problem:
If an incomplete type is referenced in an inner scope, and another
incomplete type is declared in an outer scope, then the reference to
the inner incomplete type causes problems when emitting debug
information.

```
///
somefunc() {
    struct S* ptr = 0;
}

//If this line is commented, things will work
//This causes a new incomplete type to be declared
struct S;
///
```

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KPR #: 4700890392 **CONTINUED**

Temporary solution:
After including <math.h>, undef and redefine MAXFLOAT
as follows:

```
#include <math.h>
#undef MAXFLOAT
#define MAXFLOAT 3.40282346638528860e+38
```

Fix information:
Fixed in HPC++ A.02.10.

KPR #: 4700890830   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Pointers to members cannot always be assigned the constant zero.

Problem:
Cfront does not allow constant expressions that evaluate to
zero to be assigned to pointer to members which is in
violation of section 4.8 of the reference manual.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700890848   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Cfront allows a const object to not be passed to non const member func.

Problem:
* Description:
*   Cfront does not catch a call to a non-const function using a
*   constant object. Essentially the example from the language
*   reference manual found in section 9.3.1.

```
/* Executable example: */

// A member function that is non-const has a call from it from an
// object that is declared const, which is an error.  By the way,
// this example is essentially the same as the one in 9.3.1 of the
// reference manual

struct s {
    int a;
    int f() const;
    int g() { return a++; }
};

int s::f() const { return a; }

void foo() {
    s x;
    const s y;
    x.f();
```

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KPR #: 4700891762 **CONTINUED**

If the above example is compiled with debug on, you will get the
following message:

warning: Debug info may be corrupt. (1 unresolved reference)

Fix information:
Fixed in A.02.10.

KPR #: 4700891796 Product: HPC++ COMMON   HPCPLUSPLUSA   00.00

One-line description:
scope of names redeclared in inner scope sometimes leads to surprise

Problem:
The scope of variable names in the debugger mirrors the scope of
variables in the emitted C code , instead of the scope of variables
in the original C++ code. This may occasionally confuse the user.

For example:

```
void somefunc() {
    int j;
    j = 1; //Point A
    int i;
    i = 1;
}
```

In the emitted C code, both "i" and "j" are declared at the beginning
of the function; consequently in the debugger, if you are at "Point
A", the variable i is visible. If you attempt to print "i" at this
point, you will get the local "i", even though there may be a global
"i" visible at this point.

Temporary solution:
There is a simple workaround for *this* problem: simply

    p ::k

and you'll get the global.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700891804 Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
warning, not error, given for item declared as both signed and unsigned

Problem:
cfront does not give an error if both "signed" and "unsigned" are
specified on the same type.

Fix information:

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KPR #: 4700891804 **CONTINUED**

Will be fixed in A.03.00.

KPR #: 4700891846 Product: HPC++ COMMON   HPCPLUSPLUSA   00.01

One-line description:
cannot find function symbols for nameless class

Problem:
If a class has no tag, the debug information produced for the
class may be incorrect. This happens because the name mangling
algorithm used by the code that emits debug information does
not match the name mangling algorithm used by cfront when it
emits C code.

Temporary solution:
Avoid the use of classes which have no tags. If you have such a
class, make up a dummy tag name for the class.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700891853 Product: HPC++ COMMON   HPCPLUSPLUSA   00.02

One-line description:
names are given to nameless classes in debug information

Problem:
If a user has a class without a tag, cfront will make up a tag
name (e.g. __C1). This tag name will be visible in the debugger
when doing stack tracebacks and so on. This may confuse the
user.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700891879 Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
Should be error to init const pointer to non-const data with const data

Problem:
Should be error to init const pointer to non-const data with
const data. Lippman pg. 38 states that it is a compile-time
error to assign the address of a symbolic constant to a pointer.

Fix information:
Fixed in A.02.10.

KPR #: 4700891887 Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
demangler does not handle leading _ correctly on s300s

Problem:

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KPR #: 4700891887 **CONTINUED**

The demangler still does not handle s300 symbols correctly. The s300 linker always generates an extra leading "_" character. The demangler MUST strip this before trying to demangle anything.

Fix information:
On the s300 systems external symbols in an object file or executable have a "_" prepended to the external name. This only occurs in object or executable files. C++ mangled names occur in the resulting C source and the object files. The C source code names do not have a leading "_".

A fix on the s300 systems requires the demangling tool to handle both situations. Because of this c++filt has been enhanced on the s300 systems to take an option, -x, to handle mangled names in object files. Refer to the c++filt man page. nm++ is a simple shell script which calls c++filt with the -x option.

When using libdemangle.a, the leading "_" needs to be removed before the name is unmangled.

Having the demangler handle virtual table names would be useful and has been resubmitted as an enhancement request.

fixed in A.02.00.

KPR #: 4700891911   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
incorrect debug info emitted for local static cfront temps

Problem:
Under certain circumstances, cfront creates temporary variables which start with the name "_F". The debug information for such variables may be incorrect. Use caution when printing out the values of such variables in the debugger.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700891945   Product: HPC++ COMMON   HPCPLUSPLUSA   00.06

One-line description:
assignment to data member overwrites virtual base class pointer

Problem:
When calling a member function whose access has been changed using an access modifier, the proper address arithmetic to obtain a pointer to the correct base class is not performed, sometimes leading to data corruption.

This is only a problem when multiple inheritance is used, and the function whose access was modified belongs to the second or subsequent base class in a multiple-inheritance declaration.

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KPR #: 4700891945 **CONTINUED**

Fix information:
Will be fixed in A.03.00.

KPR #: 4700891952   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
Compiling with +d and -g is ~60% slower than just -g

Problem:
When the translator is given the +d option, it will take some extra time because many extra function bodies will be emitted when inlining is turned off; this also means that the -g option will take longer, since we need to emit debug information for all of these extra functions.

Fix information:
Fixed in A.02.10.

Some improvements have been made. However, the very nature of the +d option means that much more information is being output into the intermediate code, so more time is required to compile and generate debug information for it.

KPR #: 4700891978   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
CC +w: cc warning for virtual function call

Fix information:
Fixed in A.02.00 version. CC does not pass +w to C compiler anymore and thus avoids spurious warnings from cc.

Signed off 04/11/90 in release A02.00

KPR #: 4700892992   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
member function call returns wrong value if access declaration used.

Problem:
Member function of derived class returns wrong value for field of base class whose visibility was modified via access declaration.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700893008   Product: HPC++ COMMON   HPCPLUSPLUSA   00.01

One-line description:
initialization not required for const non-external struct

Problem:
Cfront allows declaring an unitialized non-external const of a

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KPR #: 470893065 **CONTINUED**

KPR #: 470893073   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront crashes when calling static function inherited from virtual base

Problem:
1. in find_in_base in find.c if the base is found to be virtual, they
   set the il field in the expr node to 1.

2. Later on in call_fct in expr.c, they check the value of el, and el
   is in the same union as il. Since they find el to be non zero, they
   try to dereference it and of course you get a segmentation violation
   because the pointer value is 1.

Fix information:
Will be fixed in A.03.00.

KPR #: 470893081   Product: HPC++ COMMON   HPCPLUSPLUSA   00.02

One-line description:
array of class objects containing const enum causes bus error

Problem:
array of class objects containing const enum causes internal
error 3058: bus error (or something nasty like that)

Fix information:
Fixed in A.02.10

KPR #: 470893099   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront puts out incorrect warnings about integral type compatibility.

Problem:
Cfront puts out incorrect messages about type compatibility between
integral types.

Fix information:
Will be fixed in A.03.00.

KPR #: 470893107   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
The debugger does not understand the void data type

Problem:
If you use a void type (e.g. a function returning void), the debugger
will incorrectly assume that it is "long".

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KPR #: 470893008 **CONTINUED**

struct type either at file or function scope

Fix information:
Fixed in A.02.10

KPR #: 470893016   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
pointer to the virtual table is being copied when it should not be

Problem:
The pointer to the virtual table is being copied when an object
is passed by value to a function. This results in wrong behavior
of the object in the called function (it should behave like an
object of the formal parameter type).

Fix information:
Fixed in HPC++ A.02.10.

KPR #: 470893057   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
typedef of unsigned long within func does not work.

Problem:
typedef of unsigned long within func does not work.

```
#include <stdio.h>
void function () {
    typedef unsigned long Ulong;
    Ulong l = 0;
    int s = sizeof (Ulong);
}

/* line 5: error 1588: "Ulong" undefined */
```

Fix information:
Fixed in HPC++ A.02.10.

KPR #: 470893065   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
Destructor cannot delete pointer to class returned by inline func.

Problem:

Class B's destructor unable to delete pointer to Class A when that
pointer was returned by an inline member function and when Class A
has a virtual destructor.

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KPR #: 4700893511   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Enum's aren't scoped properly

Problem:
Enum's are not scoped properly. Enum's defined in one function are
accessible in another function.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700893529   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Cfront allows duplicate declarations of enum's

Problem:
Cfront allows enum declarations to be duplicated within a
function, even to differing values.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700893537   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Incorrect handling of redefinition of classes in blocks

Problem:
Cfront does not handle redeclaration of classes within blocks.
If a class is defined both inside and outside a block, the
definition that is used is the one in the outside block, even
when used inside the block.

Cause:
Declaring a class in an inner scope with the same name as one
in an outer scope does not work properly.

The cause of this defect has not been diagnosed.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700893545   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Cfront does not catch calls to main, violation of sec. 3.4 in ref manual

Problem:
// Section 3.4 in the reference manual states that main () is not
// callable from any portion of the program. Cfront does not tag this
// as an error

main () {

KPR #: 4700893107   **CONTINUED**

Fix information:
Will be fixed in A.02.10.

KPR #: 4700893206   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
bogus error message for implicit conversion to int for unary op.

Problem:
Cfront does not seem to recognize the existence of a conversion
operator "operator int()" for a class when a unary operator is
applied to an object of that class.

Temporary solution:
Use an explicit cast on the object, as in:

- int(object)

Alternatively, for a unary "-", use the expression

0 - object.

KPR #: 4700893487   Product: HPC++ COMMON   HPCPLUSPLUSA   00.01

One-line description:
cfront allows user to define body for pure virtual function!

Problem:
CC doesn't give a compile time error when a body is defined for a pure
virtual function.

Cause:
CC doesn't give a compile time error when a body is defined for a pure
virtual function.

Fix information:
Will be fixed in A.03.00

KPR #: 4700893503   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Wide string literals are unimplemented

Problem:
Wide string literals have not been implemented in Cfront.

Fix information:
Will be fixed in A.03.00.

Duplicate Service Requests: 4700930289

KPR #: 4700893545 **CONTINUED**

```
}  main();
```

Cause:
Cfront does not detect a call of main within main itself. This problem has not been diagnosed further.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700893552   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Cfront does not correctly mangle member funcs. for tagless classes

Problem:
Member functions of tagless structs, classes or unions are not encoded correctly in the C intermediate output, causing them to potentially link up incorrectly with other existing functions.

Fix information:
Will be fixed in A.03.00

KPR #: 4700893578   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
reference to type void should get error

Problem:
Function of type 'reference to type void' is accepted by cfront. It should get an error.

Fix information:
Will be fixed in A.03.00

KPR #: 4700893586   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
redefinition of enum tag name in inner scope not allowed

Problem:
an enum tag name is defined at file scope. Attempting to redefine it (again as an enum tag) within a function elicits the error message:

     error: enum <tag_name> defined twice

Fix information:
Will be fixed in A.03.00

KPR #: 4700893610   Product: HPC++ COMMON   HPCPLUSPLUSA   00.01

One-line description:
CC gets internal error on abstract virtual operator declaration.

Problem:
CC gets internal error on abstract virtual operator declaration.

Fix information:
Fixed in A.02.10

KPR #: 4700893628   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront using +d option works incorrectly.

Problem:
When using the '+d' option which prevents the inlining of inline functions, bad C code is generated.

Temporary solution:
Do not use '+d'. The program will give the same results when functions are inlined.

Fix information:
Will be fixed in A.02.10

KPR #: 4700893651   Product: HPC++ COMMON   HPCPLUSPLUSA   00.02

One-line description:
incorrect warning given for overloading based on enum vs. int.

Problem:
When two overloaded functions are differentiated in their parameter list by an int versus an enum, an incorrect warning message is displayed at compile time specifying that the enum was converted to an int, implying that the function with the int is called. However, the code that is generated is correct and the function that specifies an enum is called.

Cause:
When two overloaded functions are differentiated in their parameter list by an int versus an enum, an incorrect warning message is displayed at compile time specifying that the enum was converted to an int, implying that the function with the int is called. However, the code that is generated is correct and the function that specifies an enum is called.

Fix information:
Fixed in HP C++ A.02.10.

KPR #: 4700894139 **CONTINUED**

}

Fix information:
Fixed in A.02.10 by AT&T.

KPR #: 4700894147   Product: HPC++ COMMON   HPCPLUSPLUSA   00.02

One-line description:
redefinition of default argument not caught as error by cfront

Problem:
CC doesn't give a compile time error when a default argument for a
function is redeclared.

Cause:
CC doesn't give a compile time error when a default argument for a
function is redeclared.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700894154   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Invalid code generation for pointers to static members.

Problem:
Normal pointers to members contain the offset + 1 from the base of
an object. When the code generation for a pointer to a static member
is done, the value of the address of the static member is used
since it is not attached to any object. When an access is made,
the address of the object is added to the address of the static
member decremented by 1 which will produce unpredictable results.

Fix information:
Fixed in A.02.10 by AT&T.
Pointers to static members are now disallowed.

KPR #: 4700894162   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
link-time unsat for derived class ptbl when using +e0/+e1 facility

Problem:
When using the +e0/+e1 options, you may sometimes encounter unresolved
symbols at link time. These symbols will start with the string "__ptbl".

Update by dcc 8/29. While this problem is fixed for 2.1 in the
translator (+T option), in the compiler we sometimes have unresolved
symbols starting with ".__vtbl".

Temporary solution:
Do not use the +e0/+e1 options. cfront 2.0 does a much better job
than 1.2 in determining when to emit virtual tables. The only time
cfront obeys the +e0/+e1 option is if you have a class in which all

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KPR #: 4700894113   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront does not complain about anon member and local var with same name

Problem:
cfront occasionally allows an anonymous union member to have the
same name as a local variable.

```
main()
{
    union {
        int  yell;
        char *yodel;
    };

    yell = 37;
    char yodel = 'A'; //This should not be allowed
}
```

Duplicate Service Requests: 4700891788

KPR #: 4700894121   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront does not handle static anonymous unions properly

Problem:
cfront generates bad code for static anonymous union as data member
of a class.

Fix information:
Will be fixed in A.03.00.

KPR #: 4700894139   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Variable with the same name as a label is not emitted.

Problem:
If a variable and label in the same scope have the same name, cfront
may incorrectly ignore the variable declaration when it is emitting
C code.

Cause:
// The variable "label" will not be emitted. This is caused by the
// emission routines not checking the n_list field for the variable
// declaration.

```
void foo ()
{
label:
    int label;

    label = 1;
    goto label;
```

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KPR #: 4700897009   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
allows declaration of uninitialized const structs, classes, & unions

Problem:
Defining an uninitialized non-external const struct, class, or
union using a previously declared tag name is incorrectly allowed
(cf. AT&T C++ 2.0 Reference Manual, Section 7.1.6).

Fix information:
Fixed in A.02.10

KPR #: 4700897017   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
member function declared volatile treated same as const

Problem:
A volatile member function, which changes a private member,
elicits the message:

    error : increment of member <class>::<member> of const struct.

Fix information:
Fixed in A.02.10, with a reasonable error message (not implemented:
volatile member functions).

KPR #: 4700898460   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
initialization of union unimplemented

Problem:
initialization of union using brace-enclosed initializer
is not supported.

Fix information:
Will be fixed in A.03.00

KPR #: 4700898478   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
line numbers not monotonic for inlined constructor

Problem:
Occasionally, the debug information generated for inline
functions has out-of-sequence line numbers, causing the
debugger to get confused about the corresponding code
locations.

Typical symptoms of this are the inability to set breakpoints
on certain statements or functions in a compilation unit,
or confusing messages from the debugger when it thinks it
is inside a different function than where it actually is.

Fix information:

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---

KPR #: 4700894162 **CONTINUED**

the virtual functions are declared inline. Avoid having such classes;
add a dummy non inlined virtual function to such classes, and provide a
dummy body for this function.

Fix information:
Will be fixed in A.03.00

Update 8/29/90. Fixed in A.02.10 for translator (by AT&T)
and for new compiler.

KPR #: 4700894188   Product: HPC++ COMMON   HPCPLUSPLUSA   00.02

One-line description:
like-named classes in two different functions disallow ptr to member

Problem:
Declaring two classes with the same name inside different functions
causes cfront to use the wrong type information when processing
the uses of the second class, causing spurious errors (or worse,
generation of incorrect code).

Fix information:
Will be fixed in A.03.00

Duplicate Service Requests: 4700942011

KPR #: 4700894204   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03

One-line description:
spurious error for initialized array parms

Problem:
If a function is declared with a default initializer for an array
parameter, a later definition of the function gets a spurious error
"bad initializer for array".

Fix information:
Will be fixed in A.03.00

KPR #: 4700894535   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
xdb may print the incorrect value for members of a virtual base class

Problem:
If a virtual base class in inherited directly and indirectly, xdb may
print incorrect values when printing the directly inherited base
class.

Fix information:
This has been fixed in the A.02.10 release.

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KPR #: 4700898478   **CONTINUED**

Fixed in A.02.10

KPR #: 4700900118   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront does not catch access violation when accessed mem is overloaded.

Problem:
Cfront gets lost when checking access restrictions on overloaded member functions, and as a result, allows incorrect accesses to protected or private member functions.

Fix information:
This has been fixed in the next release (HP C++ A.02.10).

KPR #: 4700906339   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Misleading message when a break occurs within {} in a switch statement.

Problem:
If the code after a case label contains a block with a declaration for a variable with a constructor, and there is a "break" within the block, the message about "statement not reached" (actually talking about the call to the destructor for the local variable) points to the wrong line (usually the first statement after the end of the block).

Fix information:
Will be fixed in A.03.00

KPR #: 4700906347   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Generated code jumps to address 0 instead of to virtual function.

Problem:
When the first non-inlined function of a class with virtual member functions is not defined, the program normally should not link (since the virtual table will never be generated).

However, when the program is compiled with symbolic debug, the compiler accidentally creates a garbage virtual table and links that in, resulting in a silently successful link, but execution errors at runtime when the object tries to use the virtual table.

Temporary solution:
The workaround is to define the bodies of all the member functions of a class.

Fix information:
Fixed in A.02.10. (The program as described will not link).

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KPR #: 4700898478   **CONTINUED**

Fixed in A.02.10

KPR #: 4700898734   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Typedef altered by cfront that invalidates future declarations

Problem:
When a typedef which is a multi-dimensional array is used as a formal parameter to a function, subsequent uses of that typedef outside the function result in spurious error messages.

Fix information:
Will be fixed in A.03.00

KPR #: 4700899401   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
initialization of AUTO struct (using +a1) gets bus error.

Problem:
```
/*
An automatic struct (but not an array, the other type of aggregate)
which is initialized in ANSI mode (using +a1), causes cfront to emit

CC: "foo.c", line 6: internal error 3058: bus error (or
    something nasty like that)

The command used was CC +a1 -c foo.c
*/

void foo()
{
    struct St {
        int i, j;
    } s = { 100, 200 };

}
```

Fix information:
Will be fixed in A.03.00

Duplicate Service Requests: 4700931659

KPR #: 4700900100   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Strstream operator<< occasionally appends garbage to output string.

Problem:
operator<< on strstreams occasionally append garbage characters at the end of the string.

- HPC++ COMMON -

KPR #: 4700906347   **CONTINUED**

KPR #: 4700908491   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
not implemented 2012: general initializer in initializer list

Problem:
Cfront is not able to handle addresses of globals as initializer
values for other global variables.

Fix information:
Fixed in A.02.10.

KPR #: 4700908509   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Bad C code generated with +d for class declared within a class

Problem:
The declaration of a class within another class can cause
CC +d to generate bad C code. The +d flag causes cfront to create
C functions for the nested class's methods as soon as they are
encountered; if they refer to the containing class's members, an
error results, since the containing class's structure has not yet
been defined.

Fix information:
Will be fixed in A.03.00

KPR #: 4700908517   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
garbled error message 1227 and internal error 3058 and bus error

Problem:
This file looks correct to me.Yet it generates a garbled
error message, and a bus error.

Note that the following error message has been shortened and
broken up over several lines for STARS consumption.

```
    CC -c bug.c
CC: "bug.c", line 14: error 1227: cannot deduce type for
overloaded"bug.c", line 14: CC: "bug.c", line 14:
internal error 3058: bus error (or something nasty like that)
Error code 1
Stop.
```

Fix information:
Will be fixed in A.02.10

KPR #: 4700908525   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Internal error 3058: bus error for simple syntax error

Problem:
A simple syntax error (mistyping the name of a constructor) causes
a bus error in cfront (causing it to crash).

Fix information:
Fixed in A.02.10

KPR #: 4700908533   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
not implemented 2020: cannot expand inline function with static var

Problem:
CC is unwilling to expand an inline function that has a static
variable. That being the case, CC should go ahead and make the
function non-inline, rather than generate a fatal error.

Fix information:
Will be fixed in A.03.00

KPR #: 4700908541   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
no "arg not used" warning for array args

Problem:
CC gives a warning if an argument to a function is not used.
Unless the argument is an array type. In this file, both "x"
and "y" are unused arguments, but only "y" is flagged with a warning.

Fix information:
Fixed in A.02.10

KPR #: 4700908558   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
internal error 3111: can't find vptr for some nested class definition

Problem:
This file has a nested class defintion in which the innter
class calls a member function for an instance of the outer class.
CC gives an internal error "can't find vptr".

Fix information:
Will be fixed in A.03.00

KPR #: 4700908566   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00
One-line description:
unclear constructor-argument error messages for normal errors
Problem:
Some of the messages given for illegally declared constructors are meaningless or unclear.
Fix information:
Will be fixed in A.03.00

KPR #: 4700908574   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00
One-line description:
phrase "struct A" can't be used in a type cast in struct A definition
Problem:
The phrase "struct A" can't be used in a type cast in the same statement in in which the structure is defined. The error message

   "bad initializer... (struct A * expected)"

is particularly confusing, since "struct A *" is what was typed.
Fix information:
Will be fixed in A.03.00

KPR #: 4700908582   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00
One-line description:
xdb++ -- empty classes show a member "__W1"
Problem:
The debug information generated for classes contain entries for some internally-generated symbols which are meaningless to the user.
Fix information:
Will be fixed in A.03.00

KPR #: 4700916627   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00
One-line description:
Bad function prototype for statfs: 2nd param should be struct statfs *.
Problem:
The header file <sys/vfs.h> contains an incorrect prototype for the function statfs(). The second parameter should be a struct statfs *, not a struct statfs.
Fix information:
Fixed in A.02.10

                              - HPC++ COMMON -

KPR #: 4700917161   Product: HPC++ COMMON   HPCPLUSPLUSA   00.03
One-line description:
Math.h lacks decls for abs(int) and abs(double), incompatible with ATT
Problem:
The /usr/include/CC/math.h header file is missing some declarations from the original AT&T source (in particular, declarations for abs(int) and abs(double)).
Fix information:
Fixed in A.02.10

KPR #: 4700919837   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00
One-line description:
CC +p -g: c++merge terminated with signal 11
Problem:
Certain small files, when compiled with symbolic debug (-g), cause a backend process (c++merge) to abort, leaving behind a truncated object file.
Temporary solution:
Compile this compilation unit without "-g".
Fix information:
Fixed in A.02.10

KPR #: 4700921759   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00
One-line description:
debuger prints name of local class member function incorrectly
Problem:
The debugger's "lp" command prints out the wrong information for a member function of a local class, when "+d" is turned on.
Fix information:
Fixed in A.02.10

KPR #: 4700921767   Product: HPC++ COMMON   HPCPLUSPLUSA   00.04
One-line description:
Conditional operator takes wrong path.
Problem:
When returning an object with a constructor from a const member function, if the return expression uses a (?:) expression, a lot of extra garbage is generated in the C code, a side effect of which is to always cause the ?: to evaluate to the false half.
Temporary solution:
Instead of a (?:) expression, use an if-then-else expression to store the value into a temp, and return the temp.
                              - HPC++ COMMON -

KPR #: 4700921767 **CONTINUED**

Fix information:
Will be fixed in A.03.00.

KPR #: 4700927459 Product: HPC++ COMMON   HPCPLUSPLUSA 02.00

One-line description:
Several func. prototypes missing from <X11/XHPlib.h>.

Problem:
The include file /usr/include/CC/X11/XHPlib.h is missing function
prototypes for many of the HP extension routines, e.g.
XHPConvertLookup(), XHPKeysymToRoman8(), XHPSetKeyboardMapping(),
etc.

Fix information:
Fixed in A.02.10

KPR #: 4700927467 Product: HPC++ COMMON   HPCPLUSPLUSA 02.00

One-line description:
<CC/dir.h> header has indented #defines, which affects /lib/cpp.

Problem:
The file <dir.h> has #define's that are indented from the left
column, which is handled properly by the default preprocessor, but
cannot be handled by the K&R preprocessor (invoked by the CC option
-Ac).

Temporary solution:
Do not use the -Ac option when compiling a source file which includes
<dir.h>.

Fix information:
Fixed in A.02.10

KPR #: 4700928325 Product: HPC++ COMMON   HPCPLUSPLUSA 00.03

One-line description:
union initialization in +a0: -- bad C code is generated, cc fails

Problem:
The declaraton of a variable whose type is a structure containing a
union causes CC to generate code that gets an error from /bin/cc.
CC evidently generates a C declaration of the variable that includes
a (normally no-op) initialization to { 0 }. However, a structure
containing a union may not be initialized in K&R C.

Fix information:
Fixed in A.02.10

- HPC++ COMMON -

KPR #: 4700931188 Product: HPC++ COMMON   HPCPLUSPLUSA 02.00

One-line description:
compiler puts out bad debug info for members of type static anon. union

Problem:
When a local class (i.e. a class declared inside a function) with a
static anonymous union as a member is compiled with -g, the debug
information will be slightly corrupt (an attempt to display that
particular class will result in an internal error message from XDB).

Fix information:
Fixed in A.02.10

KPR #: 4700931626 Product: HPC++ COMMON   HPCPLUSPLUSA 02.00

One-line description:
xdb++ -- "l" gets confused with breakpoint (using +d): bad debug info.

Problem:
When using +d, cfront occasionally emits bad debug information
for one-line inline member functions, like the following:

```
class ex {
  mem1() { /*body*/ };    // one-line function
  mem2() { /*body*/ };    // one-line function
  ...
};
```

The result of this bad debug information is that the user examine
the local variables of mem2() with "l" or "p".

Temporary solution:
The workaround is twofold:

(a) Break up the function definitions, and
(b) Insert blank lines between the function definitions,

as follows:

```
class ex {
  mem1()
  {
      /* body */
  }
  mem2()
  {
      /* body */
  }
  ...
};
```

Fix information:
Fixed in A.03.00.

- HPC++ COMMON -

KPR #: 4700931634   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
CC gens questionable C code; cc warning "Redeclaration of identifier"

Problem:
For a class with a static member, if the initialization declaration
for the static member outside the class is done without an
explicit initializer value, as in

    class A { static int mem; };   // missing initializer value
    int A::mem;

then the translator generates somewhat questionable code (which
happens to work under HP C, but gets a warning at compile time).

Temporary solution:
On the 800 only: don't specify the +T flag: this is a problem
only with the intermediate C code generation.

Fix information:
Fixed in A.03.00.

KPR #: 4700931642   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Int. error on array initializers for classes with user-def. constructors

Problem:
Cfront dies on array initializers for classes with user-supplied
constructors. This seems to be sensitive to the actual user
program: some cause cfront to abort, and some get away.

Temporary solution:
The workaround is not to initialize the array at the point of
declaration, but instead to initialize it at run-time (program
startup time).

Fix information:
Fixed in A.03.00.

KPR #: 4700931667   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
HP C++ error messages should be in 'standard' (/bin/cc) format

Problem:
Error messages from HP C++ are slightly confusing, in that the
error number and line number are in close proximity to each other,
leading to confusion.

Fix information:
Fixed in A.02.10.

KPR #: 4700931675   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
c++merge does not detect /bin/cc 'static' information

Problem:
If the environment variable CCOPTS (for the C compiler driver) is
set, and contains the flag "-y" (for C static analysis information),
the C++ compiler produces garbaged debug information.

Temporary solution:
Unset the CCOPTS environment variable, or remove the "-y" flag from
CCOPTS.

Fix information:
Fixed in A.02.10

KPR #: 4700934240   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
'sizeof variablename' as dimension in array decl. gets spurious errors.

Problem:
When "sizeof variablename" is used as a dimension for declaring
an array, CC gets a variety of spurious errors.

Temporary solution:
Instead of using "sizeof variablename", use "sizeof(type)", where
"type" is the actual type of the variable.

Fix information:
Fixed in A.02.10

KPR #: 4700936260   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
xdb fails to indicate that a member function has been declared "const"

Problem:
When printing a class definition (by using a \t or \T), xdb fails to
indicate when a member function has been declared "const".

Fix information:
Fixed in A.02.10.

KPR #: 4700942466   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Cfront crashes when a non-member function is declared as const.

Problem:
If the user declares a non-member function as "const" (i.e. with the
const keyword between the argument list and the body), then cfront
crashes with a "bus error, or something nasty like that", instead of
catching the semantic violation and printing an error message.

Fix information:

KPR #: 5000595447 **CONTINUED**

```
    }
    if (condition2) {
        /*statements*/
        goto done;
    }
    /*... other conditions ...*/
done:
    /* with cascaded if-then-else-if */
```

KPR #: 4700942466 **CONTINUED**

Fixed in A.02.10

KPR #: 4700945311   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
cfront doesn't always detect creating an instance of an abstract class

Problem:
If a base class is abstract, and if a derived class of this
base does not redefine any of the abstract base's virtual functions,
then cfront does not catch an attempt to instantiate an object
of this derived class (which is also abstract, because it did not
redefine its parent's pure virtual).

Attempts to call a virtual function through such an object result
in a core dump.

Temporary solution:
Redefine any of the parent's virtual functions, especially the
pure virtual functions.

KPR #: 4700945386   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Duplicate enumerators not caught in presence of a label

Problem:
Cfront does not complain about the same enumeration constant being
used illegally in different enumerated types, if the two type
declarations are separated by a label.

KPR #: 5000595447   Product: HPC++ COMMON   HPCPLUSPLUSA   02.00

One-line description:
Yacc stack overflow

Problem:
A function with a very large number of consecutive "else if (...)"
constructs can cause the compiler to overflow its parse stack.

This is typically seen when trying to emulate a "string switch"-type
construct (i.e. comparing a string against a few hundred string
values).

Temporary solution:
For a string switch, the easy workaround is to do a real "switch"
on the first character of the string, and then doing strcmp()'s
against the subset of string values that start with that character.

For other huge cascaded-if constructs, the workaround is to try to
break it up as follows:

```
    if (condition1) {
        /*statements*/
        goto done;
    }
```

KPR #: 4700905216   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
sieve manager is not deleting obsolete sieves

Problem:
The event sieve manager does not delete obsolete local sieves since
it doesn't find out when a local destination address in a sieve is not
longer valid.

If an application creates a sieve containing its local destination
address, and then exits without deleting the sieve, the sieve becomes
obsolete. However since the event sieve manager gets no errors when
it sends unconfirmed events to that sieve, it does not know that the
sieve is obsolete so it doesn't delete it.

The sieve will continue to exist until it is explicitly deleted,
or until the event sieve manager is restarted.

Fix information:
This defect will be fixed in release A.02.00.

KPR #: 4700907592   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
Unable to compile a managed object class with filter syntax attribute

KPR #: 4700907600   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
Misspelling of domainName field for CmotSystemID in the database.

Problem:
The DMS database is preloaded with a syntax definition for
CmotSystemID in the Internet module. The domainName field
of CmotSystemID was misspelled.

KPR #: 4700907618   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
A sequence or set syntax can only have 1 field with an identified value.

KPR #: 4700907915   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
Failure occurs on version access of instance with many attributes.

KPR #: 4700908079   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
Getting scoped versioned data fails if parent instance does not exist

---

KPR #: 4700902734   B1691A   02.00

One-line description:
<stdarg> macros don't work on the 300 if the last parm is a reference.

KPR #: 4700908921   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
OVeCnvAddr () always return -63001 even if input address is valid

Problem:
OVeCnvAddr() always returns an OVe_ERR_CONVERTADDRESS_UNKNOWN_TAG error, even if the tag of the input OVcAddress structure is valid.

Temporary solution:
Most OVeEventSieve objects that are created will not have to have a destination address attribute converted with OVeCnvAddr() and specified in the attribute list of the OVcCreateReq() call.
If no destination address is specified, a default destination address is used which is the address of the requester of the create request.
So applications can still create local sieves that send events to the application, and sieves on remote nodes that send events to the local node, without having to use OVeCnvAddr() or specify a destination address attribute.

Even if an application wants to create a sieve with a specific destination address, it can do this without using OVeCnvAddr(). Instead of specifying the address as an OVcAddress structure and using OVeCnvAddr() to convert it to an OVcValue structure, the application can directly specify the destination address in the OVcValue structure using the following OVcAddress template.

```
OVcAddress ::= SEQUENCE {
    tag    INTEGER {
        nodeName       (1),
        networkAddress (2),
        localAdress    (4)
    },
    union  OVcAddressChoice,

OVcAddressChoice ::= CHOICE {
    octetString    OCTET STRING,
    networkAddress NetworkAddress,
    integer        INTEGER
}
```

Fix information:
This defect will be fixed in release A.01.03

KPR #: 4700913459   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
op blocks not cleared when association is aborted

KPR #: 4700913467   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
On rose, rosy fatal errors, the association is not aborted or cleared.

KPR #: 4700917179   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
wrong type of results accepted (delete result is accepted for an event)

KPR #: 4700917476   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
request id's are non-negative, man pages say they are positive

Problem:

The man pages for the OVc*Req() say

RETURN VALUE
    Upon successful completion, this call returns a positive integer,
    to be used as a request id.

However, 0 is also a valid request id. The documentation should say that the functions return a non-negative integer to be used as a request id.

Fix information:

OVc API man page for OVc*Req have been updated.

RETURN VALUE
    Upon successful completion, this call returns a non-negative
    integer, which is used as request id.

KPR #: 4700917500   Product: OV NM SERVER 300 DEV 36985A   01.00

One-line description:
if doPSdata decodes an invoke w/o args, data struct is never freed

KPR #: 470093598   **CONTINUED**

Fix information:
fix is to modify PHIGS internal code to pass the correct parameters.

   _hp_INP_close_workstation in inp_intern.c calls
   _hp_INP_flush_device_events((Generic_WSL_dev_Type *)&device);
   and should call it as follows
   _hp_INP_flush_device_events(wsl_dev_entry);

The internal routine uses the parameter's address to compare to
another pointer to see if it is the same device. The cause of the
problem is that the code currently passes the address of a local
variable and it should pass a pointer to a global data structure.

The fix will likely show up in HP-PHIGS 3.0.

KPR #: 470094490   Product: PHIGS DEV. ENVIRON.   B1759A   02.00

One-line description:
PSCMR handles the definition of zero pseudo colours incorrectly [4,3,-1]

Problem:
Execute Summary:

When zero pseudo colours are specified as a colour mapping
representation table entry of type pseudo colour is defined,
two erroneous error messages are reported. A colour mapping
representation must be immediately defined to avoid leaving
colour mapping in an undefined state.

Detailed Summary:

Routine SET COLOUR MAPPING REPRESENTATION (pscmr) is used to
define colour mapping representation table entries. One of
the fields of each entry is the colour mapping method. When
the pseudo colour mapping method is selected, the application
must also define a number of pseudo colours, the pseudo
colours themselves, and a weight vector. It should be
acceptable to define zero pseudo colours. The application
might want to do this to effectively delete pseudo colours
from the colour mapping table since the number of pseudo
colours defined across all entries of the colour mapping
table is limited to the depth of the colour representation
table.

HP-PHIGS erroneously reports two errors when zero pseudo
colours are defined in this way. However the colour mapping
representation table entry is defined correctly with zero
colours. The error messages are as follows:

HP-PHIGS on HP-UX: Error 904 was detected in function 227
Input/Output error has occurred while sending data to a
                                        workstation
PSCMR

                        - PHIGS DEV. ENVIRON. -

KPR #: 470093580   Product: PHIGS DEV. ENVIRON.   B1759A   02.00

One-line description:
Cursor in wrong position when doing picking in Genesis window.

Problem:
Cursor is in the wrong position when doing picking or using default
locator pet in 98736 X window.

Screen behavior is that the PHIGS cursor does not appear on the screen
and the X cursor flashes in four positions on screen. The four
positions form a rectangle with one corner set to the position where
the PHIGS cursor should be and the other corner offset from that
position by a distance equal to the distance between the upper-left
corner of the window and the upper-left corner of the display. After
the flash, the cursor is displayed at the latter position.

PHIGS and X are both competing for the 98736 hardware cursor due
to a driver defect.

Temporary solution:
The drivers use check for an enviroment variable named,
SB_NO_HW_ECHO. The workaround is to set this variable after
X has been started but prior to starting a PHIGS application.

   set SB_NO_HW_ECHO=1 ; export SB_NO_HW_ECHO

Fix information:
The 98736 driver needs to be modified to not use the hardware cursor
when running to an X window. No code change for the rest of the PHIGS
library are necessary.

KPR #: 470093598   Product: PHIGS DEV. ENVIRON.   B1759A   02.00

One-line description:
Events are not flushed from queue when a workstation is closed.

Problem:
Events are not flushed when a workstation is closed.

If the PHIGS event queue has events pertaining to a workstation, when
that workstation is closed, the events are not flushed. Later, when
await event is called, the events are returned with potentially
invalid information. Any of the 3 return parameters may have invalid
values.

Cause:

The events were inadvertently not being removed at workstation close
time. The code has been modified to do so now.

Temporary solution:

A simple workaround is to call pflush (Flush Device Events) for each
logical device that was in event mode prior to calling pclwk (Close
Workstation).

                        - PHIGS DEV. ENVIRON. -

KPR #: 470093606   Product: PHIGS FORTRAN MNL.   B1759-90001   00.00

One-line description:
Cannot access reset_rawdev man page on-line

Problem:

Problem Description:

The man page for reset_rawdev (1) cannot be accessed on-line.
This is because the filename, /usr/man/man1.z/reset_rawdev.1, has
12 characters before the suffix. The filename must have 11 or
less characters before the suffix.

Temporary solution:

Workaround:

The man page can be accessed through the Reference Manual
hardcopy.

Fix information:

Proposed Fix (to be done in the future):

Rename the file to reset_rawde.1. This file will be accessed
even if the user accesses through "man 1 reset_rawdev".

- PHIGS FORTRAN MNL. -

KPR #: 470094290 **CONTINUED**

Starbase error 2049: Could not allocate memory.
    Procedure name: sbcheck
    File descriptor: 8
    Device file name: /dev/screen/0phigs
    Library location: PHIGS color (0)
    System errno: No such file or directory

HP-PHIGS on HP-UX: Error 125 was detected in function 227
Ignoring function, the total of the colour range fields
in all the table entries is too large
PSCMR

The application should immediately define a colour mapping
representation table entry (not necessarily the same entry as
was "zeroed") to leave colour mapping in a defined state.

Temporary solution:
There is really no getting around the extraneous
error messages. The application also must define
a colour mapping representation table entry immediately
after defining an entry with zero pseudo colours in
order to restore the colour mapping state.

One thing the application can do is to use its own
error handler to hide the two extraneous messages from
the user. If this is done, it must be recognized either
error can legitimately be reported by routine SET
COLOUR MAPPING REPRESENTATION (pscmr) in situations
other than when zero pseudo colours are being defined.

- PHIGS DEV. ENVIRON. -

KPR #: 400094342 **CONTINUED**

Fix information:
Has been fixed for release 8.0. However, Access Control Lists may be deleted at 8.0 or later based on industry trends.

KPR #: 400094615 Product: PROGRAMMERS DOC SET 98794A   06.05

One-line description:
truncate(2) still contains an invalid BUGS section;

Problem:
truncate(2) manpage contains invalid BUGS section.

Temporary solution:
Ignore BUGS section in truncate(2) manual entry. Kernel does not behave as indicated.

Fix information:
Has been fixed at 7.0.

Signed off 12/18/89 in release A07.00

KPR #: 400094623 Product: PROGRAMMERS DOC SET 98794A   06.05

One-line description:
open(2), close(2) (and others?) don't mention behavior w.r.t. sockets

Problem:
open(2), close(2), and others do not describe behavior with respect to sockets.

Cause:
Enhancement request. Sockets treated same as files.

Fix information:
No fix planned at present time.

KPR #: 400094631 Product: PROGRAMMERS DOC SET 98794A   06.06

One-line description:
Missing asterisks in sigsetops(3C) manual entry in SYNOPSIS

Problem:
Asterisk missing in source file for sigsetops(3C) manual entry.

Temporary solution:
Add asterisk in front of set in lines that resemble the following in SYNOPSIS:

```
sigset_t *set;
```

Fix information:
Has been fixed at Release 7.0.

Signed off 12/18/89 in release A07.00

KPR #: 400090860 Product: PROGRAMMERS DOC SET 98794A   06.02

One-line description:
Sys Admin Manual says do gettools with floppy 8, should be floppy 3

Problem:
The System Administrators Manual, in the section that talks about Floppy update (page 334) says to use floppy 8 when doing the update. It should say floppy 3.

Temporary solution:
The S300 6.2 System Administrators Manual, in the section that talks about Floppy update (page 334) says to use floppy 8 when doing the update. It should be changed to read, use floppy 3.

Fix information:
Has been fixed at the 6.5 release.

Signed off 01/26/90 in release A06.50

KPR #: 400091702 Product: PROGRAMMERS DOC SET 98794A   06.02

Keywords: DOCUMENTATION

One-line description:
system admin manual misname device bit

Problem:
On page 164, the manual says that direct connect terminals should be named ttydxx and dialin ports should be named ttyxx. On page 166, the manual reverses these names.

Temporary solution:
The workaround is to use the names consistently.
The /etc/reconfig command defaults to ttydxx for a direct connect and ttyxx for a dialin. Just remember to use the names in this manner.

Fix information:
Was fixed at the 7.0 release.

Signed off 12/18/89 in release A07.00

KPR #: 400094342 Product: PROGRAMMERS DOC SET 98794A   06.05

One-line description:
aclentrystart(3C) link to strtoacl(3C) manual entry (oops)

Problem:
aclentrystart not linked in on-line manual files at 7.0.

Temporary solution:
Link strtoacl.3c to aclentrysta.3c in directory /usr/man/man3.2 on 7.0 systems and Series 300 6.5 systems.

KPR #: 400094656   Product: PROGRAMMERS DOC SET   98794A   06.05

One-line description:
typo, affect should be effect

Problem:
Typo.

Temporary solution:
Change affect to effect.

Fix information:
Fixed at 7.0.

Signed off 12/18/89 in release A07.00

KPR #: 400094664   Product: PROGRAMMERS DOC SET   98794A   06.05

One-line description:
Man page: "b" command shows wrong syntax for [count] (should be [\count]

Problem:
Missing \ in various locations in xdb(1) manual entry.

Temporary solution:
Change [count] to [\count] for b, bb, bx, bu, bt, and ba commands.

Fix information:
Fixed in release 7.0.

Signed off 10/30/90 in release A07.00

KPR #: 400094938   Product: PROGRAMMERS DOC SET   98794A   06.05

One-line description:
iomap man page example contains /n instead of \n

Problem:
Typo. / should be \.

Temporary solution:
Change /n to \n in example

Fix information:
Fixed at 7.0.

Signed off 10/26/89 in release 207.00

KPR #: 400095190   Product: PROGRAMMERS DOC SET   98794A   06.50

One-line description:
man pages on AXE are missing, and don't work anyway

Problem:
User on preliminary system with known defects. Ignore.

Temporary solution:

- PROGRAMMERS DOC SET -

KPR #: 400095190 **CONTINUED**

None needed. Problem version no longer exists (preliminary software).

Fix information:
Fixed in release 7.0.

Signed off 10/31/90 in release A07.00

KPR #: 400096115   Product: PROGRAMMERS DOC SET   98794A   06.05

One-line description:
mount(1M) manpage example options not in same order as SYNOPSIS

Problem:
Inconsistency of option positions between SYNOPSIS and examples.

Temporary solution:
None needed. Options position-independent.

Fix information:
Options are position independent. Manual changed at 7.0 to clearly state this fact.

Signed off 12/18/89 in release A07.00

KPR #: 400098293   Product: PROGRAMMERS DOC SET   98794A   06.05

One-line description:
group(4) should be linked to logingroup(4)

Problem:
logingroup missing from NAME line in group(4) manpage, also no link to logingroup(4).

Temporary solution:
None available. Fixed for future releases.

Fix information:
Added logingroup to group(4) manpage and added link to database.

Signed off 01/26/90 in release A06.50

KPR #: 400098301   Product: PROGRAMMERS DOC SET   98794A   06.05

One-line description:
setsigmask(2) Manual entry refers to signal(5) Does not exist!

Problem:
6.5 brick signal(2) entry has SEE ALSO to signal(5) which does not exist.

Temporary solution:
No workaround. Get 7.0 HP-UX Reference.

Fix information:
Added signal(5) at 7.0.

- PROGRAMMERS DOC SET -

KPR #: 5000420307 **CONTINUED**

Signed off 12/18/89 in release A07.00

KPR #: 5000430165   Product: PROGRAMMERS DOC SET 98794A   06.02

Keywords: STARBASE

One-line description:
the README FIRST for 6.02 incorrectly documents Pdriver

Problem:
The documentation in the readme for axe 6.02 swapless for users tells
the load all filesets. This is incorrect in that the PDRIVER set should
not be installed as per the SE readme for axe.

Temporary solution:
The workaround is to not load all filesets.
Instead, Load all filesets except the PDRIVER
fileset.

Fix information:
The fix is to use the information for the
workaround. Future releases of HP-UX had
(or have) their own, unique README documents.
Fixed in release 6.5

Signed off 10/30/90 in release A06.05

KPR #: 5000461467   Product: PROGRAMMERS DOC SET 98794A   06.02

Keywords: DOCUMENTATION

One-line description:
Explain the difference between symbolic links and hard links.

Problem:
ln(1) manual entry does not clearly explain the difference between
hard links and symbolic links.

Temporary solution:
The following text was placed in the HP-UX Reference for 7.0 to explain
symbolic links:

-s   Cause ln to create symbolic links instead of the usual hard
      links. A symbolic link contains the name of the file to which it
      is linked. The referenced file is used when an open(2) operation
      is performed on the link. A stat(2) on a symbolic link returns
      the linked-to file; an lstat(2) must be performed to obtain
      information about the link. A readlink(2) call can be used to
      read the contents of the symbolic link. Symbolic links can span
      file systems and can refer to directories.

Fix information:
Fixed in release 7.0.

                                        - PROGRAMMERS DOC SET -

---

KPR #: 400098301 **CONTINUED**

Signed off 01/26/90 in release A07.00

KPR #: 400098327   Product: PROGRAMMERS DOC SET 98794A   00.00

One-line description:
Documenting "lpadmin -g" as setting print job priority.

Problem:
-gpriority description does not explain what priority (job or fence) is
being set.

Temporary solution:
-gpriority sets job priority as nearly as can be determined at the
present time. HP-UX Reference will be updated to correct this problem
at next printing after Release 7.0 edition.

Fix information:
Manpage updated for 8.0 to show correct information.

KPR #: 400098343   Product: PROGRAMMERS DOC SET 98794A   06.05

One-line description:
Doesn't document "-a" option

Problem:
-a option missing on lifcp(1) manpage prior to 7.0.

Temporary solution:
None available. Replace HP-UX Reference with 7.0 edition (09000-90013).

Fix information:
-a option description added at 7.0 in HP-UX Reference lifcp(1) entry.

Signed off 01/26/90 in release A07.00

KPR #: 5000420307   Product: PROGRAMMERS DOC SET 98794A   06.02

Keywords: FIND

One-line description:
The find(1) manual entry does not warn about Context-Dependent Files.

Problem:
find(1) manual entry does not state that the -hidden option is required
to detect context-dependent files for backups, so files are not copied
to the backup device.

Temporary solution:
Prior to 7.0 release, -hidden option must be specified with find(1)
to ensure proper backup of CDFs.

Fix information:
-hidden option added at 7.0 and documented in HP-UX Reference.

                                        - PROGRAMMERS DOC SET -

KPR #: 5000462242 **CONTINUED**

Temporary solution:
The erroneous lines were removed. To copy files
from one disk to another, use the following command:

cd /
find . -hidden -depth -print | cpio -pdlumx /target

Fix information:
Fix occurred in the 7.0 release.

Signed off 12/18/89 in release A07.00

KPR #: 5000467480   Product: PROGRAMMERS DOC SET   98794A   06.02

Keywords: DOCUMENTATION

One-line description:
Peripheral guide recommends wrong cable for use with built-in RS232

Problem:
The peripheral installation guide says to use
the 92221P cable with the laserjet. If you use this
cable on the built in RS-232 port you will find that
the casing is too big to fit.

Temporary solution:
You need to use the 98561-61604 cable in order to
clear the sides of the connector.

Fix information:
Will be fixed in a future release.

Signed off 10/30/90 in release A07.00

KPR #: 5000475186   Product: PROGRAMMERS DOC SET   98794A   03.01

Keywords: DOCUMENTATION

One-line description:
Change man page entry and HP-UX Reference Vol2 Sec5 from /usr/lib/term

Problem:
term(5) manpage refers to /usr/lib/term. Should be /usr/lib/terminfo.

Temporary solution:
None. Updated in next release after 7.0. Minor inconvenience.

Fix information:
Fixed for 8.0.

- PROGRAMMERS DOC SET -

KPR #: 5000461467 **CONTINUED**

Signed off 10/30/90 in release A07.00

KPR #: 5000461822   Product: PROGRAMMERS DOC SET   98794A   06.00

Keywords: DOCUMENTATION

One-line description:
System admin. manual documents checklist wrong.

Problem:
I looked at both the manuals and found that both mention about
bckup_frequency first and pass_number as second (in the text)
but in the example is where the discrepancy lies.
The example in sys admin manual has pass# first and bckup_frequency
second, therefore the discrepancy.
Whereas the Section 4 of HPUX reference manual is consistent with
text and its example i.e. the bckup_frequency first and pass_number
second.
Customers look at the example in both the manuals to set up their
/etc/checklist and get confused.
The /etc/checklist at the RC 300 system tallies with the section 4 of
Ref. manual.

Temporary solution:
In the 7.0 release, the wording for /etc/checklist was
changed to agree with the wording in the HP-UX
Reference manual entry for checklist.

Fix information:
Was fixed in the 7.0 release.

Signed off 10/26/89 in release 207.00

KPR #: 5000462242   Product: PROGRAMMERS DOC SET   98794A   06.05

Keywords: DOCUMENTATION

One-line description:
Incorrect command for copying from one root disk to another.

Problem:
The HP-UX commands:
cd/
find . 'lslgrep -v disc' -print|cpio -pdum /disc
on page 6-28 of the HP-UX Systems Administrator's Manual Vol. 1 part
number 98594-90060 revision 6.5 and page 433 of the HP-UX Systems
Administrator's Manual Vol. 1 part number 98597-90060 revision 6.2 are
incorrect for copying the contents of one root disk to another. This
command will not copy any linked files or device files due to the
omissions of the l and x options. A correct command to copy all files
is:
    find 'lsx- llgrep -v disc' -print|cpio -pdlumx /disc

- PROGRAMMERS DOC SET -

KPR #: 9999004824   Product: RJE/300   31447A   04.01

Keywords: OS

One-line description:
Problem W/RJE -Configured for 2780 emulation s/be no space compression.

Problem:
Question missing for Set Options script.

Cause:
Incorrect data type.

Fix information:
Fixed in 10/06/80 version.

KPR #: 9999004825   Product: RJE/300   31447A   04.01

Keywords: RJE300

One-line description:
First 15 bytes of message not transmitted.

Problem:
Send message loses text.

Cause:
Only the last char string was kept. This is a problem in the praise routine.

Fix information:
Fixed in future version.

KPR #: 9999004826   Product: RJE/300   31447A   04.01

Keywords: RJE300

One-line description:
Unreasonable errors occur with Edit Commands softkey.

Problem:
Edit commands creates the temporary file on the wrong pack.

Cause:
Files on volumes other than the current one should not be allowed.

Fix information:
Fixed in 10/06/80 version.

KPR #: 9999004848   Product: RJE/300   31447A   04.01

Keywords: RJE300

One-line description:
Executive command receive error.

Problem:

- RJE/300 -

KPR #: 500484360   Product: PROGRAMMERS DOC SET   98794A   06.05

Keywords: CHECKLIST

One-line description:
Sys Admin Manual contains incorrect example of editing checklist file.

Problem:
/etc/checklist example for swap device incorrect:

The example for /etc/checklist in the 6.5 system admin. manual volume 1 (98594-90060) on page 4-77 for the swap device is incorrect. All the fields need to be included even if not used, so that swapon -a in /etc/rc can operate.

Temporary solution:
The workaround for /etc/checklist, for example, on a 370 file server with five 340 diskless cnodes is to have an entry such as the following one:

/dev/dsk/1s0 /users2 swap default   3 0   # 2nd swap

Also, the checklist(4) man page shows a correct example for adding a swap device.

Fix information:
The manual for the 7.0 release has new examples that were taken from a working system.

Signed off 10/12/89 in release A07.00

KPR #: 500489187   Product: PROGRAMMERS DOC SET   98794A   06.05

Keywords: CU

One-line description:
the suspend feature of cu is not completely documented

Problem:
Documentation unclear: Return required after lines beginning with tilde.

Temporary solution:
Press Return after all cu input lines that start with tilde, including the ~suspend sequence. While not specifically stated, this is implied in the descriptive text since the section in question deals with "lines that begin with a tilde", and all lines in the UNIX/HP-UX environment must be terminated by a new-line character (Return key).

Fix information:
Added clarification to cu(1) entry for 8.0.

- PROGRAMMERS DOC SET -

KPR #: 999904848   **CONTINUED**

RUI closes line.

Cause:
Inproper processing of RUI.

Fix information:
Fixed in 10/06/80 version.

KPR #: 999904961   Product: RJE/300   31447A   04.01

Keywords: RJE300

One-line description:
The S in SELECT SOFTKEY truncated from message window.

Problem:
When softkey is pushed, the "s" in "Select a softkey" is command.

Cause:
TMWCLEAR was not called. TMWPUTN was called with a blank line.

Fix information:
A call to TMWCLEAR was added.

KPR #: 999904997   Product: RJE/300   31447A   04.01

Keywords: RJE300

One-line description:
Error 'Automatic Receive, on Receive file invalid'.

Problem:
Receive softkey is invalid. RJE thinks auto receive is on.

Cause:
Also receive was turned off.

KPR #: 999905048   Product: RJE/300   31447A   05.02

Keywords: RJE300

One-line description:
Command file from workstation causes crash after SIGNON.

Problem:
Posting a TAM listen request twice caused a crash.

Fix information:
Check for a double post, don't post a previously posted request. Fix
to QA 11/13/80.

KPR #: 999905097   Product: RJE/300   31447A   04.01

Keywords: RJE300

One-line description:
Crash during file transfer from 250 to 300.

Problem:
CP'KILL'TIMER problem patch to QA 11/13/80.

KPR #: 999905225   Product: RJE/300   31447A   05.02

Keywords: COMMANDS

One-line description:
RJE USING "commandfile" does not work.

Problem:
RUN using "CMDFILE" does not work, RJE aborts.

Cause:
RJE tried to clear a non existant window.

Fix information:
Window is now cleared only when RJE is in interactive mode.

KPR #: 999905230   Product: RJE/300   31447A   05.02

Keywords: SF18

One-line description:
RJE Using "commandfile" causes crash.

Problem:
RJE using "Commandfile" causes *Crash* TCB=!4EA CST=!50 Deltap=!56
Bounds Violation Code=!18 Parms=#44 #-1 #20236 #88 [TM=12. Deltap=6NBB
of task RJECOM]

KPR #: 999905359   Product: RJE/300   31447A   04.01

Keywords: COMM

One-line description:
System crash while doing a send message

Problem:

KPR #: 999905459   Product: RJE/300   31447A   05.03

Keywords: COMM

One-line description:
Crash when receive null block from IBM

Problem:
2780-IBM. Receive null block from IBM and
CRASH TCB=!3FA CST=!50 DELTAP=!120
DSEG bounds violation CODE=!1C PARMS=#44 #-11 #-8767 #0

KPR #: 4000027565   Product: RJE/300   50967A   01.00

One-line description:
If the background process cannot access rje_joblog, user waits 90 sec.

Problem:
If rje_init cannot open rje_joblog, the user is notified immediately
that rje cannot open rje_joblog, however, it may be 30-90 seconds
before the "link terminated abnormally" message appears to stdout. Durin
this time the link is down and idle. Users should not attempt to
initiate any new processes during this time, but just wait 30-90 sec.

Fix information:
May be corrected in a future release.

KPR #: 400084970   Product: RJE/300   50967A   01.00

One-line description:
RJE/300 does not work with long file names

Problem:
rje_send will hang for any long path, not just paths containing
long file names. The longest path that may be safely used is
24 characters. (RD)

Fix information:
The path is copied into a data structure which was too small.

This will be fixed in RJE 2.0. The data structure will be expanded
to accomodate paths of 1024 bytes. (RD)

Signed off 06/21/90 in release A02.00

KPR #: 4000093039   Product: RJE/300   50967A   01.00

One-line description:
Binary files of certain lengths sent incorrectly using ~ control lines

Problem:
Some binary files may be transmitted incorrectly if the length of the
file falls within certain ranges and the binary file is sent using
a control line beginning with ~
For example, if the input to rje_send is
~!-b cat datafile
and datafile is 2700 bytes long, then the problem will occur.

The file sizes that are affected are:

Hexadecimal XXXX0AXX: {2560-2815, 68096-68531, 133632-133887, etc}
Hexadecimal XX0AXXXX: {655360-720895, 1743576-1749811, etc}
Hexadecimal 0AXXXXXX: {167772160-184549375}

Temporary solution:
The problem can be avoided by using rje_send -b instead of
using the ~ control lines within the rje_send input file.

Fix information:

KPR #: 400093039   **CONTINUED**

The problem was caused by using the fgets() library function
to read the binary file length within the queue file.

fgets() terminates on linefeed characters (Hex 0A). Thus,
some of the length bytes may be ignored if one of the bytes
in the length happens to be a linefeed.

The problem has been corrected by using fread() instead of fgets()
to read the file length. The fix will be incorporated in the
next release.

Signed off 06/21/90 in release A02.00

KPR #: 4000093492   Product: RJE/300   50967A   01.00

One-line description:
rje_bg or rje_router can hang writing job notification to PTY terminal

Problem:
rje_bg and rje_router may hang under some circumstances. This may
happen when these programs try to write to a terminal to inform
a user of some change in a job's status. This happens only if
the user is logged in to HP-UX on a PTY port (i.e. via the LAN)
and the same user has previously been logged in to a lower numbered
PTY port and no other user has logged in to that lower numbered
PTY port.

Here is an example:
1. rjeuser logs in via /dev/pty/ttyp4
2. rjeuser logs in a second time via /dev/pty/ttyp5
3. rjeuser logs out from the session on ttyp4
4. rjeuser sends a job with rje_send from ttyp5
5. the job has a usr card that causes rje to attempt to write
   some notification message to rjeuser's terminal.

Temporary solution:
Here are some workarounds for this problem:
1. Avoid choosing notification options in the usr card
   that write to the terminal.
2. Avoid logging in via a pty port.
3. Avoid logging in more than once at any one time.
4. If one of these programs does hang, it is possible to
   "unhang" it by opening the master pty file that it is waiting
   on. To determine which port is involved, use who -d to get
   a list of "dead" ports. Any ports that were last used
   by the same rje user who submitted the job should be opened.

   For the example given in the submitter text, the following
   line would "unhang" the rje software.
   cat </dev/ptym/ptyp4

Fix information:
May be fixed in a future release.

KPR #: 1650040139   Product: S300 GENERAL HPUX   98680B   05.20

Keywords: CSH

One-line description:
Csh(1) documentation in error about some features.

Problem:
THE BUILT IN CSH-COMMAND 'alloc' DOES NOT WORK.
GIVES 'command not found' MESSAGE WHEN INVOKED.
THE COMMANDS 'bye' AND 'gd' BOTH EXISTS IN CSH
AS BUILT-INS ,BUT ARE NOT DOCUMENTED!!
COMMAND 'history -h' WORKS BUT IS NOT DOCUMENTED!!

Cause:
This defect report contains several problems:

1.   The alloc built-in does not work.
2.   The history -h built-in works but is not documented.
3.   The gd built-in works but is not documented.
4.   The bye built-in works but is not documented.

The alloc built-in does not work because it is only compiled into csh
when a 'Debug' compiler directive is used to build the shell. This
compiler directive is not used to build release bits for csh.

Temporary solution:
The csh manual page has been changed for release 8.0 to include
documentation about the 'gd' and 'bye' built-ins, along with a related
built-in, 'rd'. The 'gd' and 'rd' built-ins are synonyms for 'pushd'
and 'popd', repectively, and 'bye' is similar in function to 'logout'
(the only difference being that it works for sessions which are not
login shells). These built-ins are documented with their standard
counterparts ('pushd', 'popd', and 'logout'), but their use is
discouraged since they are not part of the standard BSD csh and may
not be supported in future releases.

The 'history -h' built-in was documented in the manual page for
release 7.0.

The 'alloc' built-in is only present if a 'DEBUG' compiler directive
is used to build csh. This is not done for released versions of csh.
Therefore this built-in will not be supplied in the HP-UX version of
csh.

Fix information:
The csh manual page has been changed for release 8.0 to include
documentation about the 'gd' and 'bye' built-ins, along with a related
built-in, 'rd'. The 'gd' and 'rd' built-ins are synonyms for 'pushd'
and 'popd', repectively, and 'bye' is similar in function to 'logout'
(the only difference being that it works for sessions which are not
login shells). These built-ins are documented with their standard
counterparts ('pushd', 'popd', and 'logout'), but their use is
discouraged since they are not part of the standard Berkeley csh and
may not be supported in future releases.

The 'history -h' built-in was documented in the manual page for

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KPR #: 1650040139   **CONTINUED**

release 7.0.

KPR #: 1650040147   Product: S300 GENERAL HPUX   98680B   05.50

Keywords: MAN

One-line description:
"man -t" gives core dump.

Problem:
IF YOU PRESS 'man -t' ACCIDENTLY THIS GIVES YOU SEGMENTATION
FAULT,CORE DUMPED!!

Cause:
At this point (Aug, 1990), the cause of the original problem is unknown.

Fix information:
Fixed in release 6.0.

Signed off 11/07/90 in release B06.00

KPR #: 1650041160   Product: S300 GENERAL HPUX   98680B   05.21

Keywords: XARGS

One-line description:
Xargs(1) of more(1) doesn't work as documented.

Problem:
The xargs command does not function consistanly. For example you
get different responses for the two following uses of the command.
execute
    # cd /usr/include
then
    # ls *.h | xargs -i -p cat {}   - this works as expected.
or
    # ls *.h | xargs -i -p more {}   - this does a more of all
                                             of the args, and than a
                                             more of the last arg.

Cause:
The default action for more is to first read standard input and
then process file arguments. In the case of:

        ls *.h | xargs -i -p more {}

both more and xargs share the same standard input. Hence, when
a file is selected by xargs, more reads the rest of the standard
input (i.e. the output from ls *.h) and then processes the selected
file. After returning, xargs finds that it has no more input, so it
exits.

Fix information:
Fixed in HP-UX release 8.0.

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KPR #: 1650057828 **CONTINUED**

A possible workaround is to use:

tbl test | nroff -Tlj -ms | lp -oraw

instead. Note that tbl does not have the -T option as stated in the .submitter file.

Fix information:
The fix will be in Release 8.0.

KPR #: 1650070474   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: KERNEL

One-line description:
HPIB printer driver does not handle graphics properly

KPR #: 1650074385   Product: S300 GENERAL HPUX   98680B   02.01

One-line description:
lint false errors on missing library entries mkdir(2) and rename(2)

Problem:
The problem was that the mkdir(2) and rename(2) entries were missing from the lint library.

Cause:
The cause is missing lint library entries.

Fix information:
Was fixed in HP-UX 7.0.

Signed off 10/30/90 in release B07.00

KPR #: 1650076091   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: FDB   XDB

One-line description:
fdb has problems with formal arguments to CHARACTER*(*) subroutines

Problem:
Given this program:

```
PROGRAM X
IMPLICIT NONE
CHARACTER*5 Str1
DATA Str1 /'Test',/
CALL Sub1(Str1)
END
SUBROUTINE Sub1 ( Char1 )
IMPLICIT NONE
CHARACTER*(*) Char1
PRINT *,Char1
CALL Sub2(44)
```

- S300 GENERAL HPUX -

KPR #: 165005O294   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: SH

One-line description:
Report of shell script that results in unexpected logout when run

Problem:
The customer sent me the following program (script). With that program he compiles c programs redirection to a file. And the file will be printed to the screen.While the program runs type one or more backspaces after the small program is finished you will auto-matically loged out.
Contents of the program : cc -c -g $1.c 2>errfile
                          cat errfile|more

Fix information:
This defect will be fixed in HP-UX 9.0.

KPR #: 1650057828   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: TBL

One-line description:
"tbl" doesn't produce proper looking boxes on laser jet printer

Problem:
Steven is using the folowing command:-
tbl -Tlj test|nroff -Tlj -ms |lp -nroff
On the following file called test:-
```
.TS
allbox center;
c c c.
Number  Name   Crossings
1    James   3
2    Dave    4
3    Alex    5
4    Murdo   8
.TE
```
Using 330 HPUX Rev6 (Diskless) with a LaserJet II. The output table has vetical lines that are jaggered, that is they drift to the right then left by one or two pixels.

==

The command pipe of "tbl <file> | nroff -Tlj | lp -onroff" was producing incorrect results when sent to a Laserjet printer. The vertical lines would be seen at the bottom of the table, gradually drifting to the right of the page.

Cause:
The problem was not with tbl nor nroff, but instead with the filter program /usr/lib/lprpp, which was munging the characters and escape sequences being output by the -Tlj option of nroff. This filter has been modified to leave the output untouched so that it displays correctly on Laserjet printers.

Temporary solution:

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KPR #: 1650076091 **CONTINUED**

```
       RETURN
       END
       SUBROUTINE Sub2 ( Int1 )
       IMPLICIT NONE
       INTEGER Int1
       PRINT *,Int1
       RETURN
       END
```

Execute:
>s
>s
>s
>T

```
0 sub1 (char1 = '')    [x.f: 15]    <---- char1 = 'Test ' !!!
1 MAIN ()   [x.f: 6]
       str1 = 'Test'
2 main + 0x20 (0x1, 0xffeffe84, 0xffeffe8c, 0xffeffecc, 0)
```

Cause:
Any access to a FORTRAN parameter of type CHARACTER*(*)
on the series 300 will return an incorrect value.

Fix information:
Fixed in B.08.00.

KPR #: 1650076422   Product: S300 GENERAL HPUX   98680B   03.00

One-line description:
Using cu over 37212B at 2400 baud results in loss of banner if CCITT.

Temporary solution:
No known workaround at this time.
This problem is currently being investigated.

6-29-89

KPR #: 1650082529   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: LINT

One-line description:
lint gives unexpected error messsages

Problem:
The code was not bracketed with #ifdef KERNEL as it should have been.

Cause:
Header file should have been ifdef'ed properly. POSIX changes have
addressed many similar problems.

Temporary solution:
The fixed version of types.h will be shipped with 7.0,
but people can delete the problem line from their local

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KPR #: 1650082529 **CONTINUED**

copies.

Fix information:
Code was fixed for 7.0 as part of POSIX cleanup.

Signed off 11/07/90 in release B07.00

KPR #: 1650085514   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: CATMAN

One-line description:
/usr/lib/mkwhatis script sometimes produces memory fault errors.

Problem:
When working in some directories with a large number of manpages,
too long an argument list was being constructed for for deroff.
It responded ungracefully.

Cause:
The cause was too long an argument being passed to one of the commands
in the mkwhatis script.

Fix information:
Fixed in Release 8.0.

KPR #: 1650088997   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: FDB

One-line description:
FDB does not handle array parameters correctly

Problem:
When a staticly initialized int array is passed to
as an argument, the values are not correctly accessed
by the parameter name in the called routine, in some
cases. Here's an example program that shows the

```
problem:
program gm
integer abc(3,3),n,ar
data abc/1,2,3,4,5,6,7,8,9/
n = ar(abc,3)
end

integer function ar(ap,nr)
integer nr,ap(nr,3)
ar = 10
return
end
```

Changing the declaration of ap to
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KPR #: 1650088997   **CONTINUED**

integer ap(3,3)
fixes the problem.

KPR #: 1650090753   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: C

One-line description:
value of boolean expression goes on stack correctly but does not return

Fix information:
Fixed for 7.40

KPR #: 1650093328   Product: S300 GENERAL HPUX   98680B   05.02

Keywords: VI

One-line description:
PROBLEM WITH UNDO FOR GLOBAL CHANGES IN MACROS IN VI

Problem:
When the command like ":1,$g/xx/s/xxx/yyy/" is used as a macro in vi(1),
the first execution of it succeeds, but if 'u' command is used and after
that the macro is used again, only two top lines are changed and the
error "Can't undo in global commands" occurs.

Cause:
In executing the macro which causes the large change like
"g/xx/s/xxx/yyy/", vi(1) reconstructs the state for the undo operation
by using the undo facility in executing "s" command. But basically, the
undo facility is inhibited in the global command, so the error occurs.
And the state to undo "g" command is saved first of all then the
reconstruction in executing "s" command is unnecessary. Before the
commands related to the macro (in this case, 'u' command) are used,
the state is set the special value, so "g/xx/s/xxx/yyy/" command works
well unexpectedly.

Fix information:
Will be fixed in the 8.0 release of HP-UX for the Series 300 and 800.

KPR #: 1650093351   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: UPDATE

One-line description:
/ETC/MAGIC ALWAYS GETS OVERWRITTEN DURING AN UPDATE

Problem:
When a system is updated, a tailored /etc/magic is overwritten, since
the update media directly stores the new magic file in /etc/magic.
This causes customer modifications to /etc/magic to be lost.

02/28/90
Cause:

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KPR #: 1650093351   **CONTINUED**

The /etc/magic file is supplied on the update tape as /etc/magic
instead of /etc/newconfig/magic.

02/28/90
Temporary solution:
    A workaround to this problem is to save your modified /etc/magic
file in a temporary place before updating to the 7.0 release. After
the update, merge your changes into /etc/magic.

    This workaround will not be necessary when updating to 8.0, the
8.0 update will not overwrite a customized /etc/magic file.

02/28/90
Fix information:
Fixed in the 8.0 release of HP-UX on the Series 300 and 800.

02/28/90

KPR #: 1650100172   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: CU

One-line description:
there is no environment passed when using ~! and cu

Problem:
The users environment was being completly destroyed by cu.

Cause:
An error in the design for cleaning the enviornment of setuid programs
caused all enviornment variables to be reset

Temporary solution:
none

Fix information:
Code was added to preserve the users enviroment at program entry and
restore it after the uid's are reset in the fork routine.

Fixed in 8.0.

KPR #: 1650100230   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: COL

One-line description:
tbl | nroff | col gives box with staggered line on Laserjet

Problem:
/usr/lib/lprpp filter attempts to shift char2 in the sequence
"<char1>\b<char2>" in an attempt to get the laserjet to embolden text.
tbl|nroff produces table box character sequences like "_\b|" to form

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KPR #: 1650100230   **CONTINUED**

intersecting lines. lprpp shifts the '|', like it would a second ' ' in "\b", to attempt emboldening. On lines with "\b|" the vertical bar does not line up with those on lines with just "|".

Cause:
lprpp was not designed with tbl output in mind.

Temporary solution:
Use "tbl file_name | nroff -Tlp | col -b | lp".

Fix information:
Fixed in the 8.0 release. Revision 66.1.

The nroff command should be used with the -Tlp option in this application.

KPR #: 1650101147   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: CDB

One-line description:
cdb(1) only reports first value of local variable on stack

Problem:
Given this program:

```
main()
{
    int i;
    {
        int i;
        i = 4;
    }
    i = 5;
    return 0;
}
```

Execute:
>9 b
>r
>(i)

The value printed is 4 instead of 5.

Cause:
If more than one variable has the same name in C (due to nested blocks), it is possible that the wrong one will be referenced when specifying its name in an expression. For example, the variable actually accessed is one in a more deeply nested block than the current viewing location.

Fix information:
Fixed in B.07.06

Signed off 11/16/90 in release B07.06

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KPR #: 1650101246   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: ACCOUNTING

One-line description:
acctcom(1M) shows time one hour earlier than -e or -s option specified

Problem:
The problem was that acctcom was incorrectly handling times passed as parameters. It was subtracting an hour when it should not and thus the output was wrong when selecting records based upon time.

Cause:
The problem was a line of code changed at level 62.1 where the hour specifier was decremented by one before multiplying it by 3600 in order to convert it to seconds.

Fix information:
This is fixed in 8.0.

KPR #: 1650102194   Product: S300 GENERAL HPUX   98680B   03.01

One-line description:
Special handling needed for SR #1650102194. See labtext.

KPR #: 1650130989   Product: S300 GENERAL HPUX   98680B   05.02

Keywords: LIFCP

One-line description:
lifcp from a floppy begins with a wrong header and cannot be read

Problem:
PASCAL workstation changed their implementation of lif files, adding a "ws header" which contains information not available to lifcp. Therefore, lifcp can not create "ws header" information. Lif*(1) is only intended as an interchange format to get data from one system to another. It is therefore reasonable to assume that it will be converted into a meaningful and useful format on the target system by the user.

Temporary solution:
Use RMB/UX, BASIC or PASCAL workstation to copy the files from lif disk to the HP-UX system.

Fix information:
The lifcp(1) documentation was changed to show an example of the copy of a bdat file. An example from the HP-UX 8.0 Release manual page follows:

    lifcp -r -T 0xfffe961 -i 0x20200080 bdat lifvol:BDAT

Copy a BDAT file, without a password, from a BASIC WorkStation to an HP-UX LIF volume, lifvol. Note that -i controls protection and record size attributes. The file type for a BDAT file is -5791 (or 0xfffe961) and its record size is 256 bytes per record.

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KPR #: 1650134353   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: KERMIT

One-line description:
Kermit's automatic naming only works once, then overwrites file

Problem:

Kermit was not reading a long filename directory correctly. In ckufio.c, function "traverse", kermit was using a simple read on a file descriptor to obtain the file names. I modified the read so that directory(3C) statements were made. All changes were qualified with a "#ifdef HPUX".

Cause:

Kermit was not reading a long filename directory correctly. In ckufio.c, function "traverse", kermit was using a simple read on a file descriptor to obtain the file names. I modified the read so that directory(3C) statements were made. All changes were qualified with a "#ifdef HPUX".

Temporary solution:
Contact an SE to obtain the available patch.

Fix information:
Fixed in 8.0.

KPR #: 4000003756   Product: S300 GENERAL HPUX   98680B   02.00

Keywords: LOGIN

One-line description:
People may appear logged in when they are not.

Problem:
Login only logs user IN to the logging files /etc/utmp and /usr/adm/wtmp. Getty is the only way to log someone OUT. If you let a user log in but then do not start another getty for their line when they log out, they continue to be "logged in".

Cause:
This problem was caused by a design flaw in /etc/init as derived from the original ATT System V.2 code.

When /etc/init handles the SIGCLD signal as the result of a death of one of its children, /etc/init records the fact that the child is dead along with its exist status in an internal data structure. However, it doesn't update the /etc/utmp entry for that child until it wishes to spawn another child. For "respawn" entries, this ends up being immediately, but if the child from a "once" entry terminates, the /etc/utmp entry for that child isn't updated until the next time /etc/init spawns a child (which might not ocurr for a long time).

KPR #: 4000003756   **CONTINUED**

This may be demonstrated if you have two getty lines, one of them marked as "once", the other as "respawn".

t1:2:once   :/etc/getty -h /dev/tty01 H
t2:2:respawn:/etc/getty -h /dev/tty02 H

If you log in as user1 on tty01 and uesr2 on tty02, a "who -u" will show both users logged in. If you then exit from tty01 (i.e. user1 logs out), "who -u" will still show both user1 and user2 logged in when, in fact, user1 isn't really on the system.

However, if user2 then logs out, init will go to respawn the getty on tty02, which will cause *both* the "t1" and "t2" entries in /etc/utmp to be updated. A "who -u" run at this point will show that neither user1 nor user2 are logged in.

03/16/90

Temporary solution:
Manage inittab carefully; never bring down the system until all users have logged out and have "login:" prompts from getty on their terminals.

Fix information:
Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

03/16/90

Signed off 11/16/90 in release B07.00

KPR #: 4000003830   Product: S300 GENERAL HPUX   98680B   02.00

Keywords: LOGIN   PASSWD

One-line description:
Very long fields in /etc/passwd mess up login.

Problem:
Very long fields in /etc/passwd (see the manual page for particulars) cause unpredictable things to happen to the login command.

Cause:
The login command does not limit the field lengths to the size of the space allocated, so other variables are overrun. This is a System III feature

Temporary solution:
Avoid overly-long /etc/passwd fields.

Fix information:
Fixed in HP-UX release 8.0.

KPR #: 400017020   Product: S300 GENERAL HPUX   98680B   04.00

Keywords: NROFF

One-line description:
NROFF does not support any printers except the obsolete 2631B.

Problem:
NROFF does not support any HP printer, except for the obsolete 2631B.
Clever printers like the 2934A/2686A etc are supported by the op.
sys., but not by relevant utilities like nroff.

KPR #: 400019570   Product: S300 GENERAL HPUX   98680B   00.00

Keywords: DOCUMENTATION   DD

One-line description:
Problem with dd with seek and mag tape

Problem:
The manual entry for the "dd" command lists a "seek" option. (It
allows skipping "n" records into the OUTPUT file before writing.
The "seek" option doesn't have any effect when the output file is a
9-track mag tape. This is the way the code is written. We need to update the reference
page to explain that the "seek" option has no effect on mage tape.
(Perhaps an example with explanation would be sufficient.)
See dd(1) and lseek(2), and the source code for "dd".

Temporary solution:
Added following into the dd(1) manual page.

before modify:
seek=n   Skip n blocks from beginning of output file before copying.
----
after modify:
seek=n   Skip n blocks from beginning of output file before copying;
          this option is ignored on a raw magnetic tape device. See
          mt(1) for information about operations on raw magnetic tape
          devices.

Fix information:
Will be fixed in the 8.0 release of HP-UX.

KPR #: 400092437   Product: S300 GENERAL HPUX   98680B   05.20

Keywords: LIBM   C

One-line description:
Math routine, pow, does not handle overflow correctly.

Problem:
The pow() function doesn't handle overflow properly when given a
small value:

   pow(3.3e-308,2)

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KPR #: 400092437 **CONTINUED**

returns: 1.79e+308
When multiplication of 3.3e-308 by itself produces 0.0.

Fix information:
Has been fixed for HPUX 8.0.

KPR #: 400094060   Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
Invalid form in recognize_array: During reg alloc because of common sub.

Problem:
The compiler aborts with the following message:

    C1 internal error in <routine>: invalid form in recognize_array

Temporary solution:
This problem occurs when one type of optimization, specifically common
subexpression elimination, creates a state in the internal data
structure that a later phase of the optimizer is unable to handle.

The workaround is to use a special option to the optimizer that
disables the first optimization:

    -Wg,-d

Include this option in the cc command line:

    cc -O example.c -Wg,-d

This will turn off common subexpression elimination for the entire file
example.c. Onother option is to turn off optimizations for the routine
that was indicated in the error message:

    cc -O example.c -Wg,-padd_pn

(The routine name is add_pn. -paddpn tells the optimizer to 'pass'
the input through unoptimized for routine addpn.)

Fix information:
Will be fixed for HP-UX release 7.40.

KPR #: 400096487   Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
cc -O chokes on the appended code.

Problem:
This defect is due to the fact that the code generator was loading
pointer differences which were being used to index into an array, into
address registers rather than data registers as would have been
appropriate. The pointer type of the "index" operand was incorrectly

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KPR #: 4000096487 **CONTINUED**

leading codegen to load an address (.vs. data) register.

Cause:
If you are not the correct group, please forward.

cc -c -O -DHPUX -DOS=HPUX search.c

- results in -

search.c, line 35: compiler error: no table entry for op REG.

If I invoke without optimization, it compiles.

SOURCE FILES:

<-->

```c
#include "runtest.h"

Search(Pattern,PatLen,EndBuff, Skip1, Skip2, Desc)
char Pattern[];
int PatLen;
char *EndBuff;
int Skip1[], Skip2[];
struct PattDesc *Desc;
{
    register char *k, /* indexes text */
        *j, /* indexes Pattern */
        *PatBegin; /* register pointing to char
        * before beginning of Pattern*/
    register int Skip; /* skip distance */
    char *PatEnd;
    /* pointers to last char in Pattern and Buffer */
    *BuffEnd;
    BuffEnd = EndBuff;
    PatBegin = Pattern - 1;
    PatEnd = Pattern + PatLen - 1;

    k = Desc->Start;
    Skip = PatLen-1;
    while ( Skip <= (BuffEnd - k) ) {
        j = PatEnd;
        k = k + Skip;
        while (j > PatBegin && *j == *k) {
            --j; --k;
        } /* while */
        if (j< Pattern) {
            /* found it. Start next search
            * just after the pattern */
            Desc -> Start = k + 1 + Desc->PatLen;
            return(1);
        } /* if */
        Skip =
            bm_max(
```

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KPR #: 4000096487 **CONTINUED**

```c
                Skip1[*(unsigned char *)k],Skip2[j-Pattern]);
        } /* while */
        Desc->Start = k;
        return(0);
} /* Search */
```

<-->

/* this is the file of global declarations for Scaffold+ runtest */

```c
#if defined(OS2)
#define ARG_MAX 128
#define ELOOP 249
#define INCL_DOS
#define INCL_ERRORS
#define INT_SLASH '\\'
#define PATH ".\\"
#define SLASH ":\\"

#include <os2def.h>
#include <bsedos.h>
#include <bseerr.h>
#include <dos.h>
#include <stdlib.h>
#include <signal.h>
#include <stdio.h>
#include <fcntl.h>
#include <sys\types.h>
#include <sys\stat.h>
#include <ctype.h>
#include <malloc.h>
#include <errno.h>
#include <time.h>
#include <process.h>
#include <string.h>
#include <sys\utime.h>

#define BUF_SIZE 4*BUFSIZ

typedef unsigned short attribute;
typedef struct _dstruct {
    FILEFINDBUF buffer;
    FILEFINDBUF *pBUFFER;
    HDIR handle;
    HDIR *pHANDLE;
    int f_FIRST;
    USHORT searchcount;
    char *path;
    USHORT apirc;
    USHORT apiattrib;
} DSTRUCT;

char * getcwd();
#endif
```

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KPR #: 400096487 **CONTINUED**

```
#include <fcntl.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <malloc.h>
#include <ctype.h>
#include <errno.h>
#include <time.h>
#include <string.h>
#include <unistd.h>

#define BUF_SIZE BUFSIZ

extern char **environ;
typedef unsigned short attribute;
typedef struct _dstruct {
    struct direct buffer;
    struct direct *pBUFFER;
    DIR handle;
    DIR *pHANDLE;
    } DSTRUCT;
#endif

/*
 * macros for accessing local routines.
 */

#define Malloc(a) mymalloc(__FILE__,__LINE__,a)
#define Free(a) myfree(__FILE__,__LINE__,&a)
#define Realloc(a,b) myrealloc(__FILE__,__LINE__,a,b)
#define sberror(a) myerror(__FILE__,__LINE__,a)
#define bexec(a) Bexec(__FILE__,__LINE__,a)

#if defined(MEM)
#include "memchk.h"
#endif

#define ON_PASS "on_pass"
#define ON_FAIL "on_fail"

#define FALSE 0
#define TRUE 1
#define MAX_PATH_LENGTH 256    /* find this out for HPUX, DOS */
#define MAXITERATIONS 60       /* maximum number of times to try and get
                                * a unique testid
                                */

#define MAX_TESTID_LENGTH 12   /* maximum length for an id is 12 -
                                * considering the ?.3 limitation
                                * DOS
                                */

#define DEFAULT_NOHANG 600
#define DATE_FORMAT "%a %h %d %T %z 19%y"

#define PROG "prog"
#define RUNTEST_ERROR 3        /* return code for runtest error */
```

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KPR #: 400096487 **CONTINUED**

```
#if defined(DOS)
#define ARG_MAX 128
#define ELOOP 249
#define INT_SLASH '\\'
#define PATH ".\\"
#define SLASH "\\"

#include <dos.h>
#include <os2.h>
#include <stdlib.h>
#include <signal.h>
#include <stdio.h>
#include <fcntl.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <malloc.h>
#include <ctype.h>
#include <errno.h>
#include <time.h>
#include <string.h>
#include <process.h>
#include <sys/utime.h>

#define BUF_SIZE BUFSIZ

typedef char attribute;
typedef struct _dstruct {
    struct find_t buffer;
    struct find_t *pBUFFER;
    int f_FIRST;
    char *path;
    unsigned dosattrib;
    unsigned dosrc;
    } DSTRUCT;

char * getcwd();
#endif

#if defined(HPUX)||defined(SUN)||defined(VAX)||defined(APOLLO)
#define _A_NORMAL 0x0000
#define _A_RDONLY 0x0001
#define _A_HIDDEN 0x0002
#define _A_SYSTEM 0x0004
#define _A_SUBDIR 0x0010
#define _A_ARCH 0x0020
#define INT_SLASH '/'
#define O_BINARY 0
#define O_TEXT 0
#define PATH "./"
#define SLASH "/"

#include <signal.h>
#include <stdio.h>
#include <sys/param.h>
#include <ndir.h>
```

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KPR #: 4000096487   **CONTINUED**

```
#define STDIN "stdin"
#define STD_IN "std.in"
#define INTERACTIVE ".it"
#define SUPERUSER ".su"

#define CURRENT_DIR "."
#define PARENT_DIR ".."

#define ADMIN "ADMIN"
#define BAD "BAD"
#define GOOD "GOOD"
#define SAVEDIR "savedir"
#define RESULTS "RESULTS"
#define LOCKDIR "lockdir"

#define STDOUT "stdout"
#define STD_OUT "std.out"
#define STDERR "stderr"
#define STD_ERR "std.err"
#define STDFIL "stdfil"
#define STD_FIL "std.fil"
#define RESOUT "resout"
#define RES_OUT "res.out"
#define RESERR "reserr"
#define RES_ERR "res.err"
#define RESFIL "resfil"
#define RES_FIL "res.fil"
#define XFAILOUT "xfailout"
#define XFAIL_OUT "xfail.out"
#define XFAILERR "xfailerr"
#define XFAIL_ERR "xfail.err"
#define XFAILFIL "xfailfil"
#define XFAIL_FIL "xfail.fil"

#define PASSMSG "_PASSMSG="
#define FAILMSG "_FAILMSG="

/*
 * these are used to indicate the type of a pathname as either a
 * directory or a file
 */
#define DIRECTORY 0x0010
#define FLE 0x0000

/*
 * these are search-orientation constants for passing to
 * find_paths routine
 */
#define TOP_DOWN 1
#define BOTTOM_UP 2
#define SORTED 3

#define FAIL 1
#define NOFAIL 0
```

KPR #: 4000096487   **CONTINUED**

```
/*
 * used to tell path_exists whether to do a stat, do it into
 * a passed buffer, or do it in a local buffer.
 */
#define NO_STAT      0
#define STAT_NO_BUF  1
#define STAT_BUF     2

/*
 * for return status from function exec_test
 */
#define KILLED -1

/*
 * for return values from function path_exists
 */
#define NOEXIST -1
#define WRONG_TYPE 0
#define OK 1

#define ERROR -1

/*
 * pseudo-signals to cleanup indicating whether the <testdir>
 * should be processed or not.
 */

#define PROCESS_TESTDIR     -1
#define NO_PROCESS_TESTDIR  -2

/*
 * structure for pathname lists that will hold modules and
 * funcdirs
 */

struct path_list_node {
    char *path_name;
    int path_type;
    struct path_list_node *next;
} *func_dirs, *module_dirs;

struct inode_element {
    struct inode_element *previous;
    struct stat buf;
    struct inode_element *next;
} inode_list;
struct inode_element *bottom;

extern char *env_vars;
extern char **env_tbl;
extern char *testId;
extern char *testdir;
extern char *funcdir;
extern char *original_dir;
```

KPR #: 4000096487 **CONTINUED**

```
extern char *results_file;
extern char *good_dir;
extern char *bad_dir;
extern char *pass_mess;
extern char *fail_mess;
extern char **originalenviron;
extern char *type;
extern char *testfile;
extern char *runfile;
extern char *killfile;
extern char *lockdir;
extern char *std_in;
extern char *std_out;
extern char *std_err;
extern char *pid;
extern char *scaffold;
extern char *home;
extern char *msgbuffer;
extern char *s_TESTID;
extern char *s_PID;
extern char *s_FUNCDIR;

extern int buffer_size;
extern int prog_killed;
extern int prog_pid;
extern int csuccesses;
extern int cxfail;
extern int cfail;
extern int ctests;
extern int cfirst;
extern int su_flag;          /* super-user status                */
extern int link_flag;        /* link instead of cp               */
extern int shell_flag;       /* exit to shell, instead of running */
extern int run_flag;         /* runfile was specified by user    */
extern int test_flag;        /* testfile was specified by user   */
extern int ignoresu;         /* ignore user as super-user        */
extern int first_time;       /* running tests for first time     */
extern int f_PTY;            /* Redirect stdin from /dev/ttyp??  */
extern int bsavedir;         /* Date written to $SCAFFOLD/GOOD   */

extern long nohang;          /* max amount of time test may run  */

char * Getpwuid();
char * mktestid();
char * namedir();
char * bundle();
char * mymalloc();
char * myrealloc();
char * addtype();
char * Bexec();
void myerror();
void myfree();

extern long shell_nohang;
```

KPR #: 4000096487 **CONTINUED**

```
DSTRUCT * Opendir();

/*
*, Boyer-Moore string search declarations.
*/

#define MAXCHAR 0377
#define bm_min(x,y) (x) < (y) ? (x) : (y)
#define bm_max(x,y) (x) > (y) ? (x) : (y)
struct PattDesc {
    int *Skip1, *Skip2;    /* pointers to skip tables */
    char *Pattern;         /* Pattern to search for */
    int PatLen;            /* pattern length */
    char *Start;           /* starting position of search Pattern[0] */
    int Success;           /* Pattern found */
};
```

Temporary solution:
This defect is due to the fact that the code generator was loading pointer differences which were being used to index into an array, into address registers rather than data registers as would have been appropriate. The pointer type of the "index" operand was incorrectly leading codegen to load an address (.vs. data) register.

To work around this problem, use a temporary variable of appropriate scalar type (e.g. int or long). Pre-assign the pointer type index expression to the temporary scalar, and use the temporary in the original index operation which was encountering the defect.

Fix information:
This defect was corrected in the S300 HP-UX 7.40 C compiler release.

KPR #: 4000097428   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: LP

One-line description:
"lost connection" with remote spooling makes file lpd.log fill up disk

Problem:
When rlpdaemon loses the connection to remote machine, rlpdaemon tries to fill a disk with a lot of error message "lost connection".

Cause:
When there is something wrong with the connection between rlp(1M) and rlpdaemon(1M), rlpdaemon(1M) wouldn't stop writing error message to a logfile.

Fix information:
Will be fixed in the release 8.0

KPR #: 4000097451   Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
C1 internal error in "function": illegal leaf node 49

Problem:
Compiler error message when the tree node table needs to be expanded twice.

Cause:
The tree node table is being incorrectly coalesced.

Temporary solution:
Use the +Ne option to increase the size of the initial tree node array. For example, cc +Ne,1000 file.c

Fix information:
Fixed in release 7.01.

Signed off 10/30/90 in release B07.01

KPR #: 4000097865   Product: S300 GENERAL HPUX   98680B   03.00

One-line description:
"type clash" error points to wrong production

Problem:
In the following error message:

fatal error: default action causes potential type clash, line 1053

the production in line 1053 was NOT the one at fault. In fact, the error was in the PREVIOUS production, which is not always very nearby because of intervening action lines.

Cause:

The scanner looks ahead to determine the next token in a rule or find the end of the rule. By the time it is known that the rule is ended and then the rule is processed the scanner has moved to the first token beyond the rule, and that is what the lineno reflects.

Fix information:

The "fix" was to reword the message to say "possible type clash in the preceding production"

Hopefully, this will direct the user to look from this line number backward.

This change is in release 8.0.

- S300 GENERAL HPUX -

KPR #: 4000097865   **CONTINUED**

KPR #: 4700774497   Product: S300 GENERAL HPUX   98680B   03.01

One-line description:
tset does not use is[123] to initialize (see terminfo(4))

Problem:
tset should do:

is1
is2
set tabs with tbc and hts
cat if
run iprog
is3

it only sets tabs and cats if.

Cause:
The tset command has never used is[1-3], rs[1-3] or iprog. Though these are clearly documented in terminfo(4) as part of the expected means of initializing the terminal.

Temporary solution:
The workaround is to put the initialization string in 'is2', which is currently emitted after tabsetting and before 'if' is cat'ed.

Fix information:
The behavior has been changed to follow that described in terminfo(4). Fixed in 8.0.

KPR #: 4700801597   Product: S300 GENERAL HPUX   98680B   03.01

One-line description:
SAM doesn't appear to be able to add fiber link disks.

Problem:
The problem was that SAM was not allocating sufficient storage for another variable that was being used. Between the time it set the interface and the time it was used, it wrote to this other variable, and overwrote part of the interface variable. Thus it always thought it was a CIO HPIB device, and would attempt to use an HPIB device file rather than an HPFL device file.

Cause:
The problem was that SAM was not allocating sufficient storage for another variable that was being used. Between the time it set the interface and the time it was used, it wrote to this other variable, and overwrote part of the interface variable. Thus it always thought it was a CIO HPIB device, and would attempt to use an HPIB device file rather than an HPFL device file.

Fix information:
Has been fixed for release 7.0 of HP-UX.

- S300 GENERAL HPUX -

KPR #: 4700879924   Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
no table entry for op REG (unoptimized)

Problem:
The following program will not compile.

```
    struct qnode { struct qnode *qu_next,*qu_last; };
    int f(p1) register int *p1;
    {
        register int *a,*b,*c,*d;
        register struct qnode *qf;
        (qf->qu_next = qf->qu_last)->qu_next = qf->qu_next;
    }
```

The compiler aborts with the message "no table entry for op REG"

Cause:
There are a number of possible reasons why a program will not compile
and will abort with the message "no table entry for op REG". There
is no way to know if it is a duplicate of this problem without trying
a fixed compiler.

Fix information:
Fixed in the 7.40 release of the HP-UX compilers for the Series 300.

KPR #: 4700901041   Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
`diff -e ... | ed -` results in 2-byte file ("?\n") -- unusual case

Problem:
With two versions of a particular file, the following sequence results
in incorrect output:

```
    (diff -e oldfile newfile; echo '1,$p') | ed - oldfile >result
```

The "result" file contains only "?\n".

I've attempted to isolate the problem, but I cannot. Deleting the top
portion OR the lower portion of "oldfile" and "newfile" produces correct
results (for those portions). The problem persists when a line is added
to the top and/or bottom of either file.

I've also tried replacing "ed" with "ex", to no avail.

I use the above command sequence frequently. It fails on only on a few
files.

I can provide a 131-Kbyte shar file on request which contains the files
needed to reproduce the problem.

Because this procedure is the cornerstone of our repeated integration
with external partners, we would very much appreciate a work-around or
an identification of the what causes the problem so that we can look

                                - S300 GENERAL HPUX -

KPR #: 4700901041 **CONTINUED**

for and avoid it in the future.

Fix information:
Fixed in release 8.0.

KPR #: 5000121756   Product: S300 GENERAL HPUX   98680B   03.11

Keywords: PASCAL   BOOTSYS

One-line description:
Special handling required for SR #5000121756.   See labtext.

Problem:
860312
S 0200
When powering up a 310 with a built in video board and display
compatibility interface, boot up BASIC 4.0 off the SRM.
Following; if you execute a sysboot command to load the VT100
(98791B with 200 series environment and 300 series vt100 Prog)
to use with the compatibility interface, the cursor did not appear
on the CRT after the vt100 came up. The same problem exists when
HPLPLUS is re-boot with sysboot. A fix is to enable compatibility
interface with CONTROL CRT,21;1 (or remove CRTB from BASIC 4.0) and
then do a sysboot. The cursor then appears as it does if vt100 is
booted in powerup with it.

Temporary solution:
Enable compatibility interface with CONTROL CRT,21;1 (or remove CRTB
from BASIC 4.0) and then do a sysboot from BASIC. Alternatively,
reboot by cycling power.

KPR #: 5000170340   Product: S300 GENERAL HPUX   98680B   05.01

Keywords: SCCS

One-line description:
Problems with sccs and files larger than 3.35 megabytes.

Problem:
SCCS will not accept a file larger than 3.35 megabytes.

admin -ifile s.file

goes fine. But

admin -h

returns the message "corrupted file".

get -e s.file .

returns the message "format error at line 3 (co4)"

Cause:
SCCS can only handle file up to 99999 lines in length.

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KPR #: 5000198770   Product: S300 GENERAL HPUX   98680B   05.15

Keywords: VI

One-line description:
Problem with terminfo and vi using 2392Sa

Problem:
Using a 2392a HP terminal in ANSI mode with TERM=vt100, s300hpux. When
in the vi(1) editor, having problems with the up and down arrow keys.
If the down arrow was held down to scroll down several screens, the
escape on the key escape sequence would not always be read.
The down arrow in terminfo vt100 is kcud1=\E0A

When the escape was not seen while scrolling the "0" would act as a usua
l vi(1) open line above cursor command. This would happen intermittently

Fix information:
May be fixed in a future release.

KPR #: 5000216697   Product: S300 GENERAL HPUX   98680B   05.15

Keywords: COMPRESS

One-line description:
(un)compress may not retain modification time.

Problem:
I have found what I consider a bug in the "compress" program in HP-UX
5.2. If I do a "compress" or "uncompress" on a file which I own, the
resulting file still has the original owner, permissions, and modifi-
cation date. However, if I do a "compress" or "uncompress." on a file
which I do not own, the resulting file still has the original owner and
permissions, but the modification date and time are changed to the
current time.

My users and I store a great many sccs files in compressed format. It
is convenient for all of us to be able to uncompress these files
regardless of the last person (owner) to use them.

The retention of the last modification date is one of the features I pre
ferred over "compact", which altered the modification date (as well as
the ownership) of the file. This retention is useful to help identify
the last update of the file, without having to use "prs" (on sccs files)
or view the file itself.

Cause:
The owner and group file attributes were being set before the
modification and access times were begin set. Because you did
not own the file, the access and modification times were never
set properly.

Fix information:
Fixed in HP-UX release 8.0

- S300 GENERAL HPUX -

KPR #: 5000170340

Temporary solution:
run wc -l on files to be administered by SCCS and assure that they start
out well below 99999 lines so they can grow without exceeding that
limit. The csplit(1) command may be used on program files to split them
into reasonable chunks.

Fix information:
This defect is fixed in 8.0.

KPR #: 5000178038   Product: S300 GENERAL HPUX   98680B   05.15

One-line description:
jobs disappear from lp queue, but not printed

Problem:
System Configuration: HP 9000 Series 300 running 5.15, with a
82906A printer on internal HPIB, with 9144 and Thinkjet also
off same HPIB.
Problem: queue up jobs on 82906A (hereafter printer) with printer
online, prints out fine. If off-line, job is shown in queue, with
lpstat for a few minutes but after 4 minutes goes away. If the
printer is brought back online before queued job goes away, it prints
out, otherwise the job is lost. The printer model that was used
was 2631G per the Series 300 Configuraion Reference Manual.

Fix information:
Has been fixed in 6.0 release

KPR #: 5000184275   Product: S300 GENERAL HPUX   98680B   05.15

One-line description:
line printer spooler can lose data if printer is off line

Problem:
When using the line printer spooler on a 320 running HP-UX 5.17 with a
HP-IB 256x (non-cipher) printer and the printer goes off line (e.g.
runs out of paper, off line key pressed, etc.) the spooled file is
released. That is the spooler does not hold the file until the printer
is put back on line. THIS RESULTS IN A LOSS OF DATA FOR THE CUSTOMER.
It also does not matter which spooler model is used.

KPR #: 5000192682   Product: S300 GENERAL HPUX   98680B   05.14

Keywords: NROFF

One-line description:
problems using table for matting and interactive text together

Problem:
TRYING TO USE BOTH TABLE FORMATTING AND INTERACTIVE TEXT WITH THE MM MAC
ROS USING mm -t FILENAME. USING THIS COMMAND THE TABLES CONTAINED IN THE
FILE ARE PROCESSED,BUT THE INTERACTIVE PORTION OF THE FILE(.RD COMMANDS)
ARE NOT PROCESSED, THE WORKAROUND IS TO DO A TBL FILENAME > FILEOUT A
ND THEN NROFF FILEOUT > FILEDONE.

- S300 GENERAL HPUX -

KPR #: 5000219485   Product: S300 GENERAL HPUX   98680B   05.11

Keywords: ACCOUNTING

One-line description:
accounting does not properly report users' connect time.

Problem:
Frank Stutzman, Santa Clara Response Center
The accton command of the accounting package encounters a user name that contains a character that is other than an alphanumeric, a space or a $, it marks that user as being invalid and does not properly report that users connect time in the prdaily report.

Cause:
"acctconl.c" was checking for valid wtmp records. The checks were performed for any alphanumeric character, "$", and space. "." is the only other legal character allowed in the password file. Since it was not checking for this, it complained that the record was a bad one which consequently gets printed out as an error message.

Temporary solution:
The workaround for this bug is not to include a "." in the users field. If some other legal character has to be used, then it is recommended that a "$" be used instead of a ".".

Fix information:
There was no check being performed to see if there was a "." in the user field of the password file. Since "." is a legal character, a check was added in "acctconl.c" to ensure that it did not complain about it. The program now processes all records containing "." in user field correctly.

KPR #: 5000220160   Product: S300 GENERAL HPUX   98680B   05.03

Keywords: LIFCP

One-line description:
Lifcp with BDAT files not properly documented.

Problem:
The HP-UX Reference, 09000-90009 December 1986 Update, under lifcp(1) attempted to copy a file from HP-UX to LIF using a file type of -5791 does not explain the relationship between implementation values and in raw mode, the resulting LIF file had a protection on it and the record sizes were wrong. For example, when the customer the protection and record sizes under Basic. Hence, when the customer

lifcp -r -T -5791 bdat_hpux /dev/rfd:BDAT

results in a file named BDAT on the LIF volume that is protected. Furthermore, the record size is 1 byte when 256 bytes/record was

                                - S300 GENERAL HPUX -

KPR #: 5000220160 **CONTINUED**

desired.

Lifcp(1) DOES NOT say to use the implementation option to get around this-- it should.

Temporary solution:

The workaround to the problem is to create a file under Basic with the desired attributes, and then list the LIF file under HP-UX using lifls to get the implementation value, eg. lifls -l or lifls -i.

lifcp -r -T 0xfffe961 -i 0x20200080 bdat_hpux /dev/rfd:BDAT

Fix information:
The lifcp(1) manual page was updated to support BDAT.

KPR #: 5000221259   Product: S300 GENERAL HPUX   98680B   05.20

Keywords: SH

One-line description:
cannot boot from 5.21 recovery system

Problem:
Bug in /bin/sh prevents booting from s500 hp-ux 5.21 recovery system. When trying to boot from the recovery tape the customer received the error,

/bin/-sh: Unexpected memory fault
/bin/-sh: No more space

The latter message was repeated endlessly.

There is no workaround. /bin/sh should be fixed to correct the problem.

Fix information:
Fixed in Release 5.3.

Signed off 10/26/89 in release B05.30

KPR #: 5000224683   Product: S300 GENERAL HPUX   98680B   05.03

Keywords: MM

One-line description:
MM ignores Bolding.

Problem:
Nroff -mm will properly bold using a laserjet printer and .B command. MM will not, the bolding is ignored, no errors are generated.

Cause:

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KPR #: 5000224683   **CONTINUED**

This defect is caused by inappropriate use of hp(1) in mm.

Fix information:
Fixed in the release 6.5.

Signed off 11/01/90 in release B06.05

KPR #: 5000225904   Product: S300 GENERAL HPUX   98680B   05.21

Keywords: MOUNT

One-line description:
Rev.5.2 mount(1) doesn't work with floppy discs.

Problem:
After an upgrade from 5.11 to 5.21 on a 9000 s/520 the use
of the new version of mount on the integrated 5 1/4 " floppy
generated the following message:
    mount:/rdev/fd : no such file or directory
    warning: /dev/fd may not be clean

Temporary solution:
The workaround to this problem is to move floppy disks to the new disk
device directories:

    /dev/rfd   --> /dev/rdsk/fd
    /dev/fd   --> /dev/dsk/fd

Although it was not necessary in releases prior to 5.2 to have a 'raw'
device file for a disk, new features in 5.2 (specifically support of
the fsclean byte) require that such a device exist. Mount, along with
several other commands, assumes that the character and block device
files are located in the /dev/rdsk and /dev/dsk directories,
respectively, with a common basename, as described in the DISK(7) HP-UX
Reference Manual.

Fix information:
Fixed in release 5.3.

Signed off 10/26/89 in release B05.30

KPR #: 5000228635   Product: S300 GENERAL HPUX   98680B   05.03

Keywords: DELTA

One-line description:
Delta(1) hangs when reading files with very long lines.

Problem:
Using SCCS. After checking out a file, editing and trying to check
it back in with delta(1), delta will hang and never return if the
edited file contains very long lines (greater than 720 characters)

Cause:
Line buffers were too short to hold lines read by stdio.

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KPR #: 5000228635   **CONTINUED**

Fix information:
Line buffer size was changed to match stdio BUFSIZ in 6.5 release.

Signed off 11/06/90 in release B06.05

KPR #: 5000232702   Product: S300 GENERAL HPUX   98680B   05.03

Keywords: TSORT

One-line description:
Tsort(1) generates spurious output line when processing long file names.

Problem:
Using "lorder" and "tsort" to build a library from existing ".o" files.
The file names (which include the full path name) are about 50 to 55
characters long. The output from "tsort" includes an extra line which
has characters similar to "x.o" as the first line.

Cause:
Character arrays for the names were only 50 characters long.

Temporary solution:
Filenames to be tsort'ed should be shortened to less than 50 chars.

Fix information:
In 8.0 release.

KPR #: 5000233601   Product: S300 GENERAL HPUX   98680B   05.05

Keywords: LP

One-line description:
Slp(1) doesn't allow "-a" and "-d" options together.

Problem:
When using the "slp" command, you can't simultaneously change the
default parameter setting and display the current settings. For
example:
  slp -io >/dev/lp   #change indentation=0
  slp -d -a >/dev/lp   #This doesn't work.
  line=66 columns=132 indent=0 # output generated by "slp" command.

Cause:
Because the lp(7) device driver doesn't any capability to read the
default value of the printer, there is no way for slp(1) to get
the default without close and reopen of the driver.

Fix information:
Will be fixed in HP-UX 8.0 release for S300 and S800.

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KPR #: 5000235984   Product: S300 GENERAL HPUX   98680B   05.21

Keywords: CATMAN

One-line description:
Running catman(1) at high priority (with "nice") causes system errors.

Problem:
Executing catman with a nice -19 generates errors (catman by itself
works fine). These errors are of the form "*.*: no such file or
directory".

If this is not enough this also causes problems with the shutdown
procedure. After the above is executed the following error messages
alternate come from the shutdown script:
        init process termination; errno=4 errinfor=309, trapno=0
   and init process termination: errno=25,errinfo=320, trapno=0
The shutdown does continue and the reboot seems to be fine.

Cause:
The system error messages were a result of attempting to open
directories that did not exist. Since it was normal for catman to
attempt to open directories in order to find out if it needed to create
them, the error messages have been eliminated.

Fix information:
Fixed in release 7.0.

Signed off 11/07/90 in release B07.00

KPR #: 500024236   Product: S300 GENERAL HPUX   98680B   05.02

One-line description:
PAM does not work properly with 98700 stations.

Problem:
9050 hp-ux 5.2 with 98700 display station. Pam(1) does not work
properly when run on the 98700 display station.

When pam(1) is invoked it appears correctly on the display, but
to invoke a command from the command line you have to type it twice
hitting <cr> each time.

The output from the command does not fill the screen, as it should,
despite the fact that the TERM variable is set to "98700". This
worked properly under the previous release of hp-ux 5.1.

KPR #: 5000271213   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: KERNEL

One-line description:
defect in terminal driver following multiple fopens and fcloses of a file

Problem:
The following program is only used to illustrate the problem

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KPR #: 5000271213 **CONTINUED**

with the terminal driver somehow being confused, after
multiple opens and closes of files using fopen and fclose.

If there are any questions about this please contact the
submitter at (714) 758-5552
                    Keith W. Guerin
                    Hewlett Packard Co.
                    Fullerton, Calif 92631.

Cause:
The open count on the ITE was not being incremented by ite_open. When
it was decremented by ite_close, it caused the ttclose(T (the line
discipline close) routine to be called. This broke the tty affiliation,
which in turn disables <BREAK> and the INTR keys.

Fix information:
This defect has been present in the ITE since 5.0, and will be
fixed in a future release.

KPR #: 5000280461   Product: S300 GENERAL HPUX   98680B   05.05

Keywords: CURSES

One-line description:
CONFLICT BETWEEN CURSES, SIGVECTOR AND SETITIMER

Problem:
SERIES 330 HPUX 5.5   ELEZA SMITH - SANTA CLARA RESPONSE CENTER

There is a conflict when an application uses curses, sigvector, and
sititimer. The application is using setitimer and sigvector to
refresh the screen on a periodic basis (every second) . If an escaped
key is pressed on the keypad, right arrow key for example, the curses
routine does not replace the signal. The following code will reproduce
the problem.
#include<curses.h>
#include<time.h>
#include<signal.h>
#define KEY_F1 0411
#define KEY_F2 0412
#define BLANK ""
int dis_val = 1;
int ch = 'a,;
int done = 0;
char ch_str[200];

Fix information:
May be fixed in a future release.

KPR #: 5000286476   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: SH

One-line description:
problem with setting term variable

                    - S300 GENERAL HPUX -

KPR #: 5000286476 **CONTINUED**

Problem:
I have discovered that if I do the following steps my screen locks up:
    with my TERM variable set to hp,
    enter vi
    Q
    set term hp9837
    vi

and after that my 9837 is locked up. I believe that this is a bug. I hav
e
6.0 on my 310.

KPR #: 5000290544   Product: S300 GENERAL HPUX   98680B   06.00

One-line description:
"/seek " does not work on CTD character special file

Problem:
"lseek" doesn't work on the character special file of CTD.

This may be the lack of manual description.

When we open the character device of CTD, "lseek" and then "read" data, unexpected data is read. If we use the block special file, there is no problem.

There is a note "Some devices are incapable of seeking" in HP-UX Ref. lseek(2), but there is no description about what devices are incapable of seeking.

KPR #: 5000298687   Product: S300 GENERAL HPUX   98680B   02.00

One-line description:
Kermit do not handle long filenames correctly.

Problem:
Kermit code uses read instead of directory(3C) library calls.

Cause:
Current kermit code is not written with long filename support.

3-20-89

Temporary solution:
No known workaround.

3-20-89

Fix information:
Will be fixed in a future release of HP-UX for the 300/800.

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KPR #: 5000298687 **CONTINUED**

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Fixed in 8.0

KPR #: 5000299735   Product: S300 GENERAL HPUX   98680B   06.01

One-line description:
a sparse file causes kernel panic

KPR #: 5000396648   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: LP

One-line description:
line printer hangs

Problem:
Sometimes a cancel operation would cause a SIGTERM signal to be sent before the spool system was ready for it. caused the files /usr/lib/lp/FIFO and /usr/lib/lp/SCHEDLOCK to be removed. This left lpsched running (reading from a pipe) but no way for lp to tell it to start a spool operation because it could not write to FIFO.

In the above text I believe /usr/lib should be changed to /usr/spool.

Fix information:
Fixed in the 7.0 release of HP-UX for Series 300 and 800.

Signed off 11/06/90 in release B07.00

KPR #: 5000397711   Product: S300 GENERAL HPUX   98680B   02.00

One-line description:
Enhancement request to increase the number of files sort can handle

Problem:
The problem is a system-imposed limitation on the number of open files a process may have at any one time. Although this is a limitation, there is an easy workaround provided. Increasing this limitation will have serious repercussions on the rest of the system.

Cause:
HP-UX limits the number of open files a process may have. When a user tries to sort more than 58 files, the command bombs.

Temporary solution:
As a temporary workaround you can sort some of the files into a temporary file, sort the rest into a different temporary file and then sort the two temporary files into the final result.

This script takes the same command line as sort and will sort
                        - S300 GENERAL HPUX -

KPR #: 5000397711 **CONTINUED**

up to 2500 files. WARNING, it has had only cursory testing.

```
# ------------------------- cut here -------------------------
# This is a shell archive.  Remove anything before this line,
# then unpack it by saving it in a file and typing "sh file".
# ------------------------------------------------------------
# Wrapped by bstowell at hpisoe6 on Fri Sep 23 15:22:17 1988
#
# This archive contains:
#       SORT
#
#
# Error checking via wc(1) will be performed.
# Error checking via sum(1) will be performed.

LANG=""; export LANG

echo x - SORT
cat >SORT <<'@EOF'
: # sort up to 2500 files
# $Header: SORT,v 1.2 88/09/23 15:11:15 bstowell Exp $
td="/tmp"            # directory for merge files
mx=50                # maximum files sort can handle
trap "/bin/rm -f $td/mf$$.*; trap 0; exit 1" 1 2 3 15
trap "/bin/rm -f $td/mf$$.*; exit 0" 0
opts=""              # get options from command line
while [ 1 ] ; do
    c=`expr substr $1 1 1`
    if [ "$c" != "-" -a "$c" != "+" ] ; then
        break
    fi
    opts="$opts $1" ; shift
done

sf=$#                # number files to be sorted
i=1; j=0; sl=""; mf=0; ml=""
while [ $i -le $sf ] ; do
    sl="$sl $1" ; j=`expr $j + 1` ; shift
    if [ $j -eq $mx ] ; then
        mf=`expr $mf + 1` ; ml="$ml $td/mf$$.$mf"
        sort $opts $sl >$td/mf$$.$mf
        j=0 ; sl=""
    fi
    i=`expr $i + 1`
done
mf=`expr $mf + 1` ; ml="$ml $td/mf$$.$mf"
sort $opts $sl >$td/mf$$.$mf
if [ $mf -gt $mx ] ; then
    echo `basename $0`: too many files
    exit 1
fi

sort -m $opts $ml
rm -f $td/mf$$.*
@EOF
set -- `sum <SORT`; if test $1 -ne 62935
then
    echo ERROR: SORT checksum is $1 should be 62935
```

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KPR #: 5000397711 **CONTINUED**

```
fi
if test "`wc -lwc <SORT`" != '        33    181   880'
then
    echo ERROR: wc results of SORT are `wc -lwc <SORT`
    echo \\t\\tshould be        33    181   880
fi

chmod 544 SORT

exit 0
```

Fix information:

Code change to support > 58 files... 1024.
This change will be effective in HP-UX 8.0.

KPR #: 5000397737   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: KSH

One-line description:
.sh history does not come up as default

Problem:

For user root, no history file is used unless the HISTFILE
parameter is set in the .profile or $ENV files. The ksh
man page states that the default value is .sh_history, but
this is not the case for root.

Temporary solution:

In either root's .profile or root's $ENV file, set the HISTFILE
parameter to the name of the desired history file. Ksh will not
turn on history for root unless HISTFILE is set (no default for
root).

Fix information:

For the 8.0 release of HP-UX, the ksh(1) man page documents
the behavior of shell history for the user root. See the
section describing the HISTFILE variable.

KPR #: 5000400846   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: AXE

One-line description:
axe system doesnt have tty command used by lp spooler scripts

Problem:
The command /bin/tty is used by some of the example LP spooling

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KPR #: 5000400846 **CONTINUED**

scripts that is part of the AXE product. However, /bin/tty only
exists in a fileset that is supplied as part of the PE product.
This causes some of the LP spooling scripts to fail in certain
situations.

02/28/90

Cause:
This defect is really caused by the LP model scripts using a command
when they could be using a builtin shell test. Rather than use:

```
if tty -s <&1 ; then
    echo "its a tty"
else
    echo "its not a tty"
fi
```

The scripts should have used:

```
if [ -t ]; then
    echo "its a tty"
else
    echo "its not a tty"
fi
```

Thus, the scripts would no longer be dependent on the 'tty' command,
which is not necessarily available in the AXE product.
02/28/90

Temporary solution:
The occurrances of "tty" in the LP model scripts may be changed from:

```
if tty -s <&1
```

to:

```
if [ -t 1 ]
```

This workaround is not necessary on HP-UX 7.0 or later releases, as
the model scripts now use this method to determine if the output
device is a tty.
02/28/90

Fix information:
Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

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KPR #: 5000400846 **CONTINUED**

Signed off 11/16/90 in release B07.00

KPR #: 5000404012   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: NROFF

One-line description:
nroff hangs on specific input file

Problem:
The nroff command hangs on a specific input file. The input file is
incorrect however. The diversion to "T" starts at 10 lines before from
bottom of page. (.wh -10v ET) While in the diversion, page position is
not increased therefore ".FT" is never invoked. So the diversion does
not end.

KPR #: 5000410191   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: LP

One-line description:
LP -W SOMETIMES FAILS TO SENDS MAIL TO PROPER USER

Problem:
Lp -w sometimes fails to send mail to proper user in case that
the user rlogin/telnet to the host and logout from the machine
during printing his request. Instead of mailing to him, lpsched
writes the message to the next user's terminal, who login to the
host after the user logout.

Cause:
When lpsched check to see if the user login to the host, it does
check only if the login name exists in the utmp file, not check
the process status. Therefore, even if the user logout from the
machine, his entry remains there, so lpsched gets a wrong port.
Since the port can be used for the next login user, the next one
may get the lpsched's message instead of the proper user.

Fix information:
Fixed already in HP-UX 7.0 S300/S800.

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KPR #: 5000410191 **CONTINUED**

Signed off 11/06/90 in release B07.00

KPR #: 5000417394   Product: S300 GENERAL HPUX   98680B   05.21

One-line description:
NROFF STORAGE CAPACITY IS TOO SMALL.

Problem:
Customer was getting "Out of temp file space" error messages and nroff was aborting early.

Cause:
The cause was due to insufficient data storage within nroff. The defect was repeatable on both S300 and S800, 7.0 and 8.0. When the table was full, the message "Out of temp file space" is generated and nroff exits.

Fix information:
The fix will be in Release 8.0. The version number of nroff should be 66.10 or higher.

KPR #: 5000419028   Product: S300 GENERAL HPUX   98680B   03.00

One-line description:
In SAM, need an optional field for passwd while setting up UUCP

Problem:
This is an enhancement request to change the way SAM handles passwords f
or
UUCP.

Cause:

The "caret" functions requires data in this field.

Fix information:
No plans for a fix at this time.

KPR #: 5000419770   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: UMOUNT

One-line description:
AMOUNT DOES NOT REMOVE TMP FILES

Problem:
umount(1M) makes a temporary file that will eventually replace /etc/mnttab. If the umount(1M) fails for any reason, the temporary file will be left in place.

Cause:
In order for umount to create a new version of /etc/mnttab, a temporary file is created to hold what will be the new

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KPR #: 5000419770 **CONTINUED**

/etc/mnttab file. If the umount fails for any reason, the temporary file is not removed.

Temporary solution:
These files are always the /etc directory. Furthermore, the file names always start with the characters /etc/umount. These files can be removed by directing cron to rm /etc/umount[a-z][0-9]*.

Fix information:
umount(1M) uses the kernel's view of the mounted file systems rather than attempting to create a new file based on what the /etc/mnttab file states as mounted. The result is an accurate /etc/mnttab file using no temporary files. This repair is in release 8.0.

KPR #: 5000420117   Product: S300 GENERAL HPUX   98680B   06.00

Keywords: LP

One-line description:
Lpr script doesn't correctly handle the -R option

Problem:
lpr script doesn't handle the "-r" option properly.

Cause:
The "remove" variable in the script haven't been addressed correctly.

Temporary solution:
The temporary correction is to put a $ in front of the REMOVE variable.

For example:

INCORRECT: CORRECT:

IF [REMOVE = TRUE]   IF [$REMOVE = TRUE]

THEN   THEN

    RM -F $FILES   RM -F FILES

FI   FI

Fix information:
Fixed in the 6.5 release of HP-UX.

Signed off 11/06/90 in release B06.05

KPR #: 5000435899   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: UUCP

One-line description:
the -j and -o options to uustat return an illegal option message

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KPR #: 5000445296   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: KERNEL

One-line description:
kernel should always check either euid or ruid - be consistent

Problem:
The problem is that a program that had a real uid of other than "root",
but an effective user id of "root", could not run the programs
/bin/mkdir and /etc/mknod. Both mkdir and mknod would complain that
you must be root, since they checked the real user id, not the effective
user id. This is inconsistent with the kernel since, in almost all
cases, the kernel checks the effective user id, not the real user id.

03/16/90

Cause:
This problem was caused by the fact that /bin/mkdir and /etc/mknod
were, at one time, setuid programs themselvs. Since running one of
these programs would always change the effective user id to "root"
they had to check what the real user id was to ensure that the caller
had the correct permission.

This is a general problem with running a setuid program from a setuid
program, and there is no real solution, except to minimize the number
of setuid programs, especially for system utilities. The programs
/bin/mkdir and /etc/mknod were setuid root since it was desired to
allow a user to create directories and/or FIFO files, but the kernel
routines need to perform these tasks required root permission.

As HP-UX has evolved, a mkdir(2) system call has been added that does
not require root permission. Similarly, the mknod(2) system call has
been modified to allow the creation of FIFO special files without
requiring root permission. Consequently, /bin/mkdir and /etc/mknod
are no longer setuid programs, so these programs may be invoked from
a setuid program without requiring the real user id to be "root".

In the defect report, the submitter stated:

    It has been suggested that having these #!<shell> scripts lying
    around on the system may be a security threat, but if this is so
    then how can HP justify scripts such as /etc/shutdown, /etc/backup,
    and /etc/netlinkrc.

Scripts beginning with "#!<shell>" are not a security threat. The
security threat arises when one of these scripts is marked setuid or
setgid. It is possible for a non-root user to invoke a setuid or
setgid script in such a way as to cause arbitrary commands to run as
another user. The exact sequence of of commands to cause this to
happen is complicated (and is not described here, since it is best if
the mechanism to take advantage of the security threat is not widely
known), but it is possible.

Consequently, you should avoid setuid and setgid scripts. If you wish
to invoke a script as another user, create a setuid program that
merely runs the script. This causes no security threat.

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KPR #: 5000436899 **CONTINUED**

Problem:
uustat manual page lists unsupported options

Temporary solution:
Don't use any of the options listed as S300 only

Fix information:
When H-P adopted HDB uucp, all of the S300 specific uustat options
became obsolete. The manual was not updated to reflect these changes.
It will be chagned for the 8.0 release.

KPR #: 5000437129   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: RMNL

One-line description:
return code from "rmnl" is incorrect.

Problem:
The command would exit and not return a value when everything
worked fine.

Cause:
The code would exit without returning a value when everything
worked without error.

Fix information:

The rmnl command was fixed for HP-UX Rev. 8.0 for the s300 and s800
architectures. The fix involed a code change to return the correct
status for no error. This fix is at level 66.1.

KPR #: 5000440180   Product: S300 GENERAL HPUX   98680B   02.01

One-line description:
acctcom(1) doesn't properly report command exit status codes -- ATT

Problem:
The STAT field in the output of the acctcom command was never documented
very well. Users expected it to be the exit status of commands, similar
to $? in sh or ksh. If a command did an exit(1), they felt acctcom
should show a 1 in that field.

Temporary solution:
There is no workaround.

Fix information:
The fix will appear in Release 8.0.

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KPR #: 5000445296 **CONTINUED**

03/16/90

Fix information:
/bin/mkdir, fixed in the 7.0 release of HP-UX on the Series 300 and 800.
/etc/mknod, fixed in the 8.0 release of HP-UX on the Series 300 and 800.

03/16/90

KPR #: 5000448654   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: LP

One-line description:
Cannot do raw output to serial device using the hp2686a model script

Problem:
The current HPUX 6.2 AXE or PE environments do not accomodate raw output to a serial device using the hp2686a model script,revision 56.16.

Cause:
See fix text.

Fix information:
Fixed in release 7.0.

Signed off 11/06/90 in release B07.00

KPR #: 5000458059   Product: S300 GENERAL HPUX   98680B   03.00

One-line description:
Lint gives erronous messages

Problem:
The problem is that the following program has a well defined evaluation order and thus the lint message about evaluation order being undefined is spurious:

```
main(){
    void exit();
    char s[20],*gets();
    int n;
    if ((n = strlen(gets(s)))<6 || (n -= n%2) > 2)
        printf("error\n");
}
```

lint complains:

warning: n evaluation order undefined

Cause:
The cause is because lint didn't take into account the sequencing

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KPR #: 5000458059 **CONTINUED**

operator ||.

Fix information:
Fixed for release A.08.00.

KPR #: 5000458380   Product: S300 GENERAL HPUX   98680B   03.01

One-line description:
swapon -a doesn't work

Problem:
The swapon command, when invoked with the -a option, would not accept an entry in /etc/checklist unless it had all fields present, even if those missing were not used by swapon.

Cause:
The cause of the problem was that the swapon command was not using library functions to return information about entries in /etc/checklist. Instead it had a home-brew interpretation. Using library functions permits missing fields to be handled gracefully.

Fix information:
The fix will be in Release 8.0.

KPR #: 5000465161   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: LP

One-line description:
lpstat generates bad output when IO is redirected

Problem:

The lpstat command works fine when you have a local printer and a remote printer and send the output to the screen but if you redirect the output to a file the order of the printers is corrupted.

The complaint here is that the lpstat output, when sent to a file, does not match the output when it is sent to the screen. In particular, the remote print queue information appears at the tail of the screen, but at the head of the file. The information is not corrupted, it just does not appear in the same order.

Cause:
The cause of this defect was that output to a terminal is line buffered, where output to a pipe or file is fully buffered.

Fix information:
This defect may be corrected in the 8.0 or 9.0 HPUX release.

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KPR #: 5000468884   Product: S300 GENERAL HPUX   98680B   03.00

Keywords: STARBASE

One-line description:
gopen with RESET_DEVICE does not behave properly when using A1047A board

Problem:
There is a timing problem with the graph2 driver and the nimbus (A1047) board. The problem shows up as a starbase error 2058 (I/O error).

Error occured in a short program which did a gopen of a display (98730) and a locator (mouse). The program would work fine the first time it was run and fail the second time unless moved to a new name or recompiled.

The workaround was to put a sleep(1) between the two gopen statements.

Cause:

With the little information given and the fact that in 7.0, the problems is fixed, I do not know what caused this to happen.

Fix information:

The bug was fixed in release 7.0.

KPR #: 5000470922   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: CRON

One-line description:
need to change the effective use of \ in crontab

Problem:
The code in cron.c wasn't mapping \% to % inside a command. It does now.

Cause:
The code in cron.c wasn't mapping \% to % inside a command. It does now.

Fix information:
Fixed in release 8.0.

KPR #: 5000471979   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: MKDIR

One-line description:
mkdir has undocumented limit of 1000 sub directories

Problem:

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KPR #: 5000471979 **CONTINUED**

Hp-ux was changed to allow no more than {LINK_MAX} links to a directory. This change was made so we could pass the SVVS and claim SVID conformance. We all hope that ATT will remove this as part of the definition of System V. The change is not documented on the mkdir(1) man page but is documented on the mkdir(2) page, although there is no indication of where LINK_MAX is defined. I will update the man pages for 8.0 to make this clearer.

Fix information:
Fixed in 8.0

KPR #: 5000475848   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: CDB

One-line description:
CDB COMES UP IN LINE MODE IF WRONG TERM TYPE SET

KPR #: 5000476200   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: AR   BACKUP   FILE

One-line description:
ar(1) does not accept long filenames

Problem:
The problem is that the portable ar(1) format does not support long filenames, so each vendor kludges around this differently. Our particular kludge gives more functionality than other vendors (ie, it allows files to co-exist that couldn't in other implementations and won't overwrite data) but is not seen as compatible with broken implementation like Sun's.

The new SVR4 spec attempts to standardize a way to actually support long filenames; we may adopt this at future release.

Duplicate Service Requests: 5000505198 1650122846

KPR #: 5000477828   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: MKMF

One-line description:
MKMF SHOULD UNDERSTAND SCCS FILES

Problem:
mkmf does not know how to deal with s.file.c in the source directory and adds it to the SRCS list.

Cause:
mkmf's original design did not expect SCCS files in the source directory.

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KPR #: 5000482844   Product: S300 GENERAL HPUX   98680B   03.00

One-line description:
diskusg and acctdusg give different results

Problem:

acctdusg and diskusg gave different disk usages for the
same user on the user's home file system even though
the documentation clearly cites an example and says they
should be the same. For example, if /users was /dev/dsk/c1d0s8
and /users/alvyn had the following files in his home directory:
file1   alvyn   610 bytes
file2   root   610 bytes
then, acctdusg would add both and give disk usage in terms
of 512 blocks while diskusg would add only the first one and
report it in 1024 byte blocks.

Cause:

acctdusg was incorrectly adding all files in the users
home directory as belonging to the user even if it was
owned by somebody else. (This also caused the problem
that if the -u option was given, it would not report
the other owners files as not owned by anybody). Also,
it was reporting the output in terms on 512 disk block
size instead of the device block fragment size. Due to
these, it the output of acctdusg and diskusg were not
identical.

Fix information:

There were three fixes in acctdusg.c. The first one was
to check if the current file was being owned by the user
by comparing the login id and the uid from the file.
This ensured that only the users file got added for the
disk usage. The second fix was to round up the bytes of
the file in terms of the device block fragment size for
the Series 800 (usually 1024bytes). The variable DEV_BSIZE
was used to get the current fragment size. The third fix
was to log the file if it was not owned by the user and
if the "-u" option was present.

KPR #: 5000482943   Product: S300 GENERAL HPUX   98680B   03.01

One-line description:
SAM incorrectly translates mux0 driver LU in special file minor number

Problem:

The wrong major number was being used in certain cases in the
mkterm.sh script in SAM's back end code.

Cause:
see .problem

Fix information:

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KPR #: 5000477828   **CONTINUED**

Temporary solution:
The work around is to edit the makefile after it is produced and remove
SCCS file names. Be sure to remove "\<newline>" from preceding lines
when necessary.

Fix information:
This will be fixed in the HP-UX Release 8.0

KPR #: 5000478107   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: FUSER

One-line description:
chgrp(1) and newgrp(1) don't handle \ in /etc/groups correctly

Problem:
IN /etc/groups file if you use the \ to escape the newline character
the chgrp and newgroup commands fail to deal with the escape correctly.
In all other cases the \ is invisible to the commands being run.
This makes it impossible to have more than 12 lines as one whole line
because vi and ed can not handle any characters per line.

Fix information:
May be fixed in a future release.

KPR #: 5000481465   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: KSH

One-line description:
problem with timeouts in the Korn shell when in the vi editor

Problem:
If you run a ksh subshell from vi, and that subshell exits due
to the timeout feature of ksh (the TMOUT variable was set), then
after the ksh exits, vi is hung.

Cause:
In the case where ksh exits due to a timeout, ksh fails to set the
process group of the tty back to vi's process group. When vi tries
to access the tty, it is in the wrong process group and gets put to
sleep.

Fix information:
Fixed in the 8.0 release of HP-UX.

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KPR #: 5000482943   **CONTINUED**

This will be fixed for 8.0.

KPR #: 5000484337   Product: S300 GENERAL HPUX   98680B   03.01

One-line description:
/bin/rsh does not allow users to specify paths starting with /

KPR #: 5000484378   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: TAR

One-line description:
tar(1) creates files with // in front of file name

Duplicate Service Requests: 1650107037

KPR #: 5000487363   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: TERMINFO

One-line description:
terminfo, vt100 and xterm do not work together

KPR #: 5000493288   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: KSH

One-line description:
ksh(1) when trap on exit from a child in vi(1), terminal locks up

Problem:

If you spawn a ksh from vi, and the ksh has a trap set on EXIT, then when the ksh exits it, leaves the tty unusable for vi (the process group associated with the tty is wrong).

Cause:

Ksh cleaned up the tty before it executed any trap on EXIT. As a result of executing the trap on EXIT, the tty's process group was left the same as ksh's process group. The process group of the tty should be set to vi's process group before ksh exits. Note: this will only happen if job control is turned on in ksh (set -o monitor).

Fix information:

Fixed in the 7.0 release of HP-UX.

Signed off 11/01/90 in release B07.00

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KPR #: 5000493478   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: MOUNT

One-line description:
mount(1), df(1) say device mounted if its minor number same as root disk

Problem:
mount and df commands report duplicate devices as being mounted

Cause:
This problem is caused by having duplicate entries in the /etc/mnttab file.

Temporary solution:
A stop gap workaround is to edit the /etc/mnttab file and remove duplicate entries.

Fix information:
This problem is fixed in release 8.0.

KPR #: 5000493999   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: SHUTDOWN

One-line description:
"init s" or "shutdown 0" causes error message "HOME variable not set"

Problem:
The shell that is run in single user mode complains that the environment variable "HOME" is not set. This causes the "cd" builtin command to fail (when used without an argument), since the shell does not know where your home directory is.

All of the shells expect that a "reasonable" environment exist when you start them, this environment is expected to include "HOME".

03/19/90

Cause:
This problem is caused by the fact that /etc/init does not include the variable "HOME" in the environment that it sets up when running a shell in single-user mode. /etc/init should be setting up a "reasonable" environment for the shell, so that the shell can behave properly.

03/19/90

Temporary solution:
After the single-user shell is started, run the command:

    HOME=/ exec /bin/sh

This will overlay the current shell with a new shell that has HOME set.

03/19/90

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KPR #: 5000493999 **CONTINUED**

Fix information:
Fixed in the 8.0 release of HP-UX on the Series 300 and 800.

03/19/90

KPR #: 5000495978   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: CURSES

One-line description:
bus error in program on 300 using curses and shared memory allocation

Problem:
The kernel attaches a shared memory segment at a low address. This limits the amount of memory available for allocation by calloc. The caller of calloc in CURSES does not check for allocation failure. Bus error occurs when the null pointer returned by calloc is referenced.

Temporary solution:
Customer program can specify a high address in calling shmat. The shared memory segment will then be attached at that high address rather than at a low address chosen by the kernel. The address specified by the customer should be high enough so that enough memory is available for use by the calloc calls in CURSES.

Fix information:
This problem will be fixed in release 8.0.

KPR #: 5000496729   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: DISC

One-line description:
du -s on NFS-mounted directory on SUN disk reports in 256-byte blocks

Problem:
When using the du command on files or file hiearchies that reside on a non HP-UX filesystem, the number of reported disk blocks may be inacurate. This defect is new in the 6.05 release of HP-UX, the command worked correctly in the 6.0 release.

For example, when du is run on a filesystem that resides on a Sun system:

$ du /nfs/Sun-system/tmp
700 /nfs/Sun-system/tmp

the du command will report a value that is twice what it should be.
The command should have reported:

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KPR #: 5000496729 **CONTINUED**

$ du /nfs/Sun-system/tmp
350 /nfs/Sun-system/tmp

(which is what it did in HP-UX 6.0).

This problem still exists in the HP-UX 7.0 release.

02/26/90

Cause:
This problem was caused by a change made to the du command that assumed that the value returned by stat() call on a file in the st_blocks field are in units of 1024 bytes. This is true for HP-UX file systems, but not necessarily true for other vendor's.

In the 6.0 release, du used the st_size value and then scaled it by 512 to calculate the number of blocks. This is not always as accurate as using the st_blocks field for HP-UX filesystems, which is why the command was changed for the 6.05 release to use st_blocks.

However, du should only use st_blocks on HP-UX file systems. When calculating disk usage for foreign file systems, du should use the st_size field and scale this value by 512 to calculate the number of blocks.

02/26/90

Fix information:
Fixed in the 8.0 release of HP-UX on the Series 300 and 800.

02/26/90

KPR #: 5000496885   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: KERNEL

One-line description:
kernel parameter shmbrk should not affect size of kernel data structures

Problem:
In HP-UX 6.5 and 7.0 the shmbrk kernel parameter specifies the attach point for shmem segments and drastically effects kernel page table sizes since sparce virtual address spaces are not supported.

Cause:
This problem is due to the fundamental design of the system V VM system.

Temporary solution:
The user is aware of the two workarounds:
1) call malloc to allocate all dynamic memory before attaching shared memory
2) attach shared memory at a specific address in the address space.

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KPR #: 5000496885 **CONTINUED**

Fix information:
The fix is a new VM system that supports large sparce virtual address
spaces. This has been implemented for HP-UX release 8.0

KPR #: 5000499038   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: ACCOUNTING

One-line description:
HOG factor returns wrong value when CPU-MIN and REAL-MIN are zero

KPR #: 5000500520   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: FIND

One-line description:
"find" command fails to check context dependent files

Problem:
The submitter states that find(1) is not working properly when
used in a command of the form:

    find . -hidden -print | cpio -pdumvx some_direcory

Actually the problem is not in find(1), but in a special version
of cpio(1) that was left in /bin/cpio during the update to the 6.5
release in certain situations. The special version of cpio(1) does
not handle symbolic links or CDFs properly. It was used by the
/etc/update program and then later replaced with the real version of
cpio that works correctly. However, in certain situations (running
/etc/update a subsequent time and not loading the fileset containing
the real version of cpio), the special version of cpio(1) was left
in /bin.

The following messages:
    Cannot chown </users/garvey/tmp/studpid/cron+> (errno:2)
    Cannot chown </users/garvey/tmp/studpid/sockets/X11+> (errno:2)
    Cannot chown </users/garvey/tmp/studpid/sockets/grmd+> (errno:2)

are consistent with the behavior of the special cpio when it is used
to copy CDFs.

05/09/90

Cause:
The problem is not in find(1), but in a special version of cpio(1) that
was left in /bin/cpio during the update to the 6.5 release in certain
situations. The special version of cpio(1) does not handle symbolic
links or CDFs properly. It was used by the /etc/update program and
then later replaced with the real version of cpio that works correctly.
However, in certain situations (running /etc/update a subsequent time
and not loading the fileset containing the real version of cpio), the
special version of cpio(1) was left in /bin.

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KPR #: 5000500520 **CONTINUED**

The following messages:
    Cannot chown </users/garvey/tmp/studpid/cron+> (errno:2)
    Cannot chown </users/garvey/tmp/studpid/sockets/X11+> (errno:2)
    Cannot chown </users/garvey/tmp/studpid/sockets/grmd+> (errno:2)

are consistent with the behavior of the special cpio when it is used
to copy CDFs.

05/09/90

Temporary solution:
The "special" version of cpio(1) may be identified by using the
command:

    $ what /bin/cpio

If the "what" string indicates that it is an "update version", then
you have the broken version of cpio(1).

You may restore a good version by running /etc/update with your 6.5
release install or update media and re-loading the fileset that
contains /bin/cpio (the "CORE" fileset). This will restore the
correct, working version of cpio.

This problem does not exist in 7.0 and later systems, no workaround
is required if you are running a release later than 6.5.

05/09/90

Fix information:
Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

05/09/90

Signed off 11/06/90 in release B07.00

KPR #: 5000501296   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: LP

One-line description:
lp to a 2563 printer inserts extra form feeds

Problem:
When the "-n" option is specified with lp command and the text
file is longer than one page, the first copy is printed correctly but
the remaining copies have extra form-feeds in the first page.

Cause:
This is the result of the model not emitting a form-feed at the end of
each print job as the printer is reset. The reset escape sequence is
not interpreted by the lp driver and so the printer ejects a page (on
reset) but the driver retains its old line count. Thus when the last
page of a copy contains n lines, the page is ejected, the next copy is

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KPR #: 5000502997 **CONTINUED**

)

    and ctags is run on it:

        ctags test2

    then an incorrect tags file is produced:

        if   /^if (b)\$/
        x   /^x ()\$/

Note that neither of the files test1 or test2 contain syntactically correct C code.
==
The user noticed that ctags(1) would produce bogus results in certain circumstances. The circumstances they site are not correct. The root problem is not with 'if' statements per se, but with programs that do not conform to the standard format produced by cb(1).

All the examples given will work correctly if filtered through cb(1). Programs which stray from the cb(1) standard may confuse ctags(1) and produce incorrect results.

Cause:
The ctags(1) command make some fundamental assumptions about its input when it is C code. In particular, it assumes that the code has been filtered through (or at least follows the conventions of) cb(1).

The command assumes that a '}' character in column 1 implies the end of a function. Internally, the command keeps track of {} pairs. Code which appears like this:

```
function foo1()
{
    <code deleted>
}
```

is correct according to cb(1). If for example the code does not follow cb(1) standards and looks like this:

```
function foo2()
{
if (x) {
}
while (b) {
}
}
```

then the code assumes that the } on the fourth line ends function foo2. It then decides that 'while' is the name of the next function when it sees the { character on that line. It puts 'while' into the tags file. This is incorrect.

Note that there is no claim that this code will compile. In fact, it possible to write code that ctags(1) will handle correctly and cc(1)

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KPR #: 5000501296 **CONTINUED**

started, 66-n lines are printed, then the driver inserts a form-feed. Additional pages of the copy are printed correctly.

Temporary solution:
This problem may be worked around by disabling the automatic insertion of form-feed by the ciper lp driver. Add the -n option to the existing "slp -k" command in the /usr/spool/lp/interface/printer_name file for the printer as follows:

    slp -k -n 2>/dev/null

or, add "\014" i(form feed) to the reset sequence after the file is printed:

    echo "\014\033E\r\c"   # Reset Printer

Fix information:
This defect is fixed in the PCL[234] models (and their links) in the 8.0 release.

KPR #: 5000502997 Product: S300 GENERAL HPUX   98680B   06.05

Keywords: EX

One-line description:
CTAGS not processing if's properly

Problem:
The ctags program does not yield correct results for some blocks of C code which are not syntactically correct.

If the following code is in a file called test1:

```
x ()
{
if (a)
if (b)
}
```

and ctags is run on it:

    ctags test1

then the correct tags file is produced:

    x test1 /^x ()\$/

But if the following code is in a file called test2:

```
x ()
{
if (a)
}
if (b)
```

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KPR #: 5000502997 **CONTINUED**

will not, and vice versa.

If the function is passed through cb(1), and appears as:

```
function foo2()
{
    if (x) {
    }
    while (b) {
    }
}
```

then this will work since no } are in column 1 other than the closing curly bracket for the function.

A good workaround in the meantime is to use cb(1), or to make certain that the only } characters in column 1 actually are the closing brackets for functions.

Temporary solution:
The workaround for this problem is to use cb(1) on your code or to make certain that the only } characters in column 1 are the closing curly brackets of functions.

Fix information:
The fix will appear in Release 8.0.

KPR #: 5000503367   Product: S300 GENERAL HPUX   98680B   03.10

Keywords: STARBASE

One-line description:
sleep(2) followed by gopen(3) generates core dump

Problem:
sleep followed by a gopen can cause a core dump

Fix information:
The problem has been fixed in 7.0.

Signed off 02/05/90 in release B07.00

KPR #: 5000505990   Product: S300 GENERAL HPUX   98680B   05.05

Keywords: CU

One-line description:
cu(1) doesn't transmit cursor movement escape codes correctly in vi

KPR #: 5000508044   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: ACCOUNTING

One-line description:
garbage is printing after login names of 8 char long in accounting

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KPR #: 5000508044 **CONTINUED**

Problem:
The problem is that when prtacct was run, there was a garbage eighth character in the output. The defect was actually in acctmerg.

Cause:
The defect was caused by a bad printf format statement in acctmerg. This was fixed by a patch to 7.0 such that the name was truncated after eight characters.

Fix information:
Fixed in release 7.0.

It will also be available in Release 8.0.

Signed off 11/16/90 in release B07.00

KPR #: 5000508911   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: SH

One-line description:
sh(1) loses positional parameters when executing ". script params"

Problem:
The problem is that if a script is executed from the Bourne shell as:

        . script_name par1 par2 par3

so that another shell is not spawned the positional parameters are $1 , $2 , $3 (in this case) are lost.

Cause:

The Bourne shell does not setup the positional parameters before invoking the shell builtin command "." (DOT).

The fix is to setup the positional parameters before invoking "." command.

Fix information:

The fix will be in the 8.0 HP-UX release.

KPR #: 5000510636   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: DD

One-line description:
dd(1) will not read from a 9145 cartridge tape, but tar and tcio will

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KPR #: 5000511394   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: DOCUMENTATION

One-line description:
configuration ref. manual is not current nor complete

Problem:
Configuration Reference Manual, Part No. 98561-90020, is badly outdated. It needs to be updated and then kept current.

Fix information:
May be fixed in a future release.

KPR #: 5000517565   Product: S300 GENERAL HPUX   98680B   05.20

Keywords: STARBASE

One-line description:
"gclose" of "hpgl" driver fails with error about semaphore

Problem:
   The problem is that gclosing the hpgl driver more than once will generate an error about not being able to free up a semaphore.

Cause:
   This problem was caused by the first gopen freeing too many resources.

Fix information:
   This bug is fixed in release 7.03.

KPR #: 5000519504   Product: S300 GENERAL HPUX   98680B   06.02

Keywords: ED

One-line description:
ed(1) does not work on files larger than 128k

Problem:
Ed(1) can't edit the file larger than 128k bytes. But this is the specification for the current ed(1). See the man page of ed(1).

Cause:
Ed(1) reads the file to be edited into the temporary file. The contents of this temporary file are accessed by using 16-bit number. The eight bits of it represents the block number. The maximum number of block is limited to 255 and the size of block is 512 bytes so the limit of buffer size is about 128k bytes.

Temporary solution:
Use ex instead of ed.

Fix information:

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KPR #: 5000519504 **CONTINUED**

Will be fixed in the 8.0 release of HP-UX for the Series 300 and 800.

KPR #: 5000522896   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: FTIO

One-line description:
ftio does not work with 7979 tape drive

KPR #: 5000523977   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: MAIL   AXE

One-line description:
AXE lp scheduler tries to use mail(1) but mail is not in AXE

Problem:
AXE lp scheduler tries to use mail(1) even though mail(1) doesn't exist in AXE.

Cause:
Lpsched(1M) doesn't check if there's mail(1) or not. It should have done the checking before trying to invoke mail(1).

Fix information:
will be fixed on the release 8.0.

KPR #: 5000527226   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: CPIO

One-line description:
cpio(1) reads table of contents on only one side of optical media

KPR #: 5000527929   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: PWD

One-line description:
"pwd" command reports wrong path for symbolic link over "netunam" command

Problem:
   The submitter was reporting that, when they are on a diskless cnode and then cd to a directory across an RFA connection, the pwd command fails, and reports an error. This does not happen when the same situation is duplicated on a diskless server or standalone machine.

05/09/90

Cause:
This problem was caused by a kernel defect in the RFA code for diskless clients. The The is a known problem and was documented with the 6.5 release in the file /etc/newconfig/Update_info/to.6.5.

05/09/90

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KPR #: 5000527929 **CONTINUED**

Temporary solution:
The following explains some simple workarounds which are easily
implemented at the end-user's workstation:

1. If "csh(1)" is started on the local file system, and
   "cd" is then used to change to a remote directory,
   then the shell variable "cwd" WILL contain the correct
   directory. This is accessible by executing the
   command "echo $cwd".

2. If "ksh(1)" is started on the local file system, and
   "cd" is then used to change to a remote directory,
   then the shell variable "PWD" WILL contain the correct
   directory. This is accessible by executing the
   command "echo $PWD".

3. It is NOT possible using "sh" to determine the current
   directory (if the directory is remote), although using
   "ksh" instead of "sh" may solve the problem.

Fix information:
Fixed in the 7.0 release of HP-UX on the Series 300 and 800.

05/09/90

Signed off 11/06/90 in release B07.00

KPR #: 5000529883 Product: S300 GENERAL HPUX   98680B   06.05

Keywords: MKRS

One-line description:
modify mkrs to work with the optical disc

Problem:
Mkrs does not support the S6300.650A magneto-optic disk drive.

Cause:
None, this is an enhancement.

Temporary solution:
Tcio is only used during the cleanup procedure in mkrs after
the recovery system is complete. Although support for MO does
not exist in your mkrs, it may be the case that a good recovery
system was created on your MO disk.

Fix information:
Fixed in HP-UX release 8.0

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KPR #: 5000537837 Product: S300 GENERAL HPUX   98680B   06.05

Keywords: VI

One-line description:
vi(1) does not display correct format for information when using telnet

KPR #: 5000538983 Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
C1 internal error in "xxx": unknown optype passed to find().

Problem:
The problem occurred because of a function pointer cast on a constant.
Insufficient information was passed from the first pass of the compiler
to the global optimizer, thereby confusing its symbol table handler.
The global optimizer handles most calls to functions by first looking up
the function in its symbol table. Since there was no symbol in the
table for this particular function, the global optimizer crashed.

Cause:
The global optimizer did not account for anonymous function references
which can occur when a constant is cast to be a function pointer.

Fix information:
Fixed for release 7.40.

KPR #: 5000538991 Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
C compiler error: register allocation error

Problem:
The S300 7.0 compiler fails to generate code for the statement:

```
*(((char *)(0x700)) + strlen (((char *)(0x700))) + 1) = '\0';
```

Cause:
This problem is caused by the C compiler underestimating how many
registers it would need to generate code for the expression:

```
*(((char *)(0x700)) + strlen (((char *)(0x700))) + 1) = '\0';
```

If the compiler thinks it has enough registers but in reality it
does not it will abort without generating code.

Fix information:
This problem will be fixed in the S300 7.40 Compiler release.

KPR #: 5000539379 Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
Using pg "\n" preceded by "\0" doesn't produce new line.

Problem:
An attempt to use pg on files containing the NULL character was
unsuccessful. Since pg(1) is designed for use only on text files (which

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KPR #: 500542357 **CONTINUED**

Fix information:
Fixed in HP-UX 7.0 release.

Signed off 11/01/90 in release B07.00

KPR #: 500547547   Product: S300 GENERAL HPUX   98680B   06.05

Keywords: LP

One-line description:
Permissions on lp(1) are incorrect.

Problem:
lp allowed users to print files the could not read

Cause:
lp is setuid for several reasons, and the code was not careful about
setting the uid back for file opens

Temporary solution:
Make lp setuid lp on your system, or update to 7.0

Fix information:
The code as been signinficantly modified to allow it to safely run
setuid root. Fixed in release 7.0.

Signed off 11/06/90 in release B07.00

KPR #: 500579755   Product: S300 GENERAL HPUX   98680B   00.00

Keywords: C

One-line description:
When files are compiled with -g, there is a HUGE expansion in size.

Problem:
See .submitter file.

Cause:
See .problem file.

Temporary solution:
The workaround in this case is to re-structure the include file scheme,
and include things that are only needed, as opposed to always including
everything, whether it is needed or not.

Fix information:
Fixed in release 7.40.

Signed off 11/01/90 in release B07.40

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KPR #: 500539379 **CONTINUED**

cannot contain NULL), this behavior is not a defect. Other programs
suitable for viewing such files, such as vis, should be used as an
intervening filter as in:

     prog | vis | pg

Temporary solution:
Use vis(1) to convert non-text characters before passing to pg. For
example:

     prog | vis | pg

Fix information:
A documentation change will be made in the 8.0 release.

KPR #: 500542357   Product: S300 GENERAL HPUX   98680B   06.05

One-line description:
different results with -O

Problem:
Common subexpression elimination incorrectly deduced that the
following expressions were CSEs and thus the following program is
incorrectly optimized:

When I made a.out using 'cc test.c' and 'cc -O test.c', I couldn't
get same result from a.out.
/*** test.c program ******/
unsigned char c[] ={0,1,2,3};   /* result from cc test.c is
                                      0203001 */

```
main(){
   sub(c);                 /* result from cc -O is 0201001 */
   return(0);
}

sub(buf)
unsigned char buf[];
{
   unsigned long l;
   int prt;
   prt = 0;
   l = (unsigned long)(buf[ptr] << 8) + buf[ptr + 1];
   ptr += 2;
   l += (unsigned long)(buf[ptr] << 8) + buf[ptr + 1]) << 16;
   prt += 2;
   printf("4 byte data is %0x8lx\n",1);
}
```

Cause:
Common Subexpression Elimination was done incorrectly in this case
-- array references not handled properly.

Temporary solution:
Compile with +O1 or no optimization -- avoid -O or +O2.

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KPR #: 5000581595   Product: S300 GENERAL HPUX   98680B   01.00

Keywords: C

One-line description:
ANSI C: integral constant expression expected on enum range.

Problem:
The problem is that in the ANSI compiler, some enum constant names within a structure definition were accidentally looked up in the wrong name space, resulting in syntax errors.

Cause:
Cause is coding defect in compiler.

Temporary solution:
Replace enum constants with #define constants.

Fix information:
Fixed for A.07.40 and B.08.00

KPR #: 1650063933   Product: SERIES 300 GKS   98672B   06.50

One-line description:
GSPKID returns wrong value

Problem:

GKS fails to set the PICKID attribute in a copied segment. A pick request to a copied segment returns the last value set by thei gspkid function.

Cause:
The cause of GKS not properly propagating the PICKID attribute when copying a segment into a new segment is unknown due to the bug being fixed and the subsequent documentation either lost or not completed.

Temporary solution:
No workaround is available.

Fix information:
Fixed in the 7.0 relese of HPGKS for the Series [300,800].

KPR #: 1650086041   Product: SERIES 300 GKS   98672B   06.50

Keywords: GKS   STARBASE

One-line description:
gsfais() & gfa() don't draw right and bottom edges on x11

KPR #: 4700667626   Product: SNA3270 300   36590A   03.10

One-line description:
SA msg queues should be created with permissions 660, not 666

Problem:
If the standalone SNA3270 message queue is created with permission
666, everybody can read or write to it, not just users in the
sna group. That might be a security loop hole.

Fix information:

The Standalone sna3270 messages queue is now created with the
permissions 660 instead 666.

Signed off 06/30/89 in release A03.20

KPR #: 4700667634   Product: SNA3270 300   36590A   03.10

One-line description:
sa_sna3270 spins if given a remotesplit hostname (hpindlb:ibm)

Problem:
The hostname hpindlb:ibm is the last entry in the file
/etc/sna/hostlist. When standalone SNA3270 is invoked
with option -h hpindlb:ibm, SNA3270 spins and hangs there,
trying to check if this hostname exists in file
/etc/sna/hostlist.

Fix information:

When sa_sna3270 or sa_sna3770 looks for a hostname, it will browse
through each line of the /etc/sna/hostlist file to check if that
hostname exists.
The format of the hostfile is:
  <hostname>/<link device file> <link configuration file>
After checking the hostname, the PS will skip to the end of the
line and then go to the next line. If the end-of-line is missing,
the PS will spin. Therefore, the PS not only needs to check for
end-of-line, it also checks for end-of-file.
A code change is made to the routine hostname_ipc() (msgsps.c) to
fix this defect.

Signed off 07/06/89 in release A03.20

KPR #: 5000443366   Product: SNA3270 300   36590A   02.10

One-line description:
SNA3270 causes the 800 to lock up and hang.

Problem:
NTI operated this product in the supported configuration and caused
the system to hang. This was independent of the Genesis code that
they normally operate. A dump was forced and the current process
was the SNA3270 process. On analysis of the dump by the kernel lab,
it was discovered that the failure was occuring in the select system
call which is called by the SNA3270 process. This call was hanging

---

KPR #: 5000443366   **CONTINUED**

the system because it was operating at a real time priority less than
any process that could preempt it. Neither netisr nor the timer
satisfy the conditions necessary for this system call to complete,
and therefore, the system deadlocked. The kernel people report that
all network routines must have a higher priority than netise or a
deadlock situation can always occur. The customer is no longer
running the product in real time and is no longer having a problem.
The lab will fix the problem in the 5.0 release of the product.
This has been reported to the customer and he is satisfied with our
current actions.

Signed off 01/30/90 in release A07.00

KPR #: 4700667600 **CONTINUED**

-4026   Couuld not open snagateways file

The help messages in the following files are changed:

File:	Old help message	New help message
psmain.c	sna1001	sna4022
	sna2008	sna4023
crtio.c	sna2015	sna4024
nsipcps.c	sna2041	sna4026
printer.c	sna2015	sna4024
ps_phys.c	sna2017	sna4025

The contents of the old help messages and the new help messages are basically the same. The numbers are modified to accommodate the new help facility.

Signed off 07/06/89 in release A03.20

- SNA3270 300 -

KPR #: 1650043760   Product: SNA3270 300   36591A   03.10

One-line description:
Power off LU, send LUSTAT. Power on lu, semd Notify ON. This is wrong.

Problem:
The customer is using SNA3270 to logon to an application
that does not unbind the session when you power off the terminal
while in LU-LU session. Normaly when you power off the
terminal while in LU-LU session, we send an LUSTAT and the
application sends an UNBIND. At the customer site, the problem
is that when we stop the presentation service SNA3270 while in
LU-LU session, we just send an LUSTAT (that's ok). However,
as we start up SNA3270 again on the same LU, (from the IBM
point of view, this lu is still in LU-LU session), we send a
NOTIFY ON and that's not correct since we should send an LUSTAT.

Cause:
When sna3270 is powered off during a LU-LU session,
the snalink sends a LUSTAT 0831 to signal the host
that the device is powered down.
At Peugeot, the host +Rsp to that LUSTAT but does not
send an UNBIND. Instead, it sends a BID to the link.
The link accepts this BID, which is incorrect, and
put the device into the Receive state. Therefore,
as another sna3270 starts up on the same LU, it
cannot send a LUSTAT 082B to re-establish the
LU-LU session.

Fix information:
A code change is made in the nuc code to reject the
host BID after the device is powered down.

Signed off 03/29/89 in release A03.20

KPR #: 4700667600   Product: SNA3270 300   36591A   03.11

One-line description:
SNA3270 uses some help messages reserved for the Nuc.

Problem:
Each product in the SNA family should have their own range
of error messages, since for Gateway configuration, the
SNALink could be on one machine, while a presentation service
session (SNA3270, SNA3770, LU6.2, SNA3179G ...) could be
on a different machine. The error message catalog of each
product should stay on the same machine that the product
runs.

Fix information:

The following new help messages are added to the sna3270 help file:

-4022   Fork failed
-4023   Illegal option(s)
-4024   Calling process now allowed to run sna3270
-4025   Incompatible interface level

- SNA3270 300 -

KPR #: 1650107045   Product: SNA3770 300   98188A   01.01

One-line description:
Enhancement: Enabling padding with trailing blanks, as real device does.

Signed off 05/24/90 in release A07.01

KPR #: 1650091587   Product: SNA3770 300   98184A   01.01

One-line description:
AS SOON AS MON3770 SEES TRN IN A PUNCH FILE, IT STOPS INTERPRETING DATA

Signed off 11/30/89 in release A07.00

Duplicate Service Requests: 1650091504 1650091074

KPR #: 4700714915   Product: SNA3770 300   98184A   01.00

One-line description:
JES3 receives Invalid FM header from host with recommended logmode

Signed off 03/31/89 in release A01.01

KPR #: 4700667568   **CONTINUED**

There are 2 problems to this defect report, after the Nuc is killed -9:

(1) If the user starts up SNA3270, a timeout message is issued but it is not meaningful enough. A code change is make to read_aif() in ps_phys.c such that the error message reads:
"Timeout while waiting for connection to host '<hostname>'"

(2) When you run snamg, a request for status message is sent to the Nuc. As the Nuc has died abnormally, that message will never get replied. Upon detecting this, the snamg command should issue a timeout error message.

To achieve that, an alarm is set before the request for status is sent to the Nuc. After 20 secs, if Nuc does not answer to that request, snamg will put out an error message.

The code change is is made to check_stat() in cmd/manage/snamg.c.

One small footnote: Do NOT 'kill -9' the Nuc unless you have no alternatives.

Signed off 12/14/88 in release A03.11

KPR #: 4700734566   Product: SNALINK 300   36592A   03.20

One-line description:
if LU name is 8 chars, field formatting messed up in snarpt

Fix information:

snarpt use tab to go from field to field. Therefore, if the luname is 8 character long, it is right at the tab field mark and moves the status field over. This was brought up at the snarpt code review and fix was made to file snarpt.c such that all tabs were omitted and replaced by fields.

Also, snarpt no longer displays abbreviations such "w/", "rcvd" ...

Signed off 02/07/90 in release A07.00

KPR #: 5000520528   Product: SNALINK 300   36592A   03.21

One-line description:
system panic when SNALink is installed and PSIDAD is run

Fix information:
The system panic that results from running PSIDAD is due to a problem in the PSI driver shipped with HP-UX 3.1; the driver has been corrected for HP-UX 7.0 so this problem should no longer occur.

- SNALINK 300 -

KPR #: 4700420307   Product: SNALINK 300   36592A   00.00

One-line description:
When only 1 lu is defined in the config file, X-f occurs when a key hit

Signed off 12/21/87 in release A03.10

KPR #: 4700474577   Product: SNALINK 300   36592A   00.00

One-line description:
Session, file transfer, and character drop problems with SNALINK.

Cause:
1) The last character of the file is a $ and it is intermittantly dropped off in ispf screen because the screen painting routine did not update the screen appropriately.

2) When SNA3270 tried to establish a session with the host, it hang when user tried to logon to TSO. This problem happens because there is a race problem at SDLC level on the SNALink product.

3) The SNA3270 hang during file transfer. This problem happens because there is a race problem at the Nuclues/PS interface on the SNALink product.

Fix information:
1) After review the code of SNA3270, there is a defect found in the paint routine which is uses to paint the screen with the data receive from host. This routine did not function properly and cause some of the characters being dropped off.

2) There is a race problem in SNALink at the SDLC level. The Nuclues did not know there is data which need to be send to the PS on the queue. The Nuclues enters the block mode to wait for the data from PS; meanwhile, the PS waits for data from Nuclues. Deadlock occurs and causes the PS hang. To re fix the problem, before Nuclues enters the block mode, check the flag which is set when there is data on the queue. If the flag is set, Nuclues will not block on IPC queue, and return to the scheduler to process the data.

3) There is a race problem in SNALink at the Nuclues/PS IPC interface. Set the alarm before Nuclues blocks on IPC queue. When the alarm goes off, it will get the Nuclues out of the block mode. Nuclues will then return to the scheduler to see if there is any work need to be done.

Signed off 12/21/87 in release A03.10

KPR #: 4700667568   Product: SNALINK 300   36592A   03.10

One-line description:
if SA nucleus is dead, error messages aren't very friendly

Fix information:

- SNALINK 300 -

KPR #: 500520528 **CONTINUED**

Signed off 04/05/90 in release A07.00

KPR #: 500542688   Product: SNALINK 300   36592A   03.21

One-line description:
Snanuc fails when the host sends ua an second snrm.

Signed off 04/10/90 in release A07.01

Duplicate Service Requests: 5000549196

KPR #: 470419606 Product: SNALINK 300/GW   36593A   00.00

One-line description:
Request to allow more valid PSERVICE parameters in logemode table.

Signed off 12/21/87 in release A03.10

KPR #: 470067519   Product: SNALINK 300/GW   36593A   03.10

One-line description:
ALPHA-SITE: Mod-2 BIND image rejected by SNALink/SNA3179G.

Fix information:

Upon receiving a BIND request from the Host, SNALink validates the BIND image on behalf of the PS (e.g SNA3179G). As we recently discovered, the SNA3179G PS must support both Mod-2 and Mod-3 bind requests.

The following rules describe the SNALink validation for the PSERVIC bind parameter, required for SNA3179G:

Byte	Meaning	Snanuc field	Validation required
1	LU profile	psprof	Reject if != 0x02
2	Queriable Device	psusg[0]	Not checked
3	Reserved	psusg[1]	Not checked
4	Reserved	psusg[2]	Not checked
5	Reserved	psusg[3]	Not checked
6	Reserved	psusg[4]	Not checked
7	Primary rows	psusg[5]	(See below)
8	Primary columns	psusg[6]	(See below)
9	Alternate rows	psusg[7]	(See below)
10	Alternate columns	psusg[8]	(See below)
11	Screen size type	psusg[9]	Reject if not one of the following: 0x00,0x02,0x7e,0x7f
12	Reserved	psusg[10]	Not checked

Screen size valication:

1. If byte 11 is 0x00 or 0x02, then bytes 7-10 are not checked, but the primary and alternate rows are set to 0x18, and the primary and alternate columns are set to 0x50.

2. If byte 11 is 0x7e then:
   0x01 <= byte 7 <= 0x20
   byte 8 = 0x50
   byte 9 = byte 7   (This byte is not validated)
   byte 10 = byte 8 (This byte is not validated)

3. If byte 11 is 0x7f then:
   0x01 <= byte 7 <= 0x20
   0x01 <= byte 9 <= 0x20
   byte 8 = byte 10 = 0x50

Given that the Host can bind with a variety of PSERVIC options,

KPR #: 4700667576 **CONTINUED**

are rejected with X-f and X-f if cleared by the RESET key to
blanks. LUWRITE attempt and all its subsequent results will fail
since hitting ENTER, an AID key, will be rejected with X-f.

The code change works for COMM 504 check processing for both
SSCP-LU sessions and LU-LU sessions.

Signed off 12/14/88 in release A03.11

KPR #: 4700667584   Product: SNALINK 300/GW   36593A   03.10

One-line description:
Incorrect generation display codes when COMM 504 occurs in LU-LU session

Fix information:

When a COMM 504 check occurs, the Nuc performs the following:

* changes the session state to UNOWNED,

* clears the System Area fields (display code CLRDONT),

* sends the UNOWN status indicator to the PS (display code UNOWN),

* sends the COMM 504 display code.

By sending the display code UNOWN before COMM 504, the System Area
fields will be cleared, and thus, correct.

Signed off 12/14/88 in release A03.11

KPR #: 4700667618   Product: SNALINK 300/GW   36593A   03.10

One-line description:
Incorrect msg "sna3270 for LU X is being ordered to terminate."

Fix information:

The LU type 'sna3270' was hard-coded in the routine manage_fn(). Now
a switch statement is added to print out the appropriate type for
each LU in the manager kill message.

Signed off 12/14/88 in release A03.11

KPR #: 4700674499   Product: SNALINK 300/GW   36593A   03.10

One-line description:
snalink has snamchk226: :mchk_end: code:901 file:/../queue/dqeqmgr.c

Temporary solution:

CCC uses a line with the NSCONTINUE option. With this
option, when the host goes down, they keep the NCP up and

                                - SNALINK 300/GW -

KPR #: 4700667519 **CONTINUED**

SNA3179G must be notified of the BIND image so that it can set
its primary and alternate partition sizes according to the BIND
specification. Additionally, as SNA3179G requires, a notification
of an UNBIND request
(from the Host) also be sent from SNALink so that it can reset the
partition sizes to their hardware default sizes when the LU-LU
session is unbound.

To provide these notifications, a new "LU operation" is defined
and packaged in the existing luib message format. The luib
message would then make use of the following fields:

    luop   = SESCRL   Session control LU operation

    luopmod = BIND   For BIND notification
              UNBIND   For UNBIND notification

    request = pointer to an MU containining the BIND image.

Since this is a "notification" message, SNALink need not wait for
a response to this message.

The following files have been changed to accommodate this defect:

```
File                 Routine
----                 -------
h/cmscrstr.h

nuc/nuc/snasched.c   snasched()
                     dispr()
                     add sndsesctrlmu()

nuc/nuc/nuksutil.c   toout()

nuc/csc/lusvcmgr.c   lussrcv()
                     vldtbind()

nuc/misc/tlfumc.c    logbindrej()
```

Signed off 12/14/88 in release A03.11

KPR #: 4700667576   Product: SNALINK 300/GW   36593A   03.10

One-line description:
Incorrect processing of COMM504 when in an SSCP-LU session.

Fix information:
A code change is made to comchk() in nuc/misc/comchk() such that
when SNAlink determines that the communication line is down, it
generates a COMM 504 display code, sends it to the PS's, and sets
the i_toggle of all luib's to UNOWNED.

When the session is UNOWNED, all keystrokes (data and AID keys)

                                - SNALINK 300/GW -

KPR #: 4000091660   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
Typing very fast may cause characters to be lost or garble command line

Problem:
SoftPC was losing track of characters

Cause:
Most likely cause is that the character buffer was being overflowed before it could be checked by SoftPC.

Fix information:
This problem has been retested on SoftPC 2.0 and no longer exists.

KPR #: 4000091678   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
function keys do not work with evelys word program

Problem:
Function keys broken

Fix information:
This will need to be fixed at the application level, i.e., I think this program requires hardware access to the function keys. We will need to investigate it.

KPR #: 4000091728   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
cannot connect an HP-IB plotter to a com port

Problem:

HP 9000/360, HPUX 6.2, X11 A.00.01 SoftPC V1.3f (final) X11 version
HP 7475A Plotter connected to low-speed HP-IB.

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

SEVERE - I cannot connect a HP-IB plotter to a COM PORT. After assigning a COM port to the device file, the COM/LPT setup panel disappears but SoftPC locks up. The portion of the screen where the COM/LPT menu had existed was blank, and SoftPC would not accept any keyboard or mouse input. If I kill the SoftPC process and start a new status is completely blank (not even the SoftPC logo was there.) I had to remove the offending lines from my .SoftPC file to get SoftPC running again.

KPR #: 4700674499

the line active. However, when the host comes backup, it will run a cold start, resetting everything, including the line which has been kept active. In doing that, the host floods SNALink with so many deactivation and activation frames, all expedited. SNALink dies, because it runs out of dispatching blocks used to store all these frames.

There is a workaround : shutdown the line properly when bringing the host down. The lab is investigating a solution to this problem.

Fix information:

The number of DQE's (dispatching structures) is increased as (NUMDEVS * 2), where NUMDEVS is 64. By doing this, SNALink is able to handle all the activations and deactivations frames that the host sends it after a host IPL.

Signed off 12/14/88 in release A03.11

KPR #: 4700733758   Product: SNALINK 300/GW   36593A   03.20

One-line description:
SNALink install script fails on AXE systems which lack /usr/bin/id

Fix information:
To allow the script to function properly on both regular and AXE HP 9000 / S300 systems the use of /usr/bin/id has been replaced by /usr/bin/whoami. The program /usr/bin/whoami is automatically installed on all S300 systems; consequently, the install script will function properly on these systems.

Signed off 02/07/90 in release A03.21

KPR #: 400091728 **CONTINUED**

The device file had the following attributes:
   crw-rw-rs 1 root other 21 0x070400 /dev/plt

SPECIAL NOTE: If I assign the plotter to a LPT port, SoftPC accepts it without complaints. However, I did not try to plot any data.

Cause:
The problem was caused by SoftPC 1.3 and has been corrected in SoftPC 2.0

Fix information:
The problem was fixed by a code change in SoftPC 2.0.
Caused by trying to treat /dev/<dev> as a serial device,even though its an HPIB device. Added extra call to 'isatty()' as an extra check, HPIB devices are treated as files now.

KPR #: 400091736   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
"MS Learning DOS" hangs softpc just after start up,SCR160

Problem:
S800 running SoftPC on X11, and on a 2393 terminal and on s360 running X11 and on 2393 terminal.

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

MS Learning DOS

We tried to run Microsoft's"Learning DOS" package. The program starts up but softpc will hang just after the introduction. This problem is easy to reproduce and is very consistent.

The problem is with the "Lessons for Systems" part and not with the "DOS Quick Reference" part.

Cause:
The problem was caused by some incompatibility in SoftPC.

Fix information:
This was fixed in the SoftPC 2.0B release.

KPR #: 400091926   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
caps lock key must be pushed twice to change state.

Problem:
CONFIGURATION (Includes hardware, options,ROMS, binaries and peripherals. Should be minimum configuration on which problems occurs.)

          - SOFT PC FOR 9000/300 -

KPR #: 400091926 **CONTINUED**

s800 running X11, s360 running X11

PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

This seems to be an x11 bug.
The caps lock key must be pushed twice to change state.

Cause:
There was a problem with the X window/ SoftPC interface.

Fix information:
This was fixed with SoftPC 2.0 B.

KPR #: 400091934   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
sidekick does not work in CGA mode

Problem:
Sidekick broken

Cause:
This was caused by a problem with color accessing.

Fix information:
This problem was corrected by SoftPC 2.0.

KPR #: 400091983   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
SoftPC Comm ports do not have eight bit parity capabilities

Problem:
Comm ports broken

Cause:
Only seven bits were fully supported with comm ports.

Fix information:
This was fixed with SoftPC 2.0.

KPR #: 400091991   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
soft PC does not assign colors correctly,SCR254

          - SOFT PC FOR 9000/300 -

KPR #: 400092023 **CONTINUED**

s300 workstation and v-11-88 release)
s800 system with SoftPC running over lan to s350 workstation
(Donna Griffiths verified)

13: PROBLEM DESCRIPTION (Include environment, symptoms, what you were
trying to do, what went wrong, and other helpful information.)

Word Perfect 5.0

Word Perfect has a stand alone program "GRAAPAHCNV>EXE' which converts
various graphics files, ie: HPGl,TIFF, PCX etc. to Word Perfect
format (*.WPG). This program will lock up SOFTPC to the extent it
has to be rebooted.

The HPGl files I tried can be incorporated into a document when
running WP'EXE. The translation gets done properly.

14: DOCUMENTATION (List supporting documentation included with this
report.)

None.

Cause:
There is an incompatibility in the SoftPC emulation.

Temporary solution:
The user may use the built in graphics conversion facilities of
WordPerfect to get around this problem.

Fix information:
This problem fixed with SoftPC 2.0B final release.

KPR #: 400092049   Product: SOFT PC FOR 9000/300 98870A   00.00

Keywords: SOFT PC

One-line description:
Color Graphics refresh is slow on Falcon game,SCR143.

Problem:
Color graphics refresh is slow on Falcon game, SCR143.

Fix information:
Fixed in release 2.00.

Signed off 10/11/89 in release A02.00

KPR #: 400092056   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
setup panel highlights random characters,SCR214

                                         - SOFT PC FOR 9000/300 -

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KPR #: 400091991 **CONTINUED**

Problem:
There was a problem in the X color assignments.

Cause:
There were errors in the X color assignments.

Fix information:
This was fixed in SoftPC 2.0.

KPR #: 400092015   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
copying from com1 to a file doesn't work correctly,SCR246

Problem:
122) CONFIGURATION (Includes hardware, options, ROMs, binaries and
peripherals. Should be minimum configuration on which problem occurs.)

SoftPC V1.3 (final Nov-11-88 release)

13) PROBLEM DESCRIPTION (Include enviroment, symptoms, what you were
trying to do, what went wrong, and other helpful information.)

DEGRADE - Running "copy com1 file" to read input from a terminal
and copy it to a file does not work properly. After entering
input from the terminal and hitting ctl-z, I noticed the file
was over 50,000 bytes long. I didn't type that much! It appears
like many garbage characters are being stuffed into the file.
(I did not test this on an XT.)

To duplicate:

1. Connect terminal to s300 or s800 machine
2. Assign the tty file to a COM port
3. Run MODE to set communications link
4. Run COPY COM1 FILE

Cause:
There is an incompatibility in the comm. port emulation.

Fix information:
This was fixed in the SoftPC 2.0B release.

KPR #: 400092023   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
word perfect graphics conversion locks up softpc, graphcnv.exe,SCR251

Problem:
12) CONFIGURATION (Includes hardware, options, ROMs, binaries and
peripherals. Should be minimum configuration on which problem occurs.)

                                         - SOFT PC FOR 9000/300 -

KPR #: 4000092098   **CONTINUED**

Problem:
12) CONFIGURATION (Includes hardware, options, ROMs, binaries and
peripherals.   Should be minimum configuration on which problem occurs.)
SoftPC running on s350 workstation using an 2397a terminal
SoftPC running on an s835 with a 2397 terminal

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were
trying to do, what went wrong, and other helpful information.)

All the legal termcap ID's shown by "untic"ing the 2393 description
file for all spc supported terminals need to be supported for term
device drivers. Currently, this is a problem and hp2393a and hp2393a an
hp2393A are unrecognized by SoftPC. We have gotten around this by
modifying the initialization (dumbpc/spcterm) script. It should be
fixed in the code for next versions. This has been officially
requested in HP/SPC Comm #59.

14)DOCUMENTATION (List supporting documentatiton included with this
report.) None.

Cause:
The terminal startup script did not contain all valid names for the
supported terminals.

Fix information:
The script has now been recognized as a necessity for SoftPC
terminal startup due to problems setting up the terminal
configurations. This problem has been fixed for SoftPC 2.0.

KPR #: 4000092106   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
garbage appears on screen when using model 700/44 terminal,SCR222

Problem:
12) CONFIGURATION (Includes hardware, options, ROMs, binaries and
peripherals.   Should be minimum configuration on which problem occurs.)
SoftPC running on s350 workstation using an 70044 terminal

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were
trying to do, what went wrong, and other helpful information.)

When exiting SoftPC on the 70044 terminal garbage characters are
echoed to the screen. The prompt must be returned before the next
command is typed.

14) DOCUMENTATION (List supporting documentation included with this
report.) None.

Cause:
There are a few garbage characters left after SoftPC exits the

                        - SOFT PC FOR 9000/300 -

KPR #: 4000092056   **CONTINUED**

Problem:
12) CONFIGURATION (Includes hardwarek, options, ROMs, binaries and
peripherals.   Should be minimum configuration on which problem occurs.)
HP 9000/360, HP-UCX 6.2, X11 A00.01, SoftPC V1.3f (final) x11 version

13) PROBLEM DESCRIPTION (Includes hadware, symptoms, what you were
trying to do, what went wrong, and other helpful information.)

MINIMAL - When using the COM/LPT setup panel, random text edit entries
get highlighted.

14) DOCUMENTATION (List supporting documentation included with this
report.)

Cause:
The graphics interface has a problem with highlighting.

Fix information:
This is fixed in SoftPC 2.0.

KPR #: 4000092072   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
full ibm character set is not correctly implemented

Problem:
12) CONFIGURATION (Includes hardware, options, ROMs, binaries and
peripherals.   Should be minimum configuration on which problem occurs.)
SoftPC running on s350 workstation.

13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were
trying to do, what went wrong, and other helpful information.)

While checking the DOS NLS support I found that some international
characters were not mapped correctly. Upon further investigation I
found three other characters that were not exactly mapped to the
IBM PC character set. I used the program printc.exe to print out
the entire character set aned examine it. This program runs under
DOS and if necessary, I will e-mail it to Insignia.

Cause:
Characters were not mapped properly.

Fix information:
This was fixed in SoftPC 2.0.

KPR #: 4000092098   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
all legal termcap ID's for the 2393 terminal are not recognized by Softp

                        - SOFT PC FOR 9000/300 -

KPR #: 400009 2148   **CONTINUED**

by examining SK ascii tables. The problem arises due to the lack of sufficient double line line drawing characters. The characters that are mismapped are IBM PC:0xc7, 0xbd and 0cd1 these are easily remapped to the thick line equivalents giving a more consistent "look" to the result.

14) DOCUMENTATION (List supsorting documentation included with this report.)None.

Cause:
Some characters are mismapped.

Fix information:
This is fixed in SoftPC 2.0.

KPR #: 400009 2205   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
Cannot connect HPIB printer to comm port properly,SCR220

Problem:
CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)
HP 9000/360 HPUX 6.2 X11 A.00.01, SoftPC V1.3f (final) x11 version
HP 7475A Plotter connected to low-speed HPIB.
PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong and other helpful information.)

SEVERE - I cannot connect a HPIB plotter to a COM port. After assigning a COM port to the device file, the COM/LPT setup panel disappears but SoftPC locks up. The portion of the screen where the COM/LPT menu had existed was blank, and SoftPC would not accept any keyboard or mouse input. If I kill the SoftPC process and start a new one, DOS boots ok but again SoftPC locks up. Also, the right-hand status is completely blank (not even the SoftPC logo was there.) I had to remove the offending lines from my SoftPC file to get SoftPC running again.

The device file had the following attributes:
crw-rw-rw 1 root other 21 0x070400 /dev/plt

SPECIAL NOTE: If I assign the plotter to a LPT port, SoftPC accepts it without any complaints. However, I did not try to plot any data.

Cause:
The printer could not be attached, it seems to be a problem with the way SoftPC checks device permissions.

Fix information:
Fixed with SoftPC 2.0.

                              - SOFT PC FOR 9000/300 -

KPR #: 400009 2106 **CONTINUED**

700/44 terminal emulation.

Fix information:
The SoftPC exit was modified to include a few carriage returns so that the garbage would not be seen by the user. This is fixed for SoftPC 2.0.

KPR #: 400009 2130   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
cursor doesn't track properly when running "Word Perfect",SCR250

Problem:
12) CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)

< A 350 running x11 with 16AMeg memory.
13) PROBLEM DESCRIPTION (Include environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)

>There is a cursor tracking problem when running WordPerfect version 5.0
>under SoftPC. If,while editing a document,you hold down the arrow key
>the cursor "warps" to its next destination invisibly. This makes it
>*very* difficult to reposition the cursor within a line. Somehow we
>need to make it work like the edit widget's cursor under hpwm in x11.
>(This problem may be tied to the repeat key rate.)

14)DOCUMENTATION (List supporting documentaiton included with this report.)
None.

Cause:
The cursor tracking is poor.

Fix information:
This is fixed in SoftPC 2.0.

KPR #: 400009 2148   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
line drawing characters aren't mapped correctly

Problem:
12)CONFIGURATION (Includes hardware, options, ROMs, binaries and peripherals. Should be minimum configuration on which problem occurs.)
SoftPC running on s350 workstation using an 2397a terminal
SoftPC running on s835 with 2397 terminal

13)PROBLEM DESCRIPTION (Includes environment, symptoms, what you were trying to do, what went wrong, and other helpful information.)
The line drawing graphics characters are mismapped as can be seen

                              - SOFT PC FOR 9000/300 -

KPR #: 4000093690 **CONTINUED**

Reassigning devices (especially when running an application) will lock up SoftPC. SoftPC needs to be restarted automatically as the menu claims.

Cause:
This is probably caused by a problem with the device assignment.

Fix information:
The problem has been fixed in SoftPC 2.0 final release.

KPR #: 4000093708 Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
/usr/bin/dosls incorrectly specifies volume labels as filenames

Problem:
The problem was that the dosls/dosll command could not differentiate between the volume labels and filenames.

Cause:
There was no code in the dosls/dosll command implementation to distinguish between volume labels and filenames.

Fix information:
The fix was to add a module to the dosls/dosll command to distinguish volume labels and filenames.

Signed off 01/29/90 in release A02.00

KPR #: 4000093757 Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: DOCUMENTATION

One-line description:
using softpc p 3-4 implies all home directories in /users.

Problem:
The documentation was misunderstood in the SoftPC 1.3 manual.

Temporary solution:
The user may call support to clarify the issue.

Fix information:
The documentation has been expanded and clarified for SoftPC 2.0.

KPR #: 4000093765 Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: DOCUMENTATION

One-line description:
using slave pc section p.4-21 configuration info inadequate.

- SOFT PC FOR 9000/300 -

KPR #: 4000093666 Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
softpc kills the bell and autorepear in x11

Problem:
Bell, Autorepeat dead

Cause:
This was caused by an interference with the environment.

Temporary solution:
The workaround is to reset all environment variables after running SoftPC.

Fix information:
This will have to be fixed in code.

Duplicate Service Requests: 4000092080

KPR #: 4000093674 Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
softpc will not work properly with some types of reparenting windowmngr

Problem:
SoftPC does not conform to ICCM and will not work correctly with reparenting window managers. In particular, submenus text edit fields (like Setup Disk Drives) do not permit input to be typed.

Cause:
SoftPC was developed using UWM and so it was not designed to work with reparenting window managers like HPWM.

Temporary solution:
The workaround is to isolate the SoftPC editing box on the screen. Move every other window out of its way so that none overlap and then you will be able to edit the configuration using the user interface. (it will let you write into the interface boxes then)

Fix information:
This was fixed with the final SoftPC 2.0B release.

KPR #: 4000093690 Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
reassigning devices will lock up soft pc

Problem:

- SOFT PC FOR 9000/300 -

KPR #: 400093765 **CONTINUED**

Problem:
"Using SLAVEPC" section of chapter 4 (page 4-21) is inadequate for proper configuration of SlavePC.

Temporary solution:
The user may call support for more information.

Fix information:
The documentation has been updated and expanded for SoftPC 2.0.

KPR #: 400093781   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
pages A-2 and A-4 "using soft pc: should not refer to the DOS coprocssor

Problem:
"Using SoftPC" manual pages A-2 and A-4 refer to the DOS coprocessor.

Temporary solution:
The user may call support if they are confused by this.

Fix information:
The documentation has been updated for SoftPC 2.0.

KPR #: 400094904   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Turbo Prolog under CGA emulation broken.

Problem:
When using Turbo Prolog if you zoom the edit window, the program will malfunction.

Cause:
The problem only occurs when you zoom the edit window. It seems to work fine for everything else.

Temporary solution:
Workaround is to use Hercules emulation or never zoom the edit window to be full screen. Zooming the edit window is very common since editing on a 3x5 card is painful.

Fix information:
The problem is fixed with SoftPC 2.0.

Signed off 01/31/90 in release A02.00

KPR #: 400094912   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
ExecutiveMemomaker won't work. Too many file handles. config.sys OK.

Problem:

KPR #: 400094912 **CONTINUED**

Executive Memomaker will not run, it fails with the message "too many file handles."

Cause:
There is an incompatibility in the SoftPC emulation.

Temporary solution:
The workaround is to install Memomaker on either drive C: or drive D: where it works fine. The only problems are encountered when using it on the E:, or FSA, drive.

Fix information:
This problem was fixed in the final SoftPC 2.0B release.

Signed off 01/29/90 in release A02.00

KPR #: 400094920   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Drawing Gallery drops character when entering a text string.

Problem:
When entering text strings into Drawing Gallery a character may sometimes be lost.

Cause:
This happens when the input character buffer gets confused/overflowed.

Fix information:
This has been fixed for SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095026   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Cannot install Lotus 123 using SlavePC,SCR100

Problem:
When you do a series of installing and deinstalling Lotus 123, using SlavePC, onto the hard disk, it gives random bug codes. This will cause you to lose the install from the Lotus hard disk and will sometimes hang SoftPC.

Cause:
This was caused by problems with the SlavePC emulation.

Fix information:
Fixed by final SoftPC 2.0 release.

Signed off 01/29/90 in release A02.00

KPR #: 4000095034   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Mouse user interface is unfriendly, can be hard to use,SCR55,SCR163

Problem:
The middle mouse button is "captured" by SoftPC and thus cannot be used by applications like WP; this should be changed so that SoftPC will allow the pc software to get the mouse signals unless the mouse is in the right hand control panel. When the mouse is in the control panel the mouse should be able to be unattached using the toggle switch.

Cause:
The problems are caused by the design of the user interface.

Fix information:
May be fixed in a future release.

KPR #: 4000095042   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Escape character does not exit demo mode properly MS Flight Sim.,SCR161

Problem:
If you enter ESC to exit demo mode, you should switch to graphics mode 40 and the aircraft data should be displayed, however the 40 characters only cover the left hand side of the screen.

Cause:
There is a graphics incompatibility with SoftPC.

Fix information:
This was fixed with SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095059   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Sailing game will not run, encounters illegal instruction.SCR168

Problem:
Sailing game will not run; encounters illegal instruction.

Fix information:
May be fixed in a future release.

KPR #: 4000095067   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Advance Link won't install from floppy drive A:,SCR170

Problem:
When you try to install from the A: floppy drive as instructed and run the install program "c:\advancelink", it starts up and tells you

---

KPR #: 4000095067   **CONTINUED**

to press "return" to install or "esc" to escape. Pressing return causes it to hang up and you cannot escape, however, the menu windows still work.

Cause:
The problem was the program IBMWAIT.COM invoked from INSTALL.BAT. It is supposed to wait for <cr> or <esc> but just hangs.

Fix information:
This problem was fixed in the SoftPC 2.0 final release.

Signed off 01/29/90 in release A02.00

KPR #: 4000095075   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
The SoftPC cursor was the wrong color with some applications.SCR42

Problem:
SoftPC cursor is the wrong color (blue!).   Its ok on a monochrome screen.

Cause:
There was a problem with color mapping.

Fix information:
This was fixed in SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095083   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Graphics problems with text in pc mode 40, with Willy game.SCR102

Problem:
When you go to put your name into the score board, after the game is over, it shows half the screen with text, the other half with half the game on it. The text should be in mode 40.

Cause:
There were problems in the video emulation.

Fix information:
This was fixed for SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095091   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Problems updating complete screens of video memory,SCR167

Problem:
When painting to pages 1 and 4 of video memory the complete screen

KPR #: 4000095448   **CONTINUED**

I tried to attach the mouse, using the SoftPC button or the middle mouse button menu selection to attach the mouse, the SoftPC mouse button lit up, showing that the mouse was attached to the Smalltalk application. However, there was no mouse sprite (cursor) shown. If I moved the mouse rapidly out and back into the SoftPC window, I could see the X11 mouse cursor appear and dissappear. But was unable to use the mouse in the Smalltalk V application, no matter what I tried.

Fix information:
May be fixed in a future release.

KPR #: 4000095455   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Crosstalk XVI doesn't work with PC bulletin board yellow pages,SCR#162

Problem:
If you use the modem an Crosstalk, and connect to Electronic Yellow pages it asks you for a login. This should be 3264 in this case, but when it was entered the characters appeared as 3161. This happened all the time. Although crosstalk seems ok with all other bulletin boards.

Fix information:
May be fixed in a future release.

KPR #: 4000095463   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Graphics problem with Typ-Set, bad characters and backgrounds,SCR#86

Problem:
On the C drive when you start up TYP-SET, it draws the following: "Sweet-P", whereas on FSA it draws a mess from the corner of the screen. However, on both occasions it leaves the first screen, in blue, on the background when you enter the actual package.

Cause:
There was a graphics incompatibility in SoftPC.

Fix information:
This was fixed in SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095505   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
The scenery flashes when using MS Flight Simulator,SCR205

Problem:
The scenery flashed when using flight simulator due to slow graphics refreshes.

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KPR #: 4000095091   **CONTINUED**

was not updated, refreshing the screen cured the problem.

Cause:
There is some incompatibility in the SoftPC graphics emulation.

Temporary solution:
The workaround is to refresh the screen.

Fix information:
This was fixed in the SoftPC 2.0 release.

Signed off 01/29/90 in release A02.00

KPR #: 4000095109   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Round42 game has slow and bad graphics.SCR169

Problem:
Graphics are slow and are not working correctly.

Fix information:
May be fixed in a future release.

KPR #: 4000095117   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
PrintMaster program will not run from the FSA drive, E:,SCR172

Problem:
When you first run Printmaster and create a greetings card and try to save it with no name, the screen fills with funny characters. But if you press "ESC" twice you can get back to the option of saving it over again. The second time you try to save it with no name Printmaster says "I'm having trouble using the disk."

Cause:
There is some incompatibility with the SoftPC emulation.

Fix information:
This has been fixed with SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095448   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Mouse attached to Smalltalk V Application is inoperative

Problem:
I just installed SoftPC Rev 1.3 from the distribution tape, and encountered some problems:

I tried to run Smalltalk V, by Digitalk. Smalltalk V is very graphics intensive, and is optimized for use with a mouse. When

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KPR #: 4000095505 **CONTINUED**

Cause:
This was primarily caused due to the slow performance of graphics in SoftPC 1.3.

Fix information:
SoftPC 2.0 has greatly improved graphics capability and so does not cause the scenery to flash as obviously during updates.

Signed off 01/29/90 in release A02.00

KPR #: 4000095588   Product: SOFT PC FOR 9000/300 98870A   01.03
One-line description:
MS Windows does not list files selectively with WIN DRAW command,SCR202

Problem:
When you run "WIN DRAW" and select a file to draw, it should show only '*.PIC' files. Instead it shows all types including *.EXE, & *.TXT files. This is also on the s800. This happens on FSA only.

When you run "WIN DRAW" and select a file to draw, it should show only '*.PIC' files. Instead it shows all types including *.EXE, & *.TXT files. This is also on the s800. This happens on FSA only.

Cause:
This is caused by problems with FSA/HFX HP-UX filesystem access.

Fix information:
This is fixed in SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4000095695   Product: SOFT PC FOR 9000/300 98870A   01.03
One-line description:
The right hand alt key doesn't work,SCR232

Problem:
The right hand alt key on the console keyboard using the X11 version does not work.

Cause:
There is an omission from the X11 keyboard mapping file.

Fix information:
The X11 keyboard mapping file was updated for SoftPC 2.0.

KPR #: 4000095810   Product: SOFT PC FOR 9000/300 98870A   01.03
One-line description:
Crosstalk XVI has timing problems,SCR162

Problem:

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KPR #: 4000095810 **CONTINUED**

SoftPC was connected to a real PC and XTALK CALL was entered. XTALK ANSWER was entered on the PC. Then two files were sent at the default settings. Change speed to say 1200 baud, send two more files and quit Crosstalk from SoftPC, but leave the PC running. You can then enter a few characters after which SoftPC will hang. A number of keyboard or mouse actions cause the window to disappear as the Xserver is not getting in to clear the event queue. Note that if you quit Crosstalk from the PC first then the problem doesn't arise.

Fix information:
May be fixed in a future release.

Signed off 01/29/90 in release A02.00

KPR #: 4000096206   Product: SOFT PC FOR 9000/300 98870A   01.03
One-line description:
executing cat89051l.exe from hpccf gets "CRC Error" (works on XT)

Problem:

Here is the exact sequence to get the file from hpccf and cause a failure. This failure is slightly different from the one with cat90511.exe:

```
$ ftp hpccf
Connected to hpccf.
Name (hpccf:fjg): ftp
Password (hpccf:ftp): abc
331 Guest login ok, send ident as password.
230 Guest login ok, access restrictions apply.
ftp> cd VECTRA-IBM
200 CWD command okay.

ftp> bin
200 Type set to I.

ftp> get new90511.com
200 PORT command okay.
150 Opening data connection for new90511.com (15.1.104.2,1609) (9072 bytes).
226 Transfer complete.
9072 bytes received in 3.45 seconds (2.57 Kbytes/sec)

ftp> quit
221 Goodbye.
$
```

Then in the SoftPC window do:

```
E:\>new90511
LHarc's SFX 1.12bS (c)Yoshi 1989

890511.NEW .Write Error
```

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KPR #: 4000096206 **CONTINUED**

E:\>

Again, if the file was cat890511.exe, the failure would be:

E:\>cat890511
LHarc's SFX 1.12bS (c)Yoshi 1989

.............CRC Error

E:\>

Cause:
The program is probably malfunctioning due to some emulation error in SoftPC.

Fix information:
Fixed in the final release of SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 4700921791   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Falcon game will not run in Hercules graphics mode

Problem:
HGA: game won't run

Temporary solution:
The workaround is to use the game in EGA or CGA mode where it appears to function normally.

KPR #: 4700921882   Product: SOFT PC FOR 9000/300 98870A   01.03

One-line description:
Test Drive will not run in HGA mode

Problem:
HGA problems

KPR #: 5000463372   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
Soft PC does not understand local:0 DISPLAY variable

Problem:
Configuration: 360 with 6.5.

Soft PC requires that the display variable set to unix:0.0 not local:0.0 as documented in the 6.5 information. Soft PC will not come up unless the display variable is set correctly. This should be documented or

- SOFT PC FOR 9000/300 -

KPR #: 5000463372 **CONTINUED**

Soft PC should be recompiled on the 6.5 version of X Windows.

Cause:
The SoftPC was originally designed under HP-UX 6.2 which did not use local:0.0 as the display variable.

Temporary solution:
The workaround is to use "unix:0.0" as the display variable.

Fix information:
This has been fixed for SoftPC 2.0.

KPR #: 5000464107   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
Request:reposition window used to create new devices to avoid overlap

Problem:
The problem is that if any of the user interface menu windows is overlapping or overlapped by any other window, the user will not be able to write into it.

Cause:
The reason the windows cannot overlap any others is that SoftPC 1.3 was not developed to work with reparenting window managers such as HPWM.

Fix information:
This has been corrected for SoftPC 2.0.

Signed off 01/29/90 in release A02.00

KPR #: 5000474726   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
can't enter text into menu box when adding a new hard drive using menu

Problem:
The problem is that SoftPC 1.3 does not function well with some reparenting window managers.

Cause:
The cause of the problem is that SoftPC cannot get access into the menu windows due to conflicts with the window manager.

Fix information:
This defect has been fixed in SoftPC 2.0. The 2.0 version will now function properly with reparenting window managers, such as hpwm.

Signed off 01/29/90 in release A02.00

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KPR #: 4700887851   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Mouse driver: current version is old/doesn't work properly w/new apps.

Problem:
Mouse driver obsolete

Cause:
This problem was caused by an incompatibility with the mouse driver.

Temporary solution:
The workaround is to install one of the newer device drivers included with some of the software packages. The MS Word 5.0 package provides a mouse driver, mouse.sys, that can be installed using the config.sys program as follows.

Add the following line to the config.sys.
device=mouse.sys

Using this workaround, the mouse seems to work properly.

Fix information:
There was a new mouse driver shipped with SoftPC to replace the older, faulty driver. Other problems related to the mouse were fixed in the actual code.

KPR #: 4700911818   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Running WordPerfect slows down SoftPC by 4 times

Problem:
WordPerfect Slow down

Cause:
It seems like this problem is caused by an access to the filesystem.

Temporary solution:
The workaround to this defect is to restart SoftPC immediately following use of WordPerfect. The SoftPC will then return to "normal" performance.

Fix information:
This problem was due to a problem with the way WP opened files. It disappeared completely after restarting SoftPC.

KPR #: 4700921700   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
drive B doesn't work unless on at DOS boot time

Problem:
If drive B (which is half of a 9122D) is not on when I boot MS-DOS,

---

KPR #: 500052143   Product: SOFT PC FOR 9000/300 98870A   01.03

Keywords: SOFT PC

One-line description:
Lotus, Work Perfect will not work with drive e on SPC 1.3

Problem:
The problem with Lotus 123 version 2.2 has been investigated and found to occur with SoftPC 2.0 on drive E:. Files can be created on the E: drive, but they cannot be subsequently accessed. The Lotus 123 version 2.01 can access these files with no problems nor does it have any other problems on drive E. This is being worked on now.

The WordPerfect problem was investigated and due to insufficient detail(i.e no version numbers, no display information(i.e ega, cga or hga) and no exact package name information) the following packages were tested: WordPerfect 5.1, WordPerfect 5.0, WordPerfect Office 2.0. No problems were found with any of these packages when accessing drive E:. Thus, we need further information to define the WordPerfect problem.

Cause:
This problem was caused by Lotus 2.2 making a call to a new networking function of MS DOS. The particular call was not handled properly and so the file could not be accessed when using the E: drive (which appears as a networked drive to SoftPC.)

Temporary solution:
The workaround to this defect is to use Lotus on either drive D: or C:. Otherwise, Lotus 2.01 may be used on any of the available hard disk files, it works properly on all of them.

Fix information:
This was fixed by updating the SoftPC handling of MS DOS network calls. Fixed in release 2.00.

Signed off 10/16/90 in release A02.00

KPR #: 470921742 **CONTINUED**

The DOS Coprocessor disk doesn't work because of a "disk geometry" check that SoftPC does to insure that the file is a proper hard disk file.

Fix information:
A new algorithm was used for hard disk validation. The new method looks at the signature byte in the hard disk which is loaded and verified. It also looks at the file size to see if it is a multiple of 30 cylinders, which it should be. If it is not, then the maximum allowable cylinders variable is set to be 1023 (the max. for DOS disks). This is not dangerous since it will expand up to the original partition size. Fixed in release 2.00.

Signed off 10/19/90 in release B02.00

KPR #: 470921775   Product: SOFT PC FOR 9000/300 98870B   01.30

One-line description:
autofreeze behaves incorrectly with explicit keyboard focus

Problem:
The SoftPC auto-freeze option does not behave correctly when the KeyboardFocusPolicy is set to "explicit" under hpwm. Using the explicit policy, you must click the title bar of a window to get the keyboard focus. The keyboard focus remains until you explicitly move it to another window. Thus the mouse can leave the window, but the keyboard focus will remain with the window until another window's title bar is clicked. Because of this, the auto-freeze option should be triggered on keyboard focus, not strictly mouse enter/leave events. SoftPC does not do this. Under explicit policy, SoftPC stil freezes itself whenever the mouse leaves the window which is incorrect.

Cause:
The SoftPC auto-freeze option does not behave correctly when the KeyboardFocusPolicy is set to "explicit" under hpwm. Using the explicit policy, you must click the title bar of a window to get the keyboard focus. The keyboard focus remains until you explicitly move it to another window. Thus the mouse can leave the window, but the keyboard focus will remain with the window until another window's title bar is clicked. Because of this, the auto-freeze option should be triggered on keyboard focus, not strictly mouse enter/leave events. SoftPC does not do this. Under explicit policy, SoftPC stil freezes itself whenever the mouse leaves the window which is incorrect.

Fix information:
This was fixed in the final SoftPC 2.0 release.

Signed off 10/19/90 in release B02.00

KPR #: 470921783   Product: SOFT PC FOR 9000/300 98870B   01.20

One-line description:
assigning /dev/tty to COM1 causes SoftPC to hang

Problem:

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KPR #: 470921700 **CONTINUED**

I cannot subsequently use it, as the system is then configured for single-drive operation. Any request for drive B produces the prompt "insert diskette for Drive B", and the system then uses drive A.

If I have both drives on when I boot DOS, then I can use both with no problems.

Temporary solution:
The workaround is to restart SoftPC once the drive B has been turned on. This is relatively simple and easy to do using the menu panel.

KPR #: 470921718   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
MKS "ls" command makes drive E unusable

Problem:
MKS confuses driveE

KPR #: 470921726   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Cursor sometimes vanishes forever

Problem:
Cursor vanishes

Cause:
There is some incompatibility in the graphics emulation.

KPR #: 470921734   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
all files created on drive E have execute permission

Problem:
Permissions: DriveE

KPR #: 470921742   Product: SOFT PC FOR 9000/300 98870B   01.02

One-line description:
can't use DOS coprocessor hard disk

Problem:
When using SoftPC with autoflush it will only work for one X11 instantiation of SoftPC at a time. For example, if you have two SoftPCs and one has the PRN assigned to COM1 and the other has PRN assigned to COM3, and you print autoexec.bat from both SoftPCs, only the SoftPC that was first assigned will be autoflushed. The other SoftPC will not autoflush, although the manual flush will work. This happened when attempting to copy to the COM ports also. This was using both the EGA and HGA displays on the C: drive.

Cause:

- SOFT PC FOR 9000/300 -

KPR #: 4700921783 **CONTINUED**

Assigning /dev/tty to COM1 results in SoftPC hanging up when OK is hit in the COM/LPT panel. I realize that /dev/tty is not something you'd normally assign to a COM/LPT port since it's neither a RS232 or HPIB device (with the X11 version, that is). However, it seems like SoftPC should detect that the device is illegal, print an appropriate error message and let you continue. This is also a problem on the s800.

Cause:
This is probably caused by problems with the signal handling.

Fix information:
This is fixed with SoftPC 2.0.

Signed off 10/23/90 in release B02.00

KPR #: 4700921809   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
SoftPC terminal version numeric keypad mapping gets confused

Problem:
Terminal: key map

KPR #: 4700921825   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
key repeat delay too long

Problem:
key delay too long

KPR #: 4700921833   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
spc.term link should use basename

Problem:
Executable Name

KPR #: 4700921858   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
EGA area fill test hangs

Problem:
EGA test hangs

KPR #: 4700921866   Product: SOFT PC FOR 9000/300 98870B   01.03

One-line description:
MS Windows 2.03 crashes

Problem:

- SOFT PC FOR 9000/300 -

KPR #: 4700921866 **CONTINUED**

MS Windows 2.03 does not function properly. The mouse will attach fine and the tracking is better than with MS Windows 1.03 and SoftPC but when attempting to use the return key on the keyboard MS Windows will crash with a "divide by zero" message. Some of the MS Windows applications, like reversi and cardfile will run, while the attempting to run the calendar program will also lock up MS Windows and require a KILL -9 to reset(the menus do not work) CTL-Alt-DELETE will not reset the SoftPC in either case and it must be done using the menu. This was tested using drive E, the ega.sys MS Windows driver and the EGA display.

Cause:
This was caused by the way SoftPC was handling INT 6F, which is a CMOS read on HP PC clones. On a standard AT this will cuse just an IRET, which is what we now do. In addition Delta was modified to spot self modifying code.

Fix information:
The fix was to change the handling of INT 6F so that it just caused an IRET. Fixed in release 2.00.

Signed off 10/23/90 in release B02.00

KPR #: 4700921874   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Character Attributes do not function properly

Problem:
Blinking broken

KPR #: 4700921890   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
3.5-inch floppy read errors

Problem:
Floppy problems

KPR #: 4700921908   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
FSA, malfunctions with similarly named files, can lose data

Problem:
FSA problems

KPR #: 4700921916   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
no screen refresh during mediainit

- SOFT PC FOR 9000/300 -

KPR #: 4700921965   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Some of the text on the menus is cut off by the borders.

Temporary solution:
The problem is that the menu geometries are not being computed correctly based on the font size. The menu boxes are pre-sized and so if a global font is defined that does not fit into the boxes properly the menus will be cut off and characters lost. The workaround is to include the following line in the users .Xdefaults file:

sOftPC*font: fixed

KPR #: 4700921973   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Codepage Switching command "chcp" sometimes performs incorrectly

Problem:
DOS CHCP broken

KPR #: 4700921981   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
MicroSoft Excel locks up SoftPC if invoked twice in a row

Problem:
MS Excel crashes

Temporary solution:
Do not invoke Excel consecutively, i.e, if you must exit Excel, do whatever you have to do, reboot the SoftPC and then re-enter Excel.

KPR #: 4700921999   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Word Perfect learn program behaves incorrectly

KPR #: 4700922005   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Second or Third invocation of SoftPC may fail with internal error

KPR #: 4700922013   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
BIOS Data Wrong coming from Debug program

Problem:
BIOS data wrong

KPR #: 4700922021   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Multiple file compare fails with DOS comp command

Problem:
Mul file comp. fail

KPR #: 4700922039   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Zoom using Mouse

Problem:
Zoom using mouse

KPR #: 4700922054   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
MS windows logo should not always come up

Problem:
Windows Logo

KPR #: 4700922070   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Cursor appears in wrong place in Chartmaster

Problem:
Cursor lost

KPR #: 4700922088   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Caps lock not disabled

Problem:
Capslock broken

KPR #: 4700922096   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Pointer Stuck on MS Windows

Problem:
Pointer Stuck

Duplicate Service Requests: 4700923078

KPR #: 4700922104   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Data Error using DOS restore

Problem:
Data Error

KPR #: 4700922112   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
RMVC causing minor error

Problem:
RMVC causing error

KPR #: 4700922120   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Fastopen works, and probably shouldn't

Problem:
Fastopen works!

KPR #: 4700922138   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Two scrolling Screens have problems with EGA Demo

Problem:
Two Scrolling Screens

KPR #: 4700922146   Product: SOFT PC FOR 9000/300 98870B   01.30

One-line description:
Errors when editing or creating drawings with Autocad

Problem:
Autocad comes up with "fatal error disk full" when attempting to
edit an existing drawing or create new one.

Cause:
Autocad comes up with "fatal error disk full" when attempting to
edit an existing drawing or create new one.

Fix information:
A simple fix to FSA/HFX cured this problem. The calculation
involving the size of a file during random writes was incorrect.
Fixed in release 2.00.

Signed off 10/23/90 in release B02.00

KPR #: 4700922153   Product: SOFT PC FOR 9000/300 98870B   01.30

One-line description:
LIM user interface is hard to use

Problem:
Setting up a LIM size that SoftPC cannot allocate (eg 8MB on a low
memory system), you get an error panel saying "Bad CMOS:Equip byte is
wrong" you do a "continue" and you get an error panel saying "spoc
cannot allocate enough memory" with quit as the only option. This
is very tedious it should be like the disk config that puts you
straight back into the disk panel if you select a non existent disk.

                                           - SOFT PC FOR 9000/300 -

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KPR #: 4700922153   **CONTINUED**

Cause:
The user interface does not allow an alternative to "quit" when
problems with LIM are encountered.

Fix information:
This was fixed in SoftPC 2.0.

Signed off 10/23/90 in release B02.00

KPR #: 4700922161   Product: SOFT PC FOR 9000/300 98870B   01.30

One-line description:
Tests operate incorrectly with PC Labs

Problem:
When doing fill demo incorrect lines appear on screen.

Cause:
This was probably caused by problems in the graphics emulation.

Fix information:
Fixed in release 2.00.

Signed off 10/23/90 in release B02.00

Duplicate Service Requests: 4700922302

KPR #: 4700922179   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Detect Caps and Numlock

Problem:
Detect Caps+Numlock

KPR #: 4700922187   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Improper Display with NYET

Problem:
Improper Display

KPR #: 4700922203   Product: SOFT PC FOR 9000/300 98870B   01.30

One-line description:
File error with Multimate advantage

Problem:
Cannot open existing document. Get the following error: Fatal
diskette I/O error F:22/S:01/A:1900
please reboot system

Cause:

                                           - SOFT PC FOR 9000/300 -

KPR #: 4700922203 **CONTINUED**

There is a problem with the HP-UX filesystem access that is somehow causing this problem.

Fix information:
Modifications to FSA/HFX have corrected this problem.
Fixed in release 02.00.

Signed off 10/23/90 in release B02.00

KPR #: 4700922211 Product: SOFT PC FOR 9000/300 98870B 01.30

One-line description:
Executing VGA tests fails with internal error using PCLabs test

Problem:
When running the display tests on an EGA graphics mode I accidentally pressed 17 and ran the tests for VGA, SoftPC failed with a signal 11 internal error.

Cause:
The SoftPC video emulator was falling off the end of an internal table.

Fix information:
This has been fixed to fail gracefully, since SoftPC 2.0 does not support VGA. Fixed in release 2.00.

Signed off 10/23/90 in release B02.00

KPR #: 4700922229 Product: SOFT PC FOR 9000/300 98870B 02.00

One-line description:
Display problems with NYET

Problem:
When playing this game if you press esc to pause the game you get black text on a yellow background saying Bame paused press any key to continue.
When you press any key the text disappears but the yellow block stays there still.

KPR #: 4700922237 Product: SOFT PC FOR 9000/300 98870B 02.00

One-line description:
File access error with PFS First Choice

Problem:
File access error

KPR #: 4700922245 Product: SOFT PC FOR 9000/300 98870B 01.30

One-line description:
All keys in MS Word autorepeat

Problem:

                    - SOFT PC FOR 9000/300 -

KPR #: 4700922245 **CONTINUED**

All keys autorepeat

Temporary solution:
The workaround is to use drive D or E for MS Word. MS Word 5.0 appears to run properly from these drives.

Fix information:
Fixed in release 2.00.

Signed off 10/23/90 in release B02.00

KPR #: 4700922252 Product: SOFT PC FOR 9000/300 98870B 02.00

One-line description:
SKPlus HFX hard disk full

Problem:
SKPlus/HFX disk full

KPR #: 4700922260 Product: SOFT PC FOR 9000/300 98870B 02.00

One-line description:
Error with Framework II reading disk

Problem:
Disk Read error

KPR #: 4700922278 Product: SOFT PC FOR 9000/300 98870B 02.00

One-line description:
MicroSoft RBase volume label bad

Problem:
Volume label bad

KPR #: 4700922286 Product: SOFT PC FOR 9000/300 98870B 01.30

One-line description:
RMVC.SYS formatting D: drive will fail

Problem:
Formatting the D drive starts as nomal then instead of saying "system transferred" and prompting for a volume label, format reports "General Failure error reading in Drive D:"

Cause:
This was caused by errors in RMVC.SYS.

Fix information:
The RMVC.SYS file now works correctly, there was no other impact on SoftPC. Fixed in release 2.00.

Signed off 10/23/90 in release B02.00

                    - SOFT PC FOR 9000/300 -

KPR #: 470092294   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
The Antix game hangs when you start it up
Problem:
Antix hangs

KPR #: 470092310   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
The BIOS test BL-13-3 hangs SoftPC
Problem:
BIOS TEST fails

KPR #: 470092328   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
Printing a file does not work properly sometimes with a parallel printer
Problem:
Printing broken

KPR #: 470092336   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
No error message if spcterm run on terminal assigned as com port output
Problem:
Bad Setup, sterm err.

KPR #: 470092344   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
DOS Graph: Garbage on screen
Problem:
Garbage on Screen

KPR #: 470092351   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
Using QT windows small blobs on screen, bad display
Problem:
Small blobs on screen

KPR #: 470092369   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
The boot message for SoftPC doesn't include the year 1989
Problem:
SoftPC Boot Message

- SOFT PC FOR 9000/300 -

KPR #: 470092377   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
The SoftPC Mouse may be attached in two SoftPC windows at once
Problem:
Works in 2 SoftPC's

KPR #: 470092385   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
"," key works intermittently on 2392, 2393, 70094 terminals
Problem:
"," key doesn't work

KPR #: 470092393   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
The SoftPC menu editing does not always provide autorepeat
Problem:
Autorepeat error

KPR #: 470092401   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
The SoftPC SlavePC runs very slowly
Problem:
SlavePC Slow

KPR #: 470092419   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
PC Tools Deluxe does not display all files properly in a listing
Problem:
Files not displayed.

KPR #: 470092427   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
Cannot play NiteOrc game
Problem:
Niteorc game cannot be played. When playing the game you can only
type in the first couuple of commands. After that, all you can see
when you type is the cursor moving about the screen and you have to
reboot SoftPC to get out.

KPR #: 470092435   Product: SOFT PC FOR 9000/300 98870B   02.00
One-line description:
Cannot play Tetris game because you cannot see shapes
Problem:

- SOFT PC FOR 9000/300 -

KPR #: 4700922492   **CONTINUED**

Temporary solution:
In order to switch from Hercules to EGA or vice versa, use the CGA
mode as an intermediate step, i.e., switch to CGA mode and then to
Hercules or switch to CGA and then to EGA. This takes more time but
it works consistently.

KPR #: 4700922500   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Starflight game will not run in EGA mode

Problem:
The starflight game will not run in EGA mode.

KPR #: 4700922518   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
cannot use MODE to set 19.2K baud rate

KPR #: 4700922526   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
SoftPC behaves incorrectly with explicit KB focus policy

KPR #: 4700922534   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
should not permit "block" device files for floppy

KPR #: 4700922583   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
AdvanceLink: Ctrl-F6 doesn't work

Temporary solution:
You can bring up the Global Configuration screen by hitting
the Terminal softkey and then choosing "Config Keys".

KPR #: 4700922591   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
AdvanceLink hangs after Alt-H

KPR #: 4700922757   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
X11 keyboard:Numeric keypad "/" key does not work

KPR #: 4700922765   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
X11 Keyboard: ScrLckBreak key does not register on Diagnostic Programs

- SOFT PC FOR 9000/300 -

KPR #: 4700922435   **CONTINUED**

Can't see shapes

KPR #: 4700922443   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Mouse doesn't work properly with Ventura publishing

Problem:
Ventura mouse fails

KPR #: 4700922450   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
File retrieval with Turbo Prolog may have problems

Problem:
Filename moves

KPR #: 4700922468   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
The CTL-Break key is not detected properly with test

Problem:
Ctrl Break not seen

KPR #: 4700922476   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
SoftPC Filename mapping shouldn't use shell wildcard characters

Problem:
FSA:shell conflict

Temporary solution:
The workaround is to enclose the odd filename with ' (left
pointing) quotes, so that the shell interprets the file name as a
literal and does not attempt substitution.

KPR #: 4700922484   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
The printscr key does not function on the 700/44

Problem:
TERM: no printscr

KPR #: 4700922492   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Switching graphics modes from EGA to Hercules and back may confuse SPC

Problem:
UIF:graphics modes

- SOFT PC FOR 9000/300 -

KPR #: 4700922773   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Codepage language support: German,"7"key, "\" dead key broken

KPR #: 4700922781   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
70044 terminal: Asterisk key not working on numeric keypad

KPR #: 4700922799   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
FSA, filenames with certain extensions not accesible from SoftPC

Temporary solution:
The workaround is to rename the desired files so that they are lower case and follow the DOS naming conventions.

KPR #: 4700922807   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Reverse video does not work on the 2392,2394 and 7009x terminals

Cause:
There could be a problem with the escape sequence used to enter reverse video. I suspect that the HP escape sequence is used, thus the older, simpler terminals allow it, while the newer terminals ignore it. This is a problem because the terminal is in Ansi mode and so the ANSI escape sequence should be used instead. Perhaps a simple change of escape sequence would work.

KPR #: 4700922815   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
DOS Xcopy command doesn't work properly with FSA directories

KPR #: 4700922823   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Concurrent PC-DOS won't install on SoftPC

KPR #: 4700922831   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Displaywrite4 screen not refreshed completely

KPR #: 4700922849   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Problems reseting LIM (memory) to zero

KPR #: 4700922856   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
learn program from Microsoft Works locks entire SoftPC window

Problem:
While using the learn program that comes with MicroSoft Works, I reached a point where the prompt directed me to hit PgDn to get to the next screen. After hitting PgDn, the entire window hung where the middle mouse button would not even bring down a menu. The process had to be killed from another window. I recovered the previous relesae of spc.x11 and it did not have the problem. HP-UX 6.5, X11 windows, 370 with 16 Mbyte memory, 98547A graphics card, 98751A monitor, 7959B disk. BTW, the 800 version of SoftPC also exhibits the problem.

KPR #: 4700922864   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Microsoft Works 2.0: using same arrow key causes unwanted repeating

KPR #: 4700922880   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
Trying to start Quattro Pro fails and ocassionally locks all windows

KPR #: 4700923094   Product: SOFT PC FOR 9000/300 98870B   02.00

One-line description:
does not handle input before boot message is up

KPR #: 470092294   Product: SOFT PC FOR 9000/300 98870C   02.00

One-line description:
spc hangs when HP BASIC-UX is active

KPR #: 400096396   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
render_scene gives incorrect error message for unclosed trim curves

Problem:
The "improper parameter message" should be changed to something more meaningful.

Cause:
At the time of release, a meaninful error message did not exist in the error catalog.

Fix information:
A new error message has been added to the error catalog. "Improper parameter value" now reads "Cannot perform this operation if trim curves are not closed". The new error message was added to version B.02.00.

Signed off 10/23/90 in release A02.02

KPR #: 400096412   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Objects diappear when they are place exactly on the hither plane.

Problem:
The ray tracer starts exactly on the hither plane. When a polygon is intersected, if it occurs within a certain epsilon of the origin of the intersection, it is rejected. The problem only occurs if a polygon is exactly on the hither.

Temporary solution:
The user can work around this problem by making sure that all objects are within the clipping volume. The easiest way to do this is to adjust the clipping volume with a call to view_camera.

Fix information:
Because the frequency of the problem is so low, and because the problem can easily be avoided, it is viewed as an enhancement request, not a defect.

Signed off 10/23/90 in release A02.00

KPR #: 400096438   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Radiosity shadows not computed for extremely small environments.

Problem:
The problem resulted from the fact that the ray tracing shadow test had to move off the surface to avoid self-intersection and to avoid intersecting other polygons that the touch the surface at the vertex from which the ray is being shot.

KPR #: 400096438 **CONTINUED**

Temporary solution:
This problem can be avoided by scaling the data to larger values.

Fix information:
The shadow testing algorithm has been modified in Version B.02.00, eliminating the problem.

Signed off 10/23/90 in release A02.00

KPR #: 4000096446   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
False shadows are produced at some polygon vertices

Problem:
The ray tracing shadow tests, used in radiosity, were incorrectly setting an epsilon value for vertices along the exterior boundaries of polygons.

Fix information:
The shadow testing algorithm in radiosity has been revised. The new algorithm eliminates the problem. The problem has been fixed in version B.02.00.

Signed off 10/23/90 in release A02.00

KPR #: 4000096461   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Complex polygons may get holes punched in them.

Problem:
In very complex polygons with lots of overlapping holes and edges, extra loops are created by the mesher that shouldn't be there. It is unlikely that this type of polygon would be encountered by users.

Temporary solution:
This is expected to be a corner case, that will appear only with certain types of data. Which data cause this problem is not well categorized. In some cases the user may be able to generate the same shape using different data which avoids the problem.

Fix information:
The mesher has been modified for Version B.02.00.

Signed off 01/30/90 in release B02.00

KPR #: 4000096479   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
"Invalid global environment id" should read "Invalide scene id"

Problem:
"Global environment" should read "scene".

                    - STARBASE RAD & RAY -

KPR #: 400096479 **CONTINUED**

Cause:
The error message catalog was worded incorrectly.

Fix information:
The global environment error message has been replaced in Version B.02.00.

Signed off 10/23/90 in release A02.00

KPR #: 4000097113   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Facets disappear in some ray traced spline surfaces.

Problem:
Facets disappear in ray trace of certain spline shapes

Temporary solution:
The problem can be somewhat alleviated by scaling down the spline surface by a factor of 1000.

Fix information:
This problem will be fixed in the next revision.

Signed off 01/30/90 in release A01.01

KPR #: 4000097121   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Facets have "acne" in ray trace of certain spline surfaces

Problem:
Surfaces have "acne" in ray trace of certain spline surfaces.

Fix information:
This problem will be fixed in the next revision.

Signed off 01/30/90 in release A01.01

KPR #: 4000097139   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Gamma correction causes a crash for backgrounds and flat shade items.

Problem:
Gamma correction causes a crash for backgrounds and flat shade items.

Fix information:
This problem will be fixed in the next release.

Signed off 01/30/90 in release A01.01

                    - STARBASE RAD & RAY -

KPR #: 4000097147   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Facets get shadowed when radiosity done on specific spline surface

Problem:
Facets get shadowed on particular spline surfaces.

Fix information:
May be fixed in a future release.

Signed off 01/30/90 in release A01.01

KPR #: 4000097154   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
When a trimming curve is applied to certain spline surfaces edges drop

Problem:
When a trimming curve is applied to a spline surface sometimes the edge drops out.

Fix information:
This problem will be fixed in the next revision.

Signed off 01/30/90 in release A01.01

KPR #: 4000098533   Product: STARBASE RAD & RAY   98885A   01.00

One-line description:
Intensities per/vertex not blended correctlyon meshed polygons.

Problem:
The intensities per/vertex not blended correctly on meshed polygons.

Fix information:
Fixed in version B.02.00.

- STARBASE RAD & RAY -

KPR #: 4700852525   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
Some x400 utils, when run as root, leave behind *.conf belonging to root

KPR #: 4700876714   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
MR version contains several man pages from FT

KPR #: 4700883124   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
Queview only works when the full pathname is specified

KPR #: 4700885632   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
x4perm has a problem changing premsissions for x4dump, x4mailer, etc

KPR #: 4700929372   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
Zero length subject causes encoder to go down(error 5029 or event 505)

Fix information:
Problem has been fixed. Patch is available. Patch name is encoder.B.01.11. The patch is available with Response Centers.

Signed off 08/15/90 in release B01.11

KPR #: 4700941898   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
x4xfer fails if MPE nodename extenion is > 16 characters

Fix information:
This problem has been fixed. It will be included in the next release of X.400.

KPR #: 5000558338   Product: X.400 SERV SOFTWARE   32058A   00.00

One-line description:
x4admin core dumps when hit <field help> on local x.25 nsap field.

Problem:
This SR is actually against the X.400/9000 Server, version B.01.00. In x4admin, go to 'LOCMTA Configure Local MTA' screen. Tab down to 'Local NSAPS' X.25' field and then press <f7> to get Field Help. Terminal hangs and following message displayed in X.25 field:

Segmentation error: core dump

Reproduced this problem on 2 different systems.

Cause:

- X.400 SERV SOFTWARE -

KPR #: 5000558338   **CONTINUED**

The real cause of this problem is the fact that the x4mailer process
is using some of the same sets in the message catalog as x4admin.
It turns out that this was happening because x4mailer has msgs. 450
through 456 in set 42 of msgcat. These x4mailer messages all have
"%1$s" in them. The x4admin help messages for the X.25 NSAP field are
msgs. 401 through 500 in set 42. X4admin is doing an nl_sprintf on
all these messages, and is not supplying any arguments to be
substituted in because help messages are just plain text.
Since message 450 has "%1$s" when x4admin tries to sprintf it
without giving it an argument, x4admin core dumps. Note that x4admin
only core dumps if compiled with optimize on, which is why we did not
catch this problem before MR.

Note: X4mailer is an X.400/9000 process, not an X.400 Server process,
but its messages are in the X.400 Server catalog because there is only
one 300 version of msgcat for both the X.400 Server and X.400/9000.

Fix information:
X4mailer will be modified to use some other message catalog sets which
x4admin is not using, which will fix this particular problem. In
addition, we are changing our testing strategy so that we do more
testing with the code optimized and debug turned off.

This problem exists in the B.01.00 release (MR release) of both the HP
X.400 Server and HP X.400/9000, and in
pre-release GOSIP versions. This problem will be fixed in the GOSIP
release.

- X.400 SERV SOFTWARE -

Product name	Product number	uu.ff	prev
ADVMAIL FOR TERMINAL	B1601A	00.00	00.00
OPENMAIL	B1600A	00.00	00.00
OPENMAIL ADMN HELP	B1602-90002	00.00	00.00
OPENMAIL/X.400	B1600X4	00.00	00.00

Product name	Product number	SSB ISSUE DATE	Page
ADVMAIL FOR TERMINAL	B1601A	10/09/90	3
OPENMAIL	B1600A	10/09/90	1
		10/09/90	5
OPENMAIL/X.400	B1600X4	10/09/90	2
		10/09/90	29

KPR number	page	KPR number	page	KPR number	page	KPR number	page
1600103309	5	1600105296	14	1600106120	21	1600108225	31
1600103317	6	1600105304	14	1600106278	29	1600108233	32
1600103358	6	1600105312	15	1600106385	21	1600108241	32
1600103366	8	1600105346	16	1600106716	22	1600108662	24
1600103408	8	1600105361	16	1600106823	22	1600108696	24
1600103424	9	1600105379	17	1600106849	22	1600108720	25
1600103432	10	1600105387	17	1600106856	23	1600108753	25
1600103457	10	1600105452	18	1600106963	4	1600108761	26
1600103499	11	1600105544	3	1600107334	29	1600108803	26
1600103531	11	1600105619	18	1600107656	23	1600109215	32
1600105007	3	1600105791	19	1600107698	4	1600109223	33
1600105080	12	1600105809	3	1600107797	4	1600109264	1
1600105163	29	1600105965	19	1600108068	30	1600109330	2
1600105171	12	1600106047	20	1600108134	24	5000538389	26
1600105197	13	1600106054	20	1600108191	30	5000550467	27
1600105270	13	1600106070	20	1600108217	31	5000550756	28

- ADVMAIL FOR TERMINAL -   SSB ISSUE DATE: 10/09/90

Keyword	Product number	uu.ff	Description	KPR number	page
*********none*********	B1601A	00.00	Internal error 401 occurs when using shift/home after a re-order.	1600106963	4
ADVMAIL	B1601A	00.00	If BCC is a Public DistList then recips do NOT see name when msg. read	1600107797	4
	B1601A	00.00	^L does not refresh function key labels - they are removed	1600105544	3
	B1601A	00.00	Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809	4
	B1601A	00.00	Only "End of Item" line displayed on message entry	1600107698	4
FOLDER	B1601A	00.00	Folder functions within the wastebasket do not work properly	1600105007	3
OUTPUT	B1601A	00.00	Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809	3
PATCHED	B1601A	00.00	Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809	3
SCREEN	B1601A	00.00	Screen output from advmail that doesn't occur via JAM is in ISO8859/1	1600105809	3
WASTEBASKET	B1601A	00.00	Folder functions within the wastebasket do not work properly	1600105007	3

- OPENMAIL -   SSB ISSUE DATE: 10/09/90

Keyword	Product number	uu.ff	Description	KPR number	page
*********none*********	B1600A	00.00	Temporary files gradually accumulate in the user 'g' directories	1600106716	22
	B1600A	00.00	Some 8-bit characters are not displayed on Term U/I function keys	1600108720	25
	B1600A	00.00	Submission date of messages is creation date NOT the mailing date	1600108753	25
	B1600A	00.00	PC ASCII files with lines longer than 80 chars are not copied correctly	1600108761	26
ACKNOWLEDGEMENT	B1600A	00.00	Reply ACKs set on messages from Desk to OpenMail are not satisfied.	1600105171	12
	B1600A	00.00	Ack on message from PC Advmail to Desk user with name >26 chars errors	1600105296	14
ADVMAIL	B1600A	00.00	Cant put acks on a message forwarded from your pending tray.	1600103366	8
	B1600A	00.00	Delete part of message to be sent get "Internal Error 5001"	1600103499	11
	B1600A	00.00	Wrong error message if edit non-writable file in "configuration" area	1600103531	11
	B1600A	00.00	Ack on message from PC Advmail to Desk user with name >26 chars errors	1600105296	14
CATALOG	B1600A	00.00	If BCC is an alias name the recipient does NOT see it when reading msg.	1600105619	18
	B1600A	00.00	Non-delivery text generated by Desk gateway can contain non-Roman8 chars	1600105965	19
	B1600A	00.00	omvers checks the n-computer message catalogs instead of checking $LANG	1600106070	20
DBVISTA	B1600A	00.00	Daemons are started but don't process any messages.	1600103358	6
DESK	B1600A	00.00	Messages from unix mail to Desk, via OpenMail sometimes do not arrive	1600105304	14
DESK GATEWAY	B1600A	00.00	Non-delivery forwarded from OM to HP Desk to OM gets corrupted.	1600103317	6
	B1600A	00.00	Reply ACKs set on messages from Desk to OpenMail are not satisfied.	1600105171	12
	B1600A	00.00	Trailing spaces are removed on binary files sent between OM and Desk	1600105197	13
	B1600A	00.00	Messages from unix mail to Desk, via OpenMail sometimes do not arrive	1600105304	14
	B1600A	00.00	If text with control codes is sent from Desk to OM, text is lost.	1600105452	18
	B1600A	00.00	Non-delivery text generated by Desk gateway can contain non-Roman8 chars	1600105965	19
DIRECTORY	B1600A	00.00	Desk gateway rejects text lines greater than 152 characters	1600109264*	1
ENVIRONMENT	B1600A	00.00	X.400 ORNames require that a surname is entered	1600107656	23
FILE	B1600A	00.00	Function keys in omadmin are displayed badly if TERM is corrected.	1600106054	20
HANG	B1600A	00.00	ommodu does not change ownership of user's files	1600105312	15
HELP	B1600A	00.00	omon and omoff can appear to hang when CPU loop on the HP 9000.	1600103408	8
LOCAL DELIVERY	B1600A	00.00	The omshowdir MAN Page references "genadddir"	1600106047	20
LOOP	B1600A	00.00	Large message sent to Openmail lost without trace	5000050467	27
MAILNODE	B1600A	00.00	Tight CPU loop stopping terminal over LAN if in compose editor.	1600103309	5
	B1600A	00.00	Omadmin can produce "link layer" error when displaying a "*" mailnode	1600105361	16
	B1600A	00.00	Bad error displayed for "List Directory by Mailnode" with no mailnode	1600105379	17
MODIFY	B1600A	00.00	ommodu does not change ownership of user's files	1600105312	15
OMADDDIR	B1600A	00.00	The omshowdir MAN Page references "genadddir"	1600106047	20
OMADMIN	B1600A	00.00	Title half way down output with version listing to the printer.	1600103424	9
	B1600A	00.00	Add 2 users in omadmin, 2nd gets the password of the first.	1600103457	10

CUMULATIVE KEYWORD INDEX

- OPENMAIL -   SSB ISSUE DATE: 10/09/90

Keyword	Product number	uu.ff	Description	KPR number	page
OMADMIN	B1600A	00.00	ommodu does not change ownership of user's files	1600105312	15
	B1600A	00.00	Omadmin can produce "link layer" error when displaying a "*" mailnode	1600105361	16
	B1600A	00.00	Bad error displayed for "List Directory by Mailnode" with no mailnode	1600105379	17
	B1600A	00.00	omadmin doesn't have single line function key labels for vt100 & vt220s	1600105387	17
	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO8859/1	1600105791	19
	B1600A	00.00	Function keys in omadmin are displayed badly if TERM is corrected.	1600106054	20
	B1600A	00.00	Refresh omadmin screen doesn't refresh softkeys	1600106823	22
	B1600A	00.00	omadmin does not accept "*" in HPDesk mailnode translation	1600108662	24
OMCHECK	B1600A	00.00	omcheck complains about permissions on database and check files.	1600103432	10
OMEDIT	B1600A	00.00	Some 8-bit chars are not properly displayed by omedit	1600108134	24
OMLOCKMGR	B1600A	00.00	Daemons are started but don't process any messages.	1600103358	6
OMOFF	B1600A	00.00	omon and omoff can appear to hang when CPU loop on the HP 9000.	1600103408	8
	B1600A	00.00	The usage errors for omon and omoff are syntactically incorrect	1600105270	13
OMON	B1600A	00.00	omon and omoff can appear to hang when CPU loop on the HP 9000	1600105408	8
	B1600A	00.00	The usage errors for omon and omoff are syntactically incorrect	1600105270	13
OMSCAN	B1600A	00.00	omscan produces inaccurate number of kilobytes for each user	1600106385	21
OMSHOWLOG	B1600A	00.00	Usage error message for omshowlog inconsistent with man page & omshowlog	1600105346	16
OMSTORE	B1600A	00.00	omstore MAN page does not fully document openmail data restore process	5000550756	28
OMVERS	B1600A	00.00	omvers checks the n-computer message catalogs instead of checking $LANG	1600106070	20
OM RECORD	B1600A	00.00	Setting OM_R variable fails to redirect omadmin commands to file	1600108696	24
OUTPUT	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO8859/1	1600105791	19
PATCHED	B1600A	00.00	Some 8-bit chars are not properly displayed by omadmin	1600105080	12
	B1600A	00.00	omadmin doesn't have single line function key labels for vt100 & vt220s	1600105387	17
	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO8859/1	1600105791	19
	B1600A	00.00	Function keys in omadmin are displayed badly if TERM is corrected.	1600106054	20
	B1600A	00.00	"Back-end" admin commands always o/p 8-bit chars in ISO8859/1	1600106849	22
	B1600A	00.00	Printed ouput from 'omadmin' does not treat 8-bit chars correctly	1600106856	23
PC	B1600A	00.00	Unix gateway does not map host name correctly on reply	5000538389	26
PROCESS	B1600A	00.00	Ack on message from PC Advmail to Desk user with name >26 chars errors	1600105296	14
SCREEN	B1600A	00.00	Usage error message for omshowlog inconsistent with man page &omshowlog	1600105346	16
SERVICE	B1600A	00.00	Screen output from omadmin that doesn't occur via JAM is in ISO8859/1	1600105791	19
SERVICE ROUTER	B1600A	00.00	Usage error message for omshowlog inconsistent with man page & omshowlog	1600105346	16
	B1600A	00.00	Recipient fields in an X.400 delivery report can contain illegal values	1600106120	21
TERMINAL	B1600A	00.00	Large message sent to Openmail lost without trace	5000550467	27
TERMINALS	B1600A	00.00	Tight CPU loop stopping terminal over LAN if in compose editor.	1600103309	5
UNIX GATEWAY	B1600A	00.00	omadmin doesn't have single line function key labels for vt100 & vt220s	1600105387	17
	B1600A	00.00	Messages from unix mail to Desk. via OpenMail sometimes do not arrive	1600105304	14
	B1600A	00.00	X.400 names with initials but no forename are incorrectly mapped -> unix	1600108803	26
	B1600A	00.00	Large message sent to Openmail lost without trace	5000550467	27

- OPENMAIL/X.400 -   SSB ISSUE DATE: 10/09/90

Keyword	Product number	uu.ff	Description	KPR number	page
*********none*********	B1600X4	00.00	X400 Interface insisting on OR name in p2.ORdescriptor	1600107334	29
	B1600X4	00.00	OpenMail/X.400 left't files in iq.	1600108068	30
	B1600X4	00.00	Timestamps generated by mappers had an offset that was wrong by 1 hour	1600108191	30
	B1600X4	00.00	Outmapper insists on ORNames being present in IPMsgIds (Ack Ids)	1600108217	31
	B1600X4	00.00	X.400 PDU with binary bodypart encoded as plain Octet string is rejected	1600108225	31
	B1600X4	00.00	X.400 PDU rejected, if Binary bodypart is sequence of Octet strings	1600108233	32

CUMULATIVE KEYWORD INDEX

- OPENMAIL/X.400 -   SSB ISSUE DATE: 10/09/90

Keyword	Product number	uu.ff	Description	KPR number	page
*********none*********	B1600X4	00.00	Outmapper fails while trying to create OpenMail NonDeliveryNotification	1600108241	32
	B1600X4	00.00	X.400 out mapper not encoding numerical country codes correctly	1600109215	32
	B1600X4	00.00	Null ADMDs and PRMDs cause problems in ORNames for X.400 mappers	1600109223	33
	B1600X4	00.00	X.400 Mappers do not support NBS/COS Special Character Encoding for DDAs	1600109330*	2
ERROR MESSAGE	B1600X4	00.00	The X.400 error messages are in the wrong part of the PSS	1600105163	29
GATEWAY	B1600X4	00.00	X.400 interface rejects incoming DeliveryReports if no IntermediateTrace	1600106278	29
X.400	B1600X4	00.00	The X.400 error messages are in the wrong part of the PSS	1600105163	29

KPR #: 1600109264 Product: OPENMAIL   B1600A   00.00

Keywords: DESK GATEWAY

One-line description:
Desk gateway rejects text lines greater than 152 characters

Problem:
This problem is only found in the HP Desk Gateway patch
version A.00.00.07. The revised dscopy transport detects
file transfer problems by checking dscopy's stdout for
any output. It cannot tell the difference between a warning
and a 'real' error. Dscopy, by default will truncate text files
with records longer than 152 characters and generate a warning.
The gateway interprets this warning as a potential problem
and aborts the transfer. The transfer gets re-tried for 3 days,
then the message is returned to the sender.

Fix information:
This problem is fixed in OpenMail release A.00.01. Dscopy
is no longer configured to truncate text file records to
any length. Instead the desk gateway configuration program
'omconfdsk' may now be used to enable text file folding at
a record width set by the OpenMail administrator.

KPR #: 1600109330 Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
X.400 Mappers do not support NBS/COS Special Character Encoding for DDAs

Problem:
This fix is required to support the @ character found in DDAs
when a user sends from a remote Unix node to OpenMail then onto X.400.
The character does not get passed and causes problems in the OutMapper.

If other characters outside the printable character set
are required in DDAs this enhancement will be required.

Fix information:
Fix was made to the in and outmappers.
Code changes:
   Inmapper   - consl.c
   Outmapper   - orn.c
   Common library - created new file called ps_to_ascii.c

KPR #: 1600105007   Product: ADVMAIL FOR TERMINAL B1601A   00.00

Keywords: WASTEBASKET   FOLDER

One-line description:
Folder functions within the wastebasket do not work properly

Problem:
If you enter the waste basket, press "FILE", "CREATE Folder", do not type a name, then "MOVE to folder" the message is removed from the screen display, even though it is not deleted.

Cause:
The term.ui program may not be dealing with the waste basket as a special case correctly

KPR #: 1600105544   Product: ADVMAIL FOR TERMINAL B1601A   00.00

Keywords: ADVMAIL

One-line description:
^L does not refresh function key labels - they are removed

Problem:
^L does not refresh function key labels (they are removed)

Cause:
Problem caused by JAM, function key labels are not supported properly on other than HP terminals. JAM does not really know the labels are there on a VT100/220

Fix information:
JAM internally traps the refresh key, it can be trapped only in some cases. Keys are now refreshed correctly where data entry is not required. It will now also refresh keys on an HP terminal under these circumstances.

KPR #: 1600105809   Product: ADVMAIL FOR TERMINAL B1601A   00.00

Keywords: ADVMAIL   SCREEN   OUTPUT
          PATCHED

One-line description:
Screen output from advmail that doesn't occur via JAM is in ISO8859/1

Problem:
Screen output from advmail that does not occur via the JAM interface is always in the ISO8859/1 char-set. This occurs in 2 known places, the 'Type exit to return' message when breaking out to the shell, and the termination message. (Only affects localised version).

Cause:
simple ISO???? -> ROMAN8 mapping needs to be added where needed.

Fix information:
Text printed outside of JAM is now converted where needed.

- ADVMAIL FOR TERMINAL -

KPR #: 1600106963   Product: ADVMAIL FOR TERMINAL B1601A   00.00

One-line description:
Internal error 401 occurs when using shift/home after a re-order.

Problem:
An internal error, number 401, code: 0, occurs when shift/home is used after re-ordering a folder in the filing cabinet. This only occurs when a there are too many folders in the filing cabinet to be displayed on one screen, and the folder being repositioned is on the second or subsequent screen, and is moved to a position on a previous screen.

KPR #: 1600107698   Product: ADVMAIL FOR TERMINAL B1601A   00.00

Keywords: ADVMAIL

One-line description:
Only "End of Item" line displayed on message entry

Problem:
Very occasionally when reading a message, only 'End of Item' is displayed even though the message exists. On re-reading the message it is displayed correctly. A timing problem exists between the U/I process and the Item Browser process.

KPR #: 1600107797   Product: ADVMAIL FOR TERMINAL B1601A   00.00

One-line description:
If BCC is a Public DistList then recips. do NOT see name when msg. read

Problem:
If a Public Distribution List name is used as a BCC recipient then the PDL recipients do not see themselves (ie. do not see the PDL recipient) on the Distribution List when the message is read. This occurs because the message browser does not currently have access to the expanded PDL and therefore can not determine whether any individual user should be able to see the BCCed PDL recipient name.

- ADVMAIL FOR TERMINAL -

KPR #: 1600103309   Product: OPENMAIL   B1600A   00.00

Keywords: LOOP   TERMINAL

One-line description:
Tight CPU loop stopping terminal over LAN if in compose editor.

Problem:
If either the terminal interface or the administration interface
receive and end-of-file from their input, they will go into a tight
CPU loop.

This seems to happen is when you have a data-switch that doesn't send
a "hang-up" signal before it drops the line, or when you just get rid
of a LAN connection before you have come out of the terminal interface
or the administration interface.

You may see this problem when you do an "omstat -s" or "omstat -q" and
they appear to hang. Or, "omon" and "omoff" may appear not to work.
The "omon" and "omoff" problem is detailed in SR 1600-103408.

To see if you are having this problem, type:

     ps -ef

and look for "term.ui" or "admin.prog" or "compose.edit" programs that
have used more than about 30 minutes of CPU.

The amount of CPU that a process has used is given by field 7 of the
"ps" output. The name of the program is given in field 8.

Cause:
The problem is due to the software ignoring end-of-file. The software
keeps reading until it gets a character. When an end-of-file is hit,
the software simply attempts the read again. Each repeated read will
get end-of-file, resulting in the software "looping".

Temporary solution:
You must kill the programs that are using up CPU. Log on as root and
type:

     kill -1 PID

where PID is the PID of the program you identified as specified in the
"submitter text". The PID of the process is given in field 2 of the
"ps" output.

There is a script called "ommon" that will look for such situations.
If you type "man ommon", it will tell you about this script.

If you're using a data-switch you should reconfigure it to issue a
"hang-up" signal before dropping lines.

If you are using LANs, then don't drop the LAN connection before coming
out of the terminal and administration user interfaces.

Fix information:

                              - OPENMAIL -

KPR #: 160010 3309 **CONTINUED**

EOF is now correctly handled.

Duplicate Service Requests: 1600105049

KPR #: 1600103317   Product: OPENMAIL   B1600A   00.00

Keywords: DESK GATEWAY

One-line description:
Non-delivery forwarded from OM to HP Desk to OM gets corrupted.

Problem:
If you forward a non-delivery notification from your OpenMail Intray
into HP Desk and then back into OpenMail, you will get an error when
trying to read the forwarded non-delivery.

Cause:
The record size of the non-delivery is filled to 256 because it is
binary. This happens when going from OpenMail to HP Desk. When it
comes back from HP Desk, OpenMail treats it as corrupt because
there are trailing nulls.

Fix information:
The Desk gateway now makes use of OpenMail converters to
map OpenMail non-delivery and trace parts to ROMAN8 text

KPR #: 1600103358   Product: OPENMAIL   B1600A   00.00

Keywords: OMLOCKMGR   DBVISTA

One-line description:
Daemons are started but don't process any messages.

Problem:
When any one of the OpenMail daemons accesses the database, it does so
through a program called "/usr/openmail/bin/omlockmgr". As its name
suggests, this program manages the locking of the database.

When you start an OpenMail daemon, the omlockmgr program must be
running. However, you can kill the omlockmgr program while the OpenMail
daemon is running, and the daemon will not notice.

If another omlockmgr program is started while the OpenMail daemons are
running, they will not "see" the new omlockmgr.

The result is that all calls to the database will hang indefinitely
because they are waiting for a response from a non-existent lock
manager program.

Cause:
The problem is due to the database access routines not detecting
that the omlockmgr is no longer running (or a new omlockmgr process
has been started, which does not know anything about the existing
processes attempting to access the database).

                              - OPENMAIL -

KPR #: 1600103358   **CONTINUED**

Temporary solution:
To verify that you have this problem, type

    omstat -s

This will tell you which services have messages queued up. This will
also tell you when the services where started.

Next, type:

    ps -fe | grep "omlockmgr"

If the start time/date of the omlockmgr is after the start time/dates
of any of the OpenMail services, then you will need to "fix" this
occurence of the problem.

Note that the start times in both "omstat" and "ps" change format. If
the service/program was started today, then the time is given. If
started before today, then the date is given. Thus, if the dates
against the services in "omstat" are the same as the start date of
"omlockmgr", the "omlockmgr" program may have been started after the
OpenMail services.

To fix this occurence of the problem, the first step is to get the PIDs
of all of the OpenMail processes. Type :

    ps -fu openmail

and note down the PIDs (the number given in the second field) of the
following programs:

    service.router
    local.delivery
    test.server
    error.manager
    desk.in
    desk.out
    desk.mon
    desk.link
    mon3000

Also, type

    ps -fu root | grep "unix.out"
and
    ps -fu root | grep "xport.out"

and note the PIDs for these processes.

Next, you must kill all of these processes:

    kill -15 PIDS

where PIDS is the list of PIDs you have built up from the "ps"

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KPR #: 1600103358   **CONTINUED**

commands.

To restart the daemons, type:

    omon -s all

KPR #: 1600103366   Product: OPENMAIL   B1600A   00.00

Keywords: ADVMAIL

One-line description:
Cant put acks on a message forwarded from your pending tray.

Problem:
If you forward a message in your pending tray and try to set acks on it,
you get error "OM.UI 9998" when you mail the message.

Cause:
Whenever you put an ack on a message in your terminal interface, the
pending tray is opened and a copy of the message is put into it.

The terminal interface doesn't check to see if you are already in the
pending tray, and just opens it anyway. This fails because the
pending tray is already open -- you are in it !

Temporary solution:
Once you get the OM.UI 9998 error, check to see what is logged in
the OpenMail log file. Do this by typing:

    omshowlog -s term | more

You should see details about an error:

    [OM 3420] A container can't be opened twice by the same process.

To set acks on a forwarded message which is in your pending tray, go
into the pending tray. Select the message and hit the "forward" key.
Type in your forwarding text as you would normally. Set the ack on the
message and then hit the "hold" key.

This will copy the message to your "outtray". Go into your outtray and
hit the "mail" key.

Fix information:
The terminal user interface code has been corrected.

Duplicate Service Requests: 160010635l

KPR #: 160010340B   Product: OPENMAIL   B1600A   00.00

Keywords: OMON   OMOFF   HANG

One-line description:
omon and omoff can appear to hang when CPU loop on the HF 9000.

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KPR #: 1600103424 **CONTINUED**

The heading line is produced seperately.

KPR #: 1600103432   Product: OPENMAIL   B1600A   00.00

Keywords: OMCHECK

One-line description:
omcheck complains about permissions on database and check files.

Problem:
"omcheck", the installation checking program, complains about the permission on files in /users/openmail/release.sys/db/* and in /users/openmail/check/dist.*.

Cause:
/etc/update on version 7.0 of HP-UX has a defect that causes it to lose write permission for "group" and "other" during installation.

The files that omcheck reports are copied from their installed position to a working area. The permissions on the working files are changed by the installation script.

So, the files that omcheck complains about are not used by a running version of OpenMail.

Fix information:
The next release of OpenMail should contain the fix. The customize script for the OM_CORE fileset resets the permissions of the affected files so they are not reported as being in error.

KPR #: 1600103457   Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN

One-line description:
Add 2 users in omadmin, 2nd sets the password of the first.

Problem:
If you add a user in "omadmin" and give them a password, and then add another user, the second user will get the password of the first user added.

Cause:
The password field when adding a user in "omadmin" is "non-display".
When you have finished adding one user, all fields remains as they were. Because the password field is "non-display" you don't notice that it has something in it.

Temporary solution:
When you add a user in "omadmin" and give them a password, if you want to give the next user no password, tab into the password field and type in eight spaces.

Note that users can add their own passwords from the terminal and FC user interfaces. You could therefore give people no password, and let

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KPR #: 1600103408 **CONTINUED**

Problem:
"omon" and "omoff" can appear to hang when a process on the HP 9000 is in a tight CPU loop.

Cause:
The OpenMail background daemons like "service.router" are run with a nice value of 19. In order to get the daemons into the "nice"d state, the program the fires them off is also run with a nice value.

If there is a tight CPU loop on your system, the startup programs will move very slowly. Because things are moving so slowly, "omstat -s" thinks that the daemons have "aborted".

Because the daemon's states are "aborted", you can do another "omon".
This "omon" also goes very slowly, so its state shows as "aborted". So, you can do another "omon", and so on.

Temporary solution:
To find out if you are having this problem, do an "omstat -s". If the omstat gives the state of the OpenMail services as "aborted", type:

     ps -ef | more

If you see the processes for the services that are supposed to be aborted, you know that they are just taking a long time to get going.
A list of processes verses service names is contained in the "man" page for openmail(5). To see this man page type:

     man 5 openmail

Look in the "ps -ef" output for a process that is using an extraordinary amount of CPU. You will need to kill this process.

KPR #: 1600103424   Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN

One-line description:
Title half way down output with version listing to the printer.

Problem:
If you print the OpenMail version from omadmin, you will see the heading line

     Service Name   Version   Patch

half way down the listing.

Cause:
The output from the omvers command is sorted before being output to the printer. Because the WHOLE output is sorted, the title is moved to the middle of the output.

Fix information:
The omvers command no longer puts out the heading line, so it doesn't get sorted with the rest of the output.

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KPR #: 1600103457 **CONTINUED**

them set their own.

You can see if a user has a password either by selecting the user and selecting the "display user" action from "omadmin", or by using the "omshowu" command in the shell. If you type:

    man omshowu

this will give you details of the omshowu command.

Fix information:
The second user getting the password of the first is in fact the correct behavior, because an administrator might want to add many users, passwording them all to prevent them logging on until authorised.
However, as this behavior is a probable source of confusion, whenever the cursor is in the "Name" field of the add user screen, a message warning the administrator that the password doesn't get changed between adding users is now displayed.

KPR #: 1600103499 Product: OPENMAIL   B1600A   00.00

Keywords: ADVMAIL

One-line description:
Delete part of message to be sent, get "Internal Error 5001".

Problem:
If you create a message and compose some text, then include a file, then delete the next part and try to mail a message, you get an "Internal Error 5001".

Cause:
The terminal interface builds up a list of the parts of the message that you are creating. If you delete any part of this message, the list is not updated. When you go to mail the message, the list does not correspond to the parts that are really present, and the terminal interface gives out the "Internal Error 5001".

Temporary solution:
After the Internal Error 5001, advmail will stop. If you go back into Advmail and go into your Outtray, you can mail the message without any problems.

Fix information:
The Terminal user interface code has been corrected.

KPR #: 1600103531 Product: OPENMAIL   B1600A   00.00

Keywords: ADVMAIL

One-line description:
Wrong error message if edit non-writable file in "configuration" area

Problem:

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KPR #: 1600103531 **CONTINUED**

You enter the text editor from the "configuration" screen of the terminal interface. You opt to edit a file that you can't write to. You then specify one to which you can write. You edit the second file and save it. The "advmail" status line reads "Selected file name cannot be written". The file has been saved, however.

Cause:
Error status from non-writable file appears not to be being cleared

KPR #: 1600105080 Product: OPENMAIL   B1600A   00.00

Keywords: PATCHED

One-line description:
Some 8-bit chars are not properly displayed by omadmin

Problem:
Some 8-bit characters are converted to a space when displayed by omadmin.
This happens for text that is derived from the back-end programs and then displayed in a field, and also for softkey labels.

Cause:
The software didn't correctly handle characters with the high bit set.

Fix information:
The omadmin program has been modified to circumvent this problem.

This is fixed in patch release A.00.00.01

KPR #: 1600105171 Product: OPENMAIL   B1600A   00.00

Keywords: DESK GATEWAY   ACKNOWLEDGEMENT

One-line description:
Reply ACKS set on messages from Desk to OpenMail are not satisfied.

Problem:
Reply acks on messages sent from HP Desk to OpenMail, do not get satisfied.

In fact, the reply appears as a simple message. There is no indication to the desk user that the message is actually a reply.

Cause:
At the time OpenMail released, the supported version of HP Desk, (B.03.B0) had an fault which prevented OpenMail from sending REPLY type messages into the HP Desk network. To overcome this problem, the OpenMail - HP Desk gateway converts any Replies from OpenMail users into simple messages before they are passed into HP Desk. This prevents reply acks from being satisfied

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KPR #: 1600105296   Product: OPENMAIL   B1600A   00.00

Keywords: ACKNOWLEDGEMENT   ADVMAIL   PC

One-line description:
Ack on message from PC Advmail to Desk user with name >26 chars errors

Problem:
Ack set on message from PC AdvMail user to HPDesk user whose name
length exceeds 26 characters (eg. Maurice ABRAHAM / HP1600/01) will
a -5003 error when the Ack is returned and down-loaded to the PC.
This will happen once per message recipient whose name exceeds 26 chars
but after that the fault is cleared.

Cause:
The error is caused after the Acknowledgement information has been
transfered to the PC and the ACK is being deleted on the host. As
part of the generic delete operation the temporary list is updated.
This should not be done for ACK lists, and an invalid list handle is
picked up if the recipient name exceeds 26 characters, otherwise a NULL
handle is successfully used.

Temporary solution:
The error occurs after the ACK has been processed, it will only
occur once for each long recipient name, so AdvMail will run
successfully if re-entered unless there are more Acks from HPDesk
recipients whose names exceed 26 chars.

Fix information:
Code fixed to deal with the deletion of Full acks properly.

KPR #: 1600105304   Product: OPENMAIL   B1600A   00.00

Keywords: UNIX GATEWAY   DESK GATEWAY   DESK

One-line description:
Messages from unix mail to Desk, via OpenMail sometimes do not arrive

Problem:
This fault concerns mail sent to HP desk recipients, from Unix mail
via OpenMail.

If the desk recipient is addressed, using only a location,
then spurious characters can be placed in
the sublocation and foreign address parts of the recipient address, as
the message passes though the OpenMail - Hp Desk gateway.

eg Smith_John/HpDesk used instead of Smith_John/HpDesk_ma

where HpDesk is the heirarchic location of the HP Desk user John Smith
and ma is his sublocation.

These spurious characters may cause HP Desk to reject the recipient.
The sender of the message would then get a non - delivery report for
the recipient who appears to the sender, to be perfectly valid.

If the sublocation of the desk recipient is specified, then the fault

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KPR #: 1600105171 **CONTINUED**

Fix information:
This problem is fixed in OpenMail Release A.00.01. The
restrictions in the gateway to allow the gateway to
operate with the Hp Desk B.03.B0 gateway intrinsics
have been removed, as the problems that the restrictions
avoided are now cleared with the B.03.R0 intrinsics

KPR #: 1600105197   Product: OPENMAIL   B1600A   00.00

Keywords: DESK GATEWAY

One-line description:
Trailing spaces are removed on binary files sent between OM and Desk

Problem:
If a shar file is sent from OpenMail to HP Desk, and then back to
OpenMail, the file fails to unpack the binary parts due to trailing
spaces being removed.

Cause:
On all messages sent from HP Desk to OpenMail, trailing spaces
are removed. This prevents double spaced text appearing in messages
read using unix mail. A side effect of this is that shar files, in
which spaces at the end of the line are significant are corrupted.

Fix information:
The desk inbound mapper now only strips trailing spaces on lines
longer than 72 characaters. Shar files are thus safe from this
as all important lines are less than 72 chars.

KPR #: 1600105270   Product: OPENMAIL   B1600A   00.00

Keywords: OMOFF   OMON

One-line description:
The usage errors for omon and omoff are syntactically incorrect

Problem:
The usage error messages for omon and omoff are incorrect syntactically.

They show:
Usage: <command> [-d delay] -s service... | -f filename

They should show:
Usage: <command> [-d delay] -s service...
       <command> [-d delay] -f filename

The man page for these commands shows the correct form.

Cause:
The usage error (as displayed) in the message catalog is incorrect.

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KPR #: 1600105312 **CONTINUED**

Temporary solution:
As root do the following :
cd into ~openmail/user
Look for a directory which is owned by the old user.
If there is one, then there should only be one, and its
name should start with u and be followed by 6 alphanumeric chars.
If there isn't one, then cd into ~openmail/user01 and look.
Repeat this, looking in ~openmail/user02, ~openmail/user03,....
until the directory owned by the user is found.
cd into it.
Execute the following find command to change the ownership of
all the files & directories of the user :
find . -exec chown "newowner" {} \;

Fix information:
ommodu now changes the ownership of the u??????? directory.

KPR #: 1600105346   Product: OPENMAIL   B1600A   00.00

Keywords: OMSHOWLOG   SERVICE   PROCESS

One-line description:
Usage error message for omshowlog inconsistent with man page & omshowlog

Problem:
Usage error message for omshowlog implies that a sub-component of a
service can be used as a selection criteria, e.g. -s service[.process]
The man page does not describe the .process option, and specifying one
gives an "Incorrect format for service" error.

The usage error message also implies that the -e and -d options can not
be used together. This is incorrect, and the message should show that
-d may optionally used with the -e option.

Cause:
The problem is due to an error in the usage message given by omshowlog.
The usage error should only refer to -s service (without the [.process]
bit).

KPR #: 1600105361   Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN   MAILNODE

One-line description:
Omadmin can produce "link layer" error when displaying a "*" mailnode

Problem:
In omadmin, go to the "Local Users" screen, select "Show By Mailnode"
action. Enter * for the mailnode. Get "[OM 8005] The mailnode contains
invalid characters" error, or "[OM 8010] the address contains a dot,
which is an invalid character" error.
Then next time the "Local Users" screen is entered, an invalid
list of users is shown.

Cause:

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KPR #: 1600105304 **CONTINUED**

does not show itself.

Cause:
The OpenMail - HP Desk gateway, accesses a translation table when
conversion from OpenMail to Hp Desk mailnodes is performed. If no
translation is found, the first two OpenMail Org Units are parsed as
an HP Desk location and sublocation.

The gateway is not initialising the location and sublocation fields
before a lookup in the translation table is performed. If no lookup
is found and no sublocation was specified then the sublocation will
contain a random string of bytes. This random string can also extend
into the foreign address field of HP desk recipient record.

Temporary solution:
1. Ask the sender to specify the full HP Desk mailnode, including the
   sublocation, not just the location.

2. OR configure translations in the HP Desk Gateway mailnode translation
   table for HP Desk heirarchic mailnodes.

   eg   if 'hpdesk' is a heirarchic mailnode, configure a
         translation as follows, using omadmin:

   OpenMail   HPDesk
   Mailnode   Loc/Subloc
   --------   ----------

   hpdesk   hpdesk

Fix information:
The outbound desk mapper, 'dko.out' was modified. The address mapping
routines were at fault and have been updated.

Duplicate Service Requests: 5000586982

KPR #: 1600105312   Product: OPENMAIL   B1600A   00.00

Keywords: MODIFY   FILE   OMADMIN

One-line description:
ommodu does not change ownership of user's files

Problem:
Changing the unix login of an openmail user using the ommodu command
(e.g. ommodu -o butler -u pete) doesn't change the unix ownership of
his openmail files (such as his "u" directory). This can then cause
problems later.

Cause:
The ommodu program does not check for files that need their ownership
changed. It should change any dependent files (such as their "u"
directory).

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KPR #: 1600105361 **CONTINUED**

omadmin runs back-end programs to actually perform its administration.
To show all users, omshowu -m is run.
omadmin should trap the "*", but doesn't.
So, what happens is that omshowu -m * is run, and of course
the * gets expanded to the names of all of the files in the
current working directory.....

Temporary solution:
If you want to get a list of users at all addresses on the
machine, use "all" instead of "*".
If you do use "*" and mess up the local users screen, then
it can be restored by (from the local users screen):
1) hitting the "Action Menu" softkey,
2) Select Show by MNode
3) When the Define Mailnode window appears, hit Clear Line,
   and enter "all" as the mailnode, and press Perform Query.

Fix information:
The address field passed onto the back-end program is now quoted
to prevent its expansion by the shell.

KPR #: 1600105379   Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN   MAILNODE

One-line description:
Bad error displayed for "List Directory by Mailnode" with no mailnode

Problem:
omadmin - List Directory by Mailnode. If no mailnode is specified the
error message displayed is incorrect, it says use '-m "all"' to list all
the names whereas the wildcard character '*' must be used.

Cause:
"*" is allowed because omadmin and omshowdir allow
wildcarding in mailnodes when listing the directory.
The error message generated when nothing is given for the
mailnode to search for is wrong.

Fix information:
If omshowdir is given no mailnode, then it checks to see if it was
called from omadmin to see which error message it should generate.

KPR #: 1600105387   Product: OPENMAIL   B1600A   PATCHED

Keywords: OMADMIN   TERMINALS

One-line description:
omadmin doesn't have single line function key labels for use with
vt100 and vt220 terminal. In all cases the 1st line of the 2 line

Problem:
omadmin does not have any single line function key labels for use with
vt100 and vt220 terminal. In all cases the 1st line of the 2 line

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KPR #: 1600105387 **CONTINUED**

function keys are used. This results in confusing or incorrect labels
appearing when omadmin is used on a vt100/vt220 terminal.

Cause:
The functionality to allow single line function key labels for use
with vt100 and vt220 terminals was not added to omadmin (as it was
to the advmail terminal interface).

Temporary solution:
Whenever possible, use an HP terminal for running omadmin.

Fix information:
omadmin has been enhanced to have single line function keys

This is fixed in patch release A.00.00.01

KPR #: 1600105452   Product: OPENMAIL   B1600A   00.00

Keywords: DESK GATEWAY

One-line description:
If text with control codes is sent from Desk to OM, text is lost

Problem:
If a text containing control codes, eg a formatted TDP file, is sent
from HP Desk to OpenMail most of the text is lost.

Cause:
The problem occurs because DSCOPY copies over the control codes
to the HP-UX machine, and most control codes generated by TDP are
NULL (ascii value 0), which is treated as end of string (line) in
HP-UX/C. This problem will occur with other spool files that contain
NULLs as control code characters.

Fix information:
The inbound desk gateway will now detect lines in text files
that begin with the null char. This character is then replaced
with a space. Other control characters are passed through unchanged.

KPR #: 1600105619   Product: OPENMAIL   B1600A   00.00

Keywords: ADVMAIL

One-line description:
If BCC is an alias name the recipient does NOT see it when reading msg.

Problem:
BCC name in a distribution list is not displayed to that user if the
original BCC name was an alias.

Cause:

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KPR #: 1600105619 **CONTINUED**   B1600A   00.00

When a distribution list is displayed a BCC name is compared with the
name of user browsing the message. If the names match then the BCC
name is displayed, if not then the BCC is not displayed. If the
original BCC name is an alias then the original name in the
Distribution List will not match that of the recipient} so the
recipient will not see his/her name (or an alias of it} when
browsing the message.

KPR #: 1600105791 Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN   SCREEN   OUTPUT
          PATCHED

One-line description:
Screen output from omadmin that doesn't occur via JAM is in ISO8859/1

Problem:
Screen output from omadmin that does not occur via the JAM interface
is always in the ISO8859/1 char-set. This occurs in 3 known places,
the copyright message at the beginning, the 'Type exit to return'
message when breaking out to the shell and the termination message.

Cause:
simple ISO???? -> ROMAN8 mapping needs to be added where needed.

Fix information:
Text printed outside of JAM is now converted where needed.

KPR #: 1600105965 Product: OPENMAIL   B1600A   00.00

Keywords: DESK GATEWAY   CATALOG

One-line description:
Non-delivery text generated by Desk gateway can contain non-Roman8 chars

Problem:
When an OpenMail non delivery report is sent though the OpenMail -
HP Desk gateway, into HP Desk, the report is converted into a
textual message. The text of this message is localisable.

The character set used for localised text is ISO8859/1. The localised
report text is not converted to the roman8 character set used by
HP Desk. The result, the non delivery report text, received by
an HP Desk user IF a localised version of OpenMail is being used,
may well contain incorrect characters.

Cause:
The desk outbound mapper is assuming that the localised non delivery
report text is in the roman8 character set, whereas the localised
text is in fact in ISO8859/1 character set.

Fix information:
A conversion to ROMAN 8 is now performed on the non delivery report
text generated by the gateway

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KPR #: 1600106047 Product: OPENMAIL   B1600A   00.00

Keywords: OMADDDIR   HELP

One-line description:
The omshowdir MAN page references "genaddir"

Problem:
There is a reference to "genaddir" on the last line of the description
section of the "omshowdir" man page. The reference should be to
"omadddir" instead.

Cause:
The man page was written before the name of the product was known.
Once the name of the product was known, the names of the commands
were finalised. However, although most of the man pages, etc, were
updated, the last line of this page was missed.

Fix information:
The text of the man page has been corrected to refer to "omaddir"
instead of "genaddir".

KPR #: 1600106054 Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN   ENVIRONMENT   PATCHED

One-line description:
Function keys in omadmin are displayed badly if TERM is corrected.

Problem:
If 'omadmin' is entered with an illegal TERM environment variable set
then an english-language message is always displayed and when a valid
term-type is entered the function keys in omadmin are displayed badly.

Cause:
omadmin is a shell script which sets up the environment for
the actual administration program, admin.prog.
omadmin should make sure that $TERM is set to somthing valid, but
instead its leaving this for admin.prog to do, which it can't.

Temporary solution:
Make sure that $TERM is a valid value BEFORE running omadmin.
Valid values are : hp hp2622 hp2392 hp2392a HP HP2392 HP2392A
2392 vt220 vt100

Fix information:
The script omadmin has been modified to make sure that $TERM is valid
before it runs admin.prog.

This is fixed in patch release A.00.00.01

KPR #: 1600106070 Product: OPENMAIL   B1600A   00.00

Keywords: OMVERS   CATALOG

One-line description:
omvers checks the n-computer message catalogs instead of checking $LANG

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KPR #: 1600106070 **CONTINUED**   B1600A

Problem:
omvers only checks the message catalogs in the /usr/lib/nls/n-computer directory. Message catalogs in other directories are not checked.

Cause:
Omvers only looks at OpenMail message catalogs in the OM_MESSCATS_DIR directory, which is defined as /usr/lib/nls/n-computer. It ought to either take account of the $LANG variable, or look at all the installed OpenMail message catalogs.

Fix information:
In future versions of OpenMail, omvers will report on all openmail message catalogs, for all languages. The catalogs will be displayed as
language/mc_cat.cat .
instead of
mc_cat.cat
in order for the various catalogs to be identified.

KPR #: 1600106120 Product: OPENMAIL   B1600A   00.00

Keywords: SERVICE ROUTER

One-line description:
Recipient fields in an X.400 delivery report can contain illegal values

Problem:
The PerRecipient fields in an X.400 delivery Report PDU sent out of the OpenMail/X400 system can contain illegal values for the Report Request Bits (Bits 1 and 2). The bits are always cleared to zero, a value marked as 'Not Used' in X.411

Cause:
The problem, is that the OpenMail Service router is not preserving the recipient info fields in the original message. The fields are effectively cleared.

Fix information:
The OpenMail service router has been modified to preserve the recipient info when routing the original message.

KPR #: 1600106385 Product: OPENMAIL   B1600A   00.00

Keywords: OMSCAN

One-line description:
omscan produces inaccurate number of kilobytes for each user

Problem:
The report of disc usage by each OpenMail user given by omscan is inaccurate. Most of a message is attributed to one user, the remaining part of the message is attributed to every other user in receipt of it.

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KPR #: 1600106716 Product: OPENMAIL   B1600A

One-line description:
Temporary files gradually accumulate in the user 'g' directories

Problem:
The temporary files created in the user 'g' directories by Terminal users are never deleted (not even by omscan).

Cause:
The deletion of these files fail because they are treated as User/User files instead of Openmail/User files.

Temporary solution:
Periodically these files must be deleted manually, this can be done by executing the following command while running as root:
find /users/openmail/user/g* -name 'tmp*' -exec rm {} \;

** N.B. only do this when there are no active Openmail users on the system (Terminal or PC). Executing this command as part of the normal omscan script would be a reasonable thing to do.

Fix information:
Code corrected to treat temporary files in the Openmail/User directory as Openmail files when deleting them.

KPR #: 1600106823 Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN

One-line description:
Refresh omadmin screen doesn't refresh softkeys

Problem:
In omadmin, the refresh key does not redraw the softkeys. On a vt100, this has the effect of making any visible softkeys disappear

Cause:
The underlying screen/forms handling package does not refresh softkeys when told to refresh the screen.

Fix information:
Refresh now explicitly redraws the softkeys.

KPR #: 1600106849 Product: OPENMAIL   B1600A   00.00

Keywords: PATCHED

One-line description:
"Back-end" admin commands always o/p 8-bit chars in ISO8859/1

Problem:
'Back-end' admin commands do not convert 8-bit chars to Roman-8 in their output displays.

Cause:
The back-end commands output strings picked up from the messcat

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KPR #: 1600108134   Product: OPENMAIL   B1600A   00.00

Keywords: OMEDIT

One-line description:
Some 8-bit chars are not properly displayed by omedit

Problem:
8 bit characters are not displayed properly on function key labels

KPR #: 1600108662   Product: OPENMAIL   B1600A   00.00

Keywords: OMADMIN

One-line description:
omadmin does not accept "*" in HPDesk mailnode translation

Problem:
omadmin does not allow "*" to be specified in the HPDesk mailnode when
adding a mailnode translation for the HPDesk gateway. The back end
command "omaddmt" does allow the "*" to be specified.

Cause:
The problem is caused by the field checking in omadmin only allowing
alphanumerics and "/". It should also have allowed "*".

Fix information:
omadmin has been modified to accept "*" as well as alphanumerics and
"/" characters.

KPR #: 1600108696   Product: OPENMAIL   B1600A   00.00

Keywords: OM_RECORD

One-line description:
Setting OM_R variable fails to redirect omadmin commands to file

Problem:
The problem is that the setting of the OM_R shell variable is ignored
by /usr/openmail/bin/admin.prog. This is because the omadmin shell
script is explicitly overriding it.

Cause:
The problem is caused by /usr/openmail/bin/omadmin explicitly
setting the shell variable OM_R to $HOME/om_record, which
overrides any value the user may have supplied for the variable.

Temporary solution:
A temporary fix is to edit /usr/openmail/bin/omadmin to either
comment out the lines setting OM_R, or change them to set OM_R to
the value required by the user.

The lines in question are:
OM_R=$HOME/om_record
export OM_R

To comment them out, change them to:

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KPR #: 1600106849 **CONTINUED**

unchanged. These strings reside in the messcat in ISO8859/1 charset
format - they need to be translated into HPRoman-8 if the user is
using an HP terminal.

Fix information:
Script produced for each back-end command that filters output
to produce Roman-8 characters if HP terminal is being used. These
scripts are installed in:
        /usr/openmail/hpbin

This directory needs to be added to an administrator's PATH to
be searched BEFORE /usr/openmail/bin for this fix to work.

This is fixed in a patch available from the global patch machine.

KPR #: 1600106856   Product: OPENMAIL   B1600A   00.00

Keywords: PATCHED

One-line description:
Printed ouput from 'omadmin' does not treat 8-bit chars correctly

Problem:
Printed output from 'omadmin' that contains 8-bit character does not
produce correct printed output.

Cause:
Output for the printer from omadmin can contain 8-bit characters
in the ISO8859/1 charset - these characters need to be translated
to Roman-8.

Fix information:
All printed output from omadmin is piped through the script
omputhdr. This script has been modified to convert ISO8859/1
characters to Roman-8 characters. (There is one exception;
the script 'omscanat' - this script has been modified explicitly.)

This is fixed in a patch available from the global patch machine.

KPR #: 1600107656   Product: OPENMAIL   B1600A   00.00

Keywords: DIRECTORY

One-line description:
X.400 ORNames require that a surname is entered

Problem:
A surname must be entered when entering ORNames that do not have to
contain a Surname. For example when entering a Form 1 Variant 3 or a
Form 2 ORName a surname must entered - this can be confusing since
the actual X.400 ORName does not contain a surname.

Cause:
The surname is required because it is used as a key by
the lookup directory.

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KPR #: 1600108696   Product: OPENMAIL   B1600A

#OM_R=$HOME/om_record
#export OM_R

Fix information:
OM_R will no longer be set in /usr/openmail/bin/omadmin, in future
versions of OpenMail.

KPR #: 1600108720   Product: OPENMAIL   B1600A   00.00

One-line description:
Some 8-bit characters are not displayed on Term U/I function keys

Problem:
This problem is caused by the standard 'isspace' function that
it used by the code that displays the function keys. This
system routine gives an erroneous return that indicates that
some 8-bit characters should be treated as spaces.

Cause:
See Problem text...

Temporary solution:
There is no temporary fix for this problem - apply the patch

Fix information:
Fixed by explicitly checking for space in the affected routines.

Duplicate Service Requests: 1600108704

KPR #: 1600108753   Product: OPENMAIL   B1600A   00.00

One-line description:
Submission date of messages is creation date NOT the mailing date

Problem:
Submission date of message created by Terminal or PC U/Is can
be wrong.

Cause:
The creation date of the message put in the transaction file
is the creation date of the message. It should be the date
at which the TF is created, ie. the mailing time of the msg.

Temporary solution:
This problem will only show up if messages are created and
then kept in the outtray before mailing. This will lead to
incorrect delivery durations being recorded for these msgs.
Ie. the time taken to deliver the message will include all
the time it spent sitting in the OutTray.
There is no temporary fix.

Fix information:
The mailing code has been modified to use the current time
for the CREATE DATE of the message when mailing occurs.

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KPR #: 1600108761   Product: OPENMAIL   B1600A   00.00

One-line description:
PC ASCII files with lines longer than 80 chars are not copied correctly

Problem:
When an ASCII file is transferred as part of a message from LAN
PC Advmail any lines that exceed 80 characters become corrupted
after the 80th character.

Cause:
The host file transfer code for the LAN PC AdvMail does not
transfer any characters after the 80th on a line, 'dirty
store' is picked up instaed.

Temporary solution:
Long lines should be avoided.

Fix information:
Correct the LAN file transfer code.

KPR #: 1600108803   Product: OPENMAIL   B1600A   00.00

Keywords: UNIX GATEWAY

One-line description:
X.400 names with initials but no forename are incorrectly mapped - unix

Problem:
A message sent to unix via OpenMail from an X.400 user with initials
but no forename does not have the senders name mapped correctly. For
example, if the message is sent from "F. BLOGGS", this is mapped to
"BLOGGS_F" (with one _ character) rather than "BLOGGS__F" (with two _s)

The problem can also occur if the sender has a generation identifier
but does not have a forename or does not have initials. For example,
"JOHN ROSS JNR." is mapped to "ROSS_JOHN_JNF" when is should be mapped
to "ROSS_JOHN__JNR".

Cause:
The problem is caused by an error in the unix gateway code suppressing
repeated "_" delimitors when it should only suppress trailing "_"
delimitors.

Fix information:
The unix gateway has been corrected to only suppress the trailing
(redundant) "_" characters.

KPR #: 5000538389   Product: OPENMAIL   B1600A   00.00

Keywords: PATCHED

One-line description:
Unix gateway does not map host name correctly on reply

Problem:
When a message is sent through unix mail, into OpenMail and then back

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KPR #: 5000538389 **CONTINUED**

to unix mail again (e.g. via a public dist list), if the sending unix user's address contains a @, % or !, then the recipient might not be able to reply to the message.

Cause:
The problem is due to the OpenMail unix gateway not converting the special characters @, % and ! to something else (for the sender, etc) when the message is passed to unix mail. The characters should be converted to something else so that the unix mail does not attempt to use these for routing of reply, but instead passes the message back to OpenMail.

Fix information:
The outgoing part of the unix gateway has been modified to map the characters @, % and ! to the strings #a#, #p# and #e# respectively. The incoming part of the unix gateway has been modified to map the strings back again. This is similar to the mapping of other characters that are special to unix mail sender/recipient names (e.g. blank maps to #b#).

KPR #: 5000550467   Product: OPENMAIL   B1600A   00.00

Keywords: UNIX GATEWAY   LOCAL DELIVERY   SERVICE ROUTER

One-line description:
Large message sent to Openmail lost without trace

Problem:
Two problems can occur that result in the loss of a message if OpenMail runs out of disc space.

1. If the OpenMail Service Router runs out of disc space when it is routing a message, some of the content of the message's Transaction File may be lost.

2. If the Service Router, Local Delivery or the Outgoing Transport process runs out of disc space, it attempts to put the message on the #ERROR queue before continuing. However, if it fails to put the message on the #ERROR queue, it will still continue (effectively discarding the message).

Cause:
Problem #1 may occur because the Service Router copies the Transaction File as it "routes" the message, but it doesn't "flush" and "sync" to disc the buffers of the new Transaction File before removing the old Transaction File. If it is possible for the "flush" and "sync" to fail due to lack of disc space.

Problem #2 occurs because of the way the Service Router, Local Delivery and Transport Outgoing processes were written to "continue no matter what happens". This should not be the case if it can result in the loss of messages.

Fix information:
Problem #1 has been fixed by modifying the Service Router to "flush"

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KPR #: 5000550467 **CONTINUED**

and "sync" the new Transaction File before removing the old one.

Problem #2 has been fixed by changing the Service Router, Local Delivery and the Outgoing Transport to terminate (abort) if they fail to process a message AND they fail to put the message on the #ERROR queue.

KPR #: 5000550756   Product: OPENMAIL   B1600A   00.00

Keywords: OMSTORE

One-line description:
omstore MAN page does not fully document openmail data restore process

Problem:
OpenMail will not run after restoring the data according to the MAN pages or the system administrator's manual. After restore, OMADMIN fails with a Vista data base error and will not allow services to be turned on. Restore was performed after the data had been altered so that the enviroment could be restored to a known state.

Cause:
The problem is due to some steps being omitted from the MAN page.

Temporary solution:
Problem was verified on an 835 system and a work around was indentified.
You must perform the following tasks to restore OpenMail data.

1. Shutdown all OpenMail services (use omadmin or omoff)
2. kill the omlockmgr and advmail daemons
3. rm -r /users/openmail (delete all openmail files)
4. cd /
5. cpio -icdmux <filename (to restore openmail from a file)
6. cd /etc
7. omrc (execute openmail start up script)

The only step documented in the man pages or the admin manual was step number 5.

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KPR #: 1600107334   **CONTINUED**

The OpenMail/X.400 Interface rejects an incoming X.400 PDU if the ORDescriptor for the P2.PrimaryRecipient doesn't contain an ORName.

Cause:
The OpenMail/X.400 Inmapper maps the recipients in the P2 portion of the X.400 PDU into the OpenMail distribution list only if the recipient ORDescriptor contains an ORName. However, a P2 ORDescriptor is allowed to contain either an ORName or a FreeFormName; the Inmapper was insisting (incorrectly) on the presence of ORNames in these ORDescriptors, and rejecting the PDUs otherwise.

Fix information:
This fix will be incorporated into the next release. Meanwhile, the OpenMail patch OM000006 will be available, which includes this fix. The problem has been fixed as follows - the Inmapper skips over the P2 Recipient ORDescriptors that don't contain ORNames, instead of rejecting the entire message

KPR #: 1600108068   Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
OpenMail/X.400 left t files in iq.

Problem:
When the outbound mapper is converting OpenMail messages into X.400 PDUs, if it aborts because of an error, it sometimes leaving temporary files lying in the MTA's input queue.

Cause:
This problem occurs because of a programming error in the outbound portion of the X.400 interface, specifically an error in the executable /usr/openmail/bin/x400.out. When processing of a message terminates abnormally (because of an error), in some cases temporary files may be left in the MTA Input Queue (/usr/spool/x400/iq).

KPR #: 1600108191   Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
Timestamps generated by mappers had an offset that was wrong by 1 hour

Problem:
The offsets in the timestamps generated by the mappers were wrong by an hour

Cause:
The mappers used the HP-UX system variable "daylight" to compute whether an hour was to be added/subtracted for Daylight Savings Time. However, the "daylight" variable is always set in places where the concept of Daylight Savings Time exists, whether or not it is in effect at that time of year. An error of one hour thus resulted when Daylight Savings Time went away and Standard time returned.

Fix information:

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KPR #: 1600105163   Product: OPENMAIL/X.400   B1600X4   00.00

Keywords: X.400   ERROR MESSAGE

One-line description:
The X.400 error messages are in the wrong part of the PSS

Problem:
The X.400 error messages are tacked onto the end of the X.400 "solution" part in the problem solving system (omsolve). They should have their numbers put against them in the "detail" section.

Cause:
There is no X.400 option in the "details" section of the Problem Solving System (omsolve). For this reason, the "details" were added to the end of the X.400 text in the "solutions" section. There should really be an X.400 option in the "details" section.

Temporary solution:
If an specific X.400 problem occurs (with a given error number), then look for it in the "solutions" section rather than the "details" section, and continue to page down the text until the text for the particular error is displayed.

KPR #: 1600106278   Product: OPENMAIL/X.400   B1600X4   00.00

Keywords: GATEWAY

One-line description:
X.400 interface rejects incoming DeliveryReports if no IntermediateTrace

Problem:
X.400 interface rejects incoming DeliveryReports that do not have IntermediateTrace in the DeliveryReport Content.

Cause:
TraceInformation is mandatory in the Envelope of a DeliveryReport, but the IntermediateTraceInformation in the Content of a DeliveryReport is optional. The X.400 Interface insisted on both these elements being present in the DeliveryReport, when it should have only insisted on the former. Many other X.400 implementations do not insert Intermediate TraceInformation in the DeliveryReports they generate, and these Reports were thus rejected by the OpenMail/X.400 Interface.

Fix information:
This fix will be incorporated in the next release, but meanwhile, a patch is available which contains the fix - OpenMail Patch OM000002. The problem is fixed in the code by treating the Intermediate TraceInformation in the Content of DeliveryReports as an optional field, so no error is generated if it is not present.

KPR #: 1600107334   Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
X400 Interface insisting on OR name in p2.ORdescriptor

Problem:

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KPR #: 1600108191 **CONTINUED**   B1600X4   00.00

This fix will be incorporated into the next release. Meanwhile, the
fix has been included in OpenMail patch OM000006.
The fix is as follows: The "daylight" variable is only used to tell
if the concept of Daylight Savings exists locally. A different flag,
the tm_isdst flag in the "tm" structure, is used to tell if Daylight
Savings Time is currently in effect, so the offset can be correctly
computed.

KPR #: 1600108217 Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
Outmapper insists on ORNames being present in IPMsgIds (Ack Ids)

Problem:
The Outmapper rejects a message if an ORName is not present in the
IPMessageId

Cause:
The Outmapper checks to see if the OpenMail message it is processing
was created by the Inmapper, in which case it expects the Ack Id to
be encoded the way the Inmapper would have done it, with the IPMsgId
(IDstring + ORName) encoded into the Ack Id string. However, it is
possible that the IPMsgId contained no ORName and only an IDstring,
but the Outmapper isn't geared for this case, and returns an error
when it finds no ORName in the Ack Id.

Fix information:
This problem will be fixed in the next release. Meanwhile, the fix
has been included in the OpenMail patch OM000006.
The fix is fairly straightforward - the OutMapper may look for an
ORName in the Ack Id, but it doesn't complain if it doesn't find one.

KPR #: 1600108225 Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
X.400 PDU with binary bodypart encoded as plain Octet string is rejected

Problem:
Message containing a binary bodypart encoded as a simple Octet string,
was rejected

Cause:
The OpenMail/X.400 mappers use the X.400 Intrinsic functions to read
and create X.400 PDUs. The Intrinsics handle various kinds of bodyparts
including Binary bodyparts. However, they did not handle the specific
case where the Binary bodypart was a plain Octet string, and this
caused the given X.400 message to be rejected.

Fix information:
The fix will be incorporated into the next release. Meanwhile, it has
been included in OpenMail Patch OM000006.
The fix is straightforward - it basically involves the Intrinsics being
modified to handle the specific case where the Binary bodypart shows up
as an Octet string, so the In mapper now accepts the PDU.

KPR #: 1600108233 Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
X.400 PDU rejected, if Binary bodypart is sequence of Octet strings

Problem:
Incoming X.400 Message containing a binary bodypart was rejected,
though other tests with binary files have succeeded in the past.

Cause:
The mappers use functions from the X.400 Intrinsics library to access
the X.400 PDU. The given binary file was encoded as a sequence of
Octet strings, and the Intrinsics didn't handle this case, but
returned an error instead.

Fix information:
The fixed version of the Intrinsics will be used in the next release.
Meanwhile, the fix is available in OpenMail Patch OM000006.
The fix itself simply consists of the Intrinsics being modified to
handle the case where the binary bodypart is encoded as a sequence
of Octet strings.

KPR #: 1600108241 Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
Outmapper fails while trying to create OpenMail NonDeliveryNotification

Problem:
Outmapper fails while creating a Nondelivery notification

Cause:
The Outmapper module involved in generating OpenMail NonDelivery
Notifications had a local and global buffer defined with the same
name, resulting in a situation where the wrong buffer was used
without being initialized. The contents of the buffer were thus
unknown, and ultimately caused the Outmapper to fail while creating
the NDN.

Fix information:
This fix will be incorporated into the next release. Meanwhile, it has
been included in OpenMail Patch OM000006.
The fix simply involves using different names for the local and
global buffers, so their names don't collide, and the correct buffer
is initialized and used by the Outmapper.

KPR #: 1600109215 Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
X.400 out mapper not encoding numerical country codes correctly

Fix information:
Checking of the country code is done now. Changes have been made to the
modules orn.c and wrtcx.c in the outmapper.

KPR #: 1600109223   Product: OPENMAIL/X.400   B1600X4   00.00

One-line description:
Null ADMDs and PRMDs cause problems in ORNames for X.400 mappers

Fix information:
The problem is that the OM configuration held by X4admin represents
a NULL ADMD or PRMD as a underscore (which represents a space). This
has got to be compensated for in the mappers so that correct comparisons
are made. For an incoming ADMD it can be a space or a NULL for the
checking as to whether the name is that of an OM user. For a PRMD
the comparison is for just NULL.

On outgoing stamping of an ORName the ADMD if NULL is encoded as
a single space. If the PRMD is NULL the encoding is that of a NULL.

Code was also changed to do away with the rules that if ADMD is
present that COUNTRY code must also be present. Giving better
flexibility.

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KPR #: 3900009134   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
Man pg XHPSetKeyboardMapping (3X): XComposeStatus should be pointer

Problem:
In the man page description of XHPSetKbdMapInit macro,
the last parameter, status_in_out should be of type XComposeStatus *
(a pointer). The macro passes this value as arguments to
XHPNlioctl which requires a pointer argument.

KPR #: 3900009142   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
man pg XHPNlioctl (3x) arg parameter should be int for some commands

Problem:
The arg parameter for this routine is not always a char *
It varies from command to command. Please check with the documentation
for communicating with the nlio process.

KPR #: 3900009167   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
Manual does not explain how to use -C option (console output)

Problem:
The -C option is in hpterm and xterm to allow programs that direct
their output to "/dev/console" to have that output go to a terminal
emulator window that has been designated to receive console output.
Unfortunately, the documentation and man pages do not offer any hint
on how to set this up.

KPR #: 3900009241   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
man pages for Xt calls do not correspond to actual call

Problem:
try: man -k XtAppCreateShell
and you get the keyword for the call.

Then try:

man -k XtAppCreateShell

and you get "no manual entry for XtAppCreateShell"

Cause:
MIT has truncated or abbreviated file names with no way to equate
the actual manpage name to the file name. In this case XtAppcreateShell
is actually in XtAppCSh and that's what you have to use with the "man"
command. We ALWAYS have a file that is the same name as the manpage and
it either provides the manpage online or tells you what to enter to get
what you want. MIT manpages will have this problem and about all one
can do is look at /usr/man/man3.Z and try to equate manpage to file.

- X DOCUMENTATION ONLY -

Computer Museum

KPR #: 3900009241 **CONTINUED**

Temporary solution:
About all one can do is look at /usr/man/man3.Z and try to equate
manpage to file.

KPR #: 3900009258   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
Online man pages for many of (Motif) widget calls display incorrectly

Problem:
The online man pages for mwm, and some Xt (Toolkit Intrinsics) calls,
and some Xm (the Motif (1.0) library) are display incorrectly.
The man pages for these calls are affected:

mwm.1
Application.3x
Composite.3x
Core.3x
Object.3x
OverrideShe.3x
RectObj.3x
Shell.3x
TopLevelShe.3x
TransientSh.3x
VendorShell.3x
WMShell.3x
XmArrowButA.3x
XmArrowButB.3x
XmBulletinB.3x
XmCascadeBA.3x
XmCascadeBB.3x
XmCommand.3x
XmDialogShe.3x
XmDrawingAr.3x
XmDrawnButt.3x
XmFileSeleA.3x
XmForm.3x
XmFrame.3x
XmGadget.3x
XmLabel.3x
XmLabelGadg.3x
XmList.3x
XmMainWindA.3x
XmManager.3x
XmMenuShell.3x
XmMessageBA.3x
XmPanedWind.3x
XmPrimitive.3x
XmPushButtA.3x
XmPushButtB.3x
XmRowColumn.3x
XmScale.3x
XmScrollBaA.3x
XmScrolledA.3x
XmSelectioA.3x

- X DOCUMENTATION ONLY -

KPR #: 1650079012   Product: X10 WINDOWS   82320A   10.40

One-line description:
Documentation problem; index gives incorrect page number in Xrlib manual

KPR #: 3900007096   Product: X10 WINDOWS   82320A   11.50

One-line description:
XCheckWindowEvent and XCheckMaskEvent calls don't work

Problem:
Both the "XCheckMaskEvent" and "XCheckWindowEvent" cals (in X10) appear
to be disabled. If they are the only method used for acquiring input in
a simple X program, none isever received. They do not appear to detect
any of the input events requested.

Temporary solution:
No workaround.

KPR #: 5000206219   Product: X10 WINDOWS   82320A   05.50

One-line description:
parameter list description for "xtext(3x)" is in error

Problem:
The manual, Programming with Xwindow system, reference page
xtext(3x) is missing the parameter bwidth in the parameter
list. This needs to be fixed.

KPR #: 5000206268   Product: X10 WINDOWS   82320A   05.50

One-line description:
Manual doesn't explain how to pop-up menu from program

Problem:
There is a documentation problem with the Xwindows manual explaining
how to bring up a menu programatically. The Xwindows people are
aware of this problem and are currently fixing the manual. A few hints:
You must do the following calls to bring up a menu programmatically.
XrMenu(mymenu,MSG_ACTIVATEMENU,windowId)
xrMenuItemSelect=XrLEFTBUTTONDOWN; or can use XrRIGHTBUTTONDOWN.
    This call must be made and with one of these two options.
XrMenu(mymenu,MSG_EDIT,&menuEvent) This call makes the active menu
    current.

This needs to be done along with
all the normal preparation for a menu pop up.

I almost forgot to mention that the x,y parameters on where to place
the menu don't work either. The menu will come up where the cursor is.

KPR #: 5000225623   Product: X10 WINDOWS   82320A   05.20

One-line description:
Only get root window with hostnames > 8 characters.

Problem:

                        - X10 WINDOWS -

KPR #: 3900009258   **CONTINUED**

XmSeparatoA.3x
XmSeparatoB.3x
XmText.3x
XmToggleBuA.3x
XmToggleBuB.3x

Cause:
In the raw man files for the calls, there is a source statement
(.so), but there is no corresponding file. After that, output
is garbled.

Temporary solution:
Temporary workaround: via HP Support representative, obtain a copy of
the corrected man pages (they have placed on the Ft. Colling patch
machine), OR
use the printed manual page in the printed manuals.

KPR #: 500053942   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
No documentation is provided on how to use block term mode of hpterm

KPR #: 500054823   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
7.0 Version of Install & Config does not explain set up procedures for X

KPR #: 500054791   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
7.0 Beginner's Guide wrong on pg. 6-2. csh does not use '[' for test

KPR #: 500053131   Product: X DOCUMENTATION ONLY B1161A   00.00

One-line description:
7.0 Documentation example for xmodmap does not work

                        - X DOCUMENTATION ONLY -

KPR #: 5000258749   Product: X10 WINDOWS   82320A   01.00

One-line description:
X doesn't create "pty" entries for use on discless node

Problem:
Customer has X windows rev A.01.00 for the s300, p/n 82320A.

Customer has found that this revision does not support Discless
nodes and is requesting that X windows be enhanced to support
Discless nodes.

Fix information:
Fixed in version A.03.00

Signed off 03/31/89 in release A03.00

KPR #: 5000274225   Product: X10 WINDOWS   82320A   05.50

One-line description:
wxinstall, pre 6.2, will alter and remove related files in /usr/bin

Problem:
Problem: wxinstall and wxuninstall command remove /usr/bin/wmstart.
System Config: 9000/300 HP-UX (Rev. 5.5) X-window(Rev. A.01.00)
                Kanji I/O subsystem (Rev. 5.2)

When the system configuration is like above, "wxinstall" command
remove unexpected files such as /usr/bin/wmstart. "wxinstall" command
replace /usr/bin/wmstart to emulate WINDOW/9000 on X-WINDOW, and
"wxuninstall" command should recover /usr/bin/wmstart from backup of
this file.
      But when user has Kanji I/O subsystem also, this "wxuninstall"
command doesn't recover /usr/bin/wmstart and seems to be removed.

KPR #: 5000300467   Product: X10 WINDOWS   82320A   06.00

One-line description:
XTERM does not generate SIGINT from the break key

KPR #: 5000416461   Product: X10 WINDOWS   82320A   03.02

One-line description:
Install errors on 6.2 and 6.5 when long filenames are enabled

KPR #: 5000427872   Product: X10 WINDOWS   82320A   06.20

One-line description:
XTERM hangs when cutting and pasting a large section of text

- X10 WINDOWS -

KPR #: 5000225623   **CONTINUED**

Requesting a documentation enhancement for installing XWINDOWS on s300
with LAN installed.
Found that the hostname command accepts a name longer than 8 characters
but then truncates it to eight. In /etc/host file names up to 11 charac
ters are valid. This causes a problem with a hostname 9,10, or 11 char
acters. The truncated hostname does not match the entry in /etc/hosts,
therefore X does not come up.
When xstart is executed the grey background with X in middle appears,
nothing else. Once the entry in /etc/hosts was cut down to 8 characters
to match hostname, X came up properly.

KPR #: 5000228676   Product: X10 WINDOWS   82320A   05.50

One-line description:
xterm does not recognize Backspace key when using $HOME/.Xkeymap file.

Problem:
If you use keycomp(1x) on the default keymapping file that comes with
the system, /usr/lib/X/Xkeymap.default, and place the output in
$HOME/.Xkeymap, xterm(1) behaves differently. It does not recognize
the Backspace Key at the top right of the keyboard.

Please change /usr/lib/X/Xkeymap.default so that it reflects what's
compiled in to xterm(1).

KPR #: 5000240184   Product: X10 WINDOWS   82320A   05.05

One-line description:
Typos in "Programming with the X Window System" manual.

Problem:
In "Programming with the X Window System" manual dated 6/87 (82320-
90001), under "OVERVIEW" section, page 1-20 :

Line 2:   XrSetRect(&windowData,windowRect,50,50,400,200);
  should be: XrSetRect(&windowData,windowRect,50,50,400,200);

Line 3:   windowData.foreTile - BlackPixMap
  should be: windowData.foreTile - BlackPixmap

Line 4:   windowData.backTile - WhitePixMap
  should be: windowData.backTile - WhitePixmap

KPR #: 5000253872   Product: X10 WINDOWS   82320A   05.50

One-line description:
CreateTTYWindow call doesn't work w/ release 5.5

Problem:
The Xwindows function Xtty(3X), CreateTTYWindow, does not work in hpux
5.5. It used to work in hpux 5.3 on the 9000/350.

Duplicate Service Requests: 5000410100

- X10 WINDOWS -

KPR #: 3900007799   Product: X11 800 ONLY 3.0/3.1 B1155A   B3.00

One-line description:
SRX combined mode rendering problems, images listed 1st in screens file

Problem:
Assume the following configuration:

TSRX display (HP 98730/98731)
3 plane overlay device = /dev/ocrt0)
Image plane device = /dev/crt

The following X0screens entry will result in improper rendering in the overlay planes:

/dev/crt /dev/ocrt0

This is due to the display drivers inability to determine the overlay plane configuration from the image planes.

Symptoms include generally incorrect appearance for most clients running in the overlay planes.

Temporary solution:
Workaround:

List the overlay plane device first. For example, the following X0screens entry would correct the behavior:

/dev/ocrt0 /dev/crt

KPR #: 3900007807   Product: X11 800 ONLY 3.0/3.1 B1155A   B3.00

One-line description:
With hpterm in pointer blank mode, the pointer blanks on shift & meta

Problem:
When run on the s800 with pointer blank mode on, hpterm will blank the pointer when noncharacter keys are pressed, such as return, shift, extend. This is due to a lack of "return(False);" at the end of the ProcessKeyInput function.

KPR #: 3900007815   Product: X11 800 ONLY 3.0/3.1 B1155A   B3.00

One-line description:
The Fortran bindings don't return a function pointer correctly

Problem:
On the series 800, a function pointer is not returned properly by the Fortran bindings. The following program should print the address of the subroutine "fixit":

```
include 'Xf/sfalias.h'

program test
include 'Xf/Xflib.h'
external fixit
```

KPR #: 3900007815   **CONTINUED**

```
integer*4 pfi,ppfi

ppfi = XfCreate(XFT_xrPFI)
if (.not. XfInsert(ppfi,1,fixit)) call error
if (.not. XfExtract(ppfi,0,pfi)) call error
print *,pfi
if (.not. XfDestroy(ppfi)) call error
end

subroutine fixit
return
end

subroutine error
print *,'Error'
return
end
```

Temporary solution:
Pass an index of 1 rather than 0 in the call to XfExtract.

KPR #: 3900007823   Product: X11 800 ONLY 3.0/3.1 B1155A   B3.00

One-line description:
X Server defaults to using /dev/crt, should be /dev/crt0 on s800

Problem:
If no /usr/lib/X11/X0screens file exists, the X Server attempts to open the device "/dev/crt". This file does not exist on S800 systems.

Cause:
Server has the wrong default file name.

Temporary solution:
Set up a correct /usr/lib/X11/X0screens file, containing:

/dev/crt0

KPR #: 3900007831   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
In hpterm, pastes of >-512 chars drop data (s800 only).

KPR #: 3900007856   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
All special properties have parsing problems in xfc.

Problem:
The validity of data specified for special properties is not checked by xfc.

Temporary solution:
Workaround:

KPR #: 3900007914 **CONTINUED**

Workaround:
By putting some text in the original file everything works O.K.

KPR #: 3900007922   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
icon over save button in save view in hpwm. Both get select signal.

Problem:
icon was over the save button on a fileview. I doubleclicked to
deiconize. The icon deiconized but the button beneath was selected as
well. Fortunately it is a nondamaging request. This is really a bug in
hpwm. The bug is that after a double click to deiconize, the release
event is making it through to the window underneath. Since the double
click is "owned" by the window manager, it shouldn't allow it to be
passed to an application (this requires some sort of grab, I think).
Hpwm carries out the double-click action when it receives the second
button down event. The second button-up event is not consumed by hpwm.

Temporary solution:
Change your selection for the button to be btn1Down rather than btn1Up.

KPR #: 3900007930   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
hpwm interactive placement when mouse is busy - window (0,0) can't move

Problem:
When hpwm has interactive placement on, if a window appears while the
mouse button is down, hpwm puts the top left corner of the window at
(0,0). Unfortunately, the title bar is hidden, so the gadget to move
the window cannot be reached. I have to kill the window and start over.

Temporary solution:
No workaround.

KPR #: 3900007948   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
"<Btn1Up> title f.raise_lower" only does f.raise in hpwm.

Problem:
The following bindings for f.raise_lower work:

```
<Key>Select         window|icon      f.raise_lower
<Btn1Up>            icon             f.raise_lower
Meta<Btn1Up>        icon             f.raise_lower
Menu DefaultSystemMenu
{
  "Raise/Lower"     f.raise_lower
}
```
The following only execute f.raise:

```
<Btn1Up>            title      f.raise_lower
```

                              - X11 800 ONLY 3.0/3.1 -

KPR #: 3900007856 **CONTINUED**

The user must ensure that special property data is correct.

KPR #: 3900007864   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Bitmap with-nodashed, then do invert all results in lines becoming dots

Problem:
Using bitmap with -nodashed, then do invert all results in lines
becoming dots.

If bitmap is started with the -nodashed option and the user then
specified 'invert all', the solid lines become dots.

Temporary solution:
No workaround.

KPR #: 3900007880   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
hpwm title remains pushed in shen concurrent interact. place is done

Problem:
If the title is already pushed in when a concurrent interactive place is
done, the title will not pop back. This is a cosmetic defect.

Temporary solution:
Workaround:
Repaint the screen.

KPR #: 3900007898   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Hpwm.man says f.refresh_wil actis like f.refresh in root context.

Problem:
The man page incorrectly states that f.refresh_win acts the same as
f.refresh in root context.

Temporary solution:
No workaround.

KPR #: 3900007914   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Textedit widget created with empty file, change to full file, hang

Problem:
I have a widget based mail program. If I create a textedit widget that
has a sourceType of XwdiskSrc and file that is empty and then I change
the parameters in a callback to point to a non empty file my program
hangs.

Temporary solution:

                              - X11 800 ONLY 3.0/3.1 -

KPR #: 3900007948 **CONTINUED**

```
    Meta<BtnlUp>     title     f.raise_lower
    Meta<BtnlUp>     window            f.raise_lower
```

Temporary solution:
No workaround.

KPR #: 3900007955   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Unexpected window position with negative geometry co-ordinates.

Problem:
There is a general problem with xlib when negative geometry coordinates are used. This problem can be exhibited when using hpwm or some of the clients.

Temporary solution:
No workaround.

KPR #: 3900007963   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
XtNtitlePosition defined differently for 2 different widgets

Problem:
The resource XtNtitlePosition isdefined differently for 2 different widgets:

```
    Cascade - type int
        uses XwTOP, XwBOTTOM or XwBOTH

    TitleBar -
        type int
        seems to use numbers different from the enum
        values above
```

Temporary solution:
No workaround.

KPR #: 3900007971   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
type converters in libXw don't generate warning on bad conversions

Problem:
In tracking another problem, I discovered that some of my resources were illegal in my app-defaults. The converter functions are supposed to generate warnings when illegal values are specified, but did not. In particular, I had specified something like:
*StaticText.Gravity: False

instead of giving it a real value. It failed to tell me that False was not a legal value for gravity.

Temporary solution:

KPR #: 3900007971 **CONTINUED**

No workaround.

KPR #: 3900007989   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
TextEdit.h: uses defines _XtTextEditPrivate_h instead of _XwTextEdit...

Problem:
To prevent multiple inclusion, ifdefs and defines were added to the header files. TextEditP.h uses ifdef _XtTextEditPrivate_h and define _Xt... to prevent multiple inclusion instead of using the proper _Xw prefix. This will only cause problems if an application defines _XtTextEditPrivate_h somewhere (which is very unlikely). But for consistency sake it should use the _Xw prefix.

Temporary solution:
No workaround.

KPR #: 3900007997   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
BackgroundTile resources not properly propagated

Problem:
If the resource file contains:
*BackgroundTile: 50_foreground
*StaticText.backgroundTile: background

the list widget comes up with very strang defaults. The static text entries are correct (solid) but the row column manager underneath is tiled. The bulletin board manager is solid again (so the list manager window has an apparent random pattern of solid and tile). The correct values would have been for the bulletin board to use the same background as the row column, but what I really wanted to set was everything solid but the scrollbar.

To fix the problem, I added:

*List*BackgroundTile: background
*List*ScrollBar*BackgroundTile: 50_foreground

but the problem is the second resource is ignored. It should be possible to set subresources for the scrollbar color and tile. Either that, or the resources need to be made available at the manager level with something like vsbBackgroundTile, etc.

This is actually a problem with ScrolledWindow as well.

Temporary solution:
No workaround.

KPR #: 3900008003   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
multiple traversal highlights can sometimes appear

Problem:
I have some code which pops up a transient shell and calls XtSetKeyboardFocus(). It then pops down the transient shell and later pops it up, again setting the focus. If the user changes the kbd focus before popping down the shell (dialog box), then when the box reappears, both highlights are sometimes visible I think when no intervening management requests come in, but the focus is correctly placed in the one on which XtSetKeyboardFocus() was last called.

Temporary solution:
Workaround:
I can work around this by calling XtSetKeyboardFocus(popup_shell, None) when I pop down the box.

KPR #: 3900008011   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
SWindow: horizontal scroll bar Y resource always returns 0 on getvalues

Problem:
None

Temporary solution:
None

KPR #: 3900008029   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
monochrome Z format image handled incorrectly in 'xpr' and 'xwd2sb'.

Problem:
Xpr & xwd2sb incorrectly handles monochrome images generated in ZPixmap format when the image is packed one bit per pixel. This due to a defect in the "Z_image_pixel" function contained in the x2jet.c file.

Temporary solution:
Workaround:
Use the -xy command line option when generating the image via "xwd". This forces the image to be dumped in XYPixmap format which is handled correctly by xpr.

KPR #: 3900008037   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
xwcreate indicates an invalid background pixel when using TSRX display.

Problem:
xwcreate displays a wrong error message and exits if pixel number is specified for the background. This happened when using a TurboSRX

- X11 800 ONLY 3.0/3.1 -

KPR #: 3900008037   **CONTINUED**

display in 24 plane mode in the image planes.

Temporary solution:
Workaround:
Use color names when specifying background.

KPR #: 3900008045   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
In xpr -trailer string trncated by 1 char when -append -noff spec. after

Problem:
None

Temporary solution:
Workaround:
Simply add an extra space to the end of a trailer string if -append and -noff is to be used after it.

KPR #: 3900008052   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
xwcreate does not give an error for exceeding window count.

Problem:
Xwcreate will not create window if wondow count is exceeded and does not give an error message.

Temporary solution:
No workaround

KPR #: 3900008060   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
-depth arg <= 0 in xwcreate, s/b 'Invalid window depth', not 'bad option

Problem:
None

Temporary solution:
No workaround

KPR #: 3900008078   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
In hpterm, an extra cursor appears after pressing [Next][Next].

Problem:
An extra cursor is left on the screen if you do the following:

Show multiple pages on the screen. Press Shift home to go to the last page. Then Prev. Scroll the page down a couple of lines with shift down arrow. Then press Next Next. An extra cursor will appear.

- X11 800 ONLY 3.0/3.1 -

KPR #: 3900008110   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
When clicking mouse inside, then outside hpterm, hpterm dies.

Problem:
This defect will occur if you:
-begin a cut operation in an hpterm window,
-move the cursor outside of the window without generating any pointer motion events from inside of the window,
-end the cut operation (release mouse button).
If this is done, hpterm will attempt to unhighlight text from the start position to an x and y position that is uninitialized and is only set by pointer motion events generated inside of the window.

Temporary solution:
No workaround.

KPR #: 3900008128   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
TSRX colors allocated incorrectly in overlays if first in STACKED MODE.

Problem:
If the four plane overlay device is the first screen of a Stacked Screen Mode configuration on a Turbo SRX display system (HP98730/98731) then colors will be allocated incorrectly in cells 8-15 of the colormap. Symptoms will be that colors allocated in cells 0-7 will be replicated in cells 8-15 and colors allocated in cells 8-15 will not be installed.

Temporary solution:
Two potential workarounds exist:

1)List the screens in opposite order so that the image planes are the lower numbered screen.
2)Allow the screen blanking screen saver to be installed. For example
      xset s 1
      <wait a few seconds>
      xset s 3600
      will correct the color allocation.

KPR #: 3900008136   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Running two servers at the same display won't work.

Problem:
If the user starts two 11 servers, both of them to the same display, then the second one may elt gracefully, with a memory fault. The first server continues to run normally.

Cause:
The cause is due to the second server's having no knowledge that another server is already using a given display device. During the initialization of that device, the second server receives an expected message from the Graphics Resource Manager and so behaves unexpectedly.

KPR #: 3900008078 **CONTINUED**

Temporary solution:
Workaround.

Typing over extra cursor will make it disappear.

KPR #: 3900008086   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Programatically turning key labels on/off repeatedly resizes hpterm wind

Problem:
The following program will reproduce the problem:

```
#include <stdio.h>

main()
{
    int i;
    for (i=0; i<1000; i++)
        if (i%2) write(1,"\033&j@",4);
        else     write(1,"\033&jB",4);
}
```

Temporary solution:
No workaround.

KPR #: 3900008094   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
hpterm will display wrong menu instead of user menu (sometimes)

Problem:
If you bring up an hpterm menu and turn off the menu via "MENU" and then turn it back on (via "MENU" again), it will display the same menu but the buttons will invoke the user's function keys. The action is right, the display is wrong.

Temporary solution:
No workaround.

KPR #: 3900008102   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Mode menu check mark does not come on for reverse video option

Problem:
Even though reverse video option is toggled on, the check mark does not appear in the menu.

Temporary solution:
No workaround.

KPR #: 3900008136 **CONTINUED**

Temporary solution:
Workaround:

Don't try running two servers to the same display.

KPR #: 3900008144   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Using non-HP Xlib may cause client termination for LARGE requests.

Problem:
The server ungracefully handles large request packets from clients. For client requests larger than 16,384 bytes (normal request size is about 32 bytes), the server disconnects the client! This isn't a problem for HP clients--because the HP Xlib guarantees a smaller packet size--but could be a problem for non-HP Xlib clients.

Cause:
The X protocol states that the server return a "bad length" error for requests that exceed MAX_REQUEST_SIZE (16,384 bytes), set up at server initialization time, but in the actual request code, the A.01 server checks against the wrong size (256K bytes).

Temporary solution:
Workaround:
Use the HP libX11.a library for writing clients.

KPR #: 3900008151   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
grmd process size grows by 2K for each Starbase application

Problem:
Every time a Starbase application is run in an X window, the grmd process size will grow by 2K. If the grmd process grows large enough, the system could run out of swap space.

Cause:
The grmd process does not free a 2K buffer used for IPC with the Starbase process when the Starbase process terminates.

Temporary solution:
Workaround:
Take down the X Window system periodically so that the grmd process will terminate.

KPR #: 3900008169   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
In depths greater than 8, resizing a backing store window crashes server

Problem:
The backing store of a window is kept in either frame-buffer or in

KPR #: 3900008169 **CONTINUED**

virtual memory. When a window is registered to be a DHA (Direct Hardware Access) window, its backing store, if any, is moved to "Shared Memory". Shared memory is a piece of memory that can be accessed by drawing routines of the Xserver as well as by the drawing routines in Starbase library. However the shared memory is a limited resource and sometimes may be unavailable. This may happen if there are several windows or one large window has been declared to be DHA window. If the Shared memory is not available, the Xserver should backoff and refuse to provide backing store support for the DHA window. Because of a bug, the Xserver sometimes fail to recognize this situation and tries to render to nonexistent backing store in the shared memory. Consequently the server crashes. This bug is being fixed in the next release. The problem is particularly visible for windows of depth 24, because the large quantities of memory are required to support backing store operation of these windows and consequently the shared memory reservoir runs out quicker.

Temporary solution:
Workaround:

The problem may be avoided (minimized) by doing the following:
  1) do not have many DHA-windows with backing store.
  2) do not declaring large full screen windows with backing store to be DHA-windows.
  3) increase the size of allocated shared memory by instructing the Graphics Resource Manager (GRM). See the relevant GRM-document for instructions on how to do this.

KPR #: 3900008177   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
On LCC or Hexagon display copying window sometimes is not right

Problem:
If a window has backing store and it is partly obscured, then when the window is unobscured its contents are to be copied from the backing store to the screen. In the LCC or Hexagon displays sometimes it does not work properly.

Cause:
The backing store of a window resides in either the frame buffer or in virtual memory. When the backing store contents are to be copied to the screen the Xserver employs one of two different routines to copy the backing store to the screen. One of these routines is specifically used to copy from a backing store in frame buffer to the screen. Another routine is used to specifically copy backing store in virtual memory to screen. The former routine as implemented for the above displays has a bug, such that sometimes it does not copy the contents of the backing store from the frame buffer if the area to be copied is partially visible and partially obscured. On most displays, the problem manifests only once when the Xserver is initialized. On the LCC and Hexagon displays, this problem may persist.

Temporary solution:
Workaround:

KPR #: 3900008177 **CONTINUED**

Large windows will have their backing store in virtual memory. This problem will not be visible then.

KPR #: 3900008185   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
HP98556 and STACKED SCREENS Mode: colormap hosed when server resets

Problem:
Running a server in STACKED-SCREENS MODE with a HP98556 integer accelerator present causes problems. When the last client dies, the server resets, as expected. However, it also trashes the colormap in such a way that most everything goes black (in a stippled fashion - the mesh of the root window). Using the mouse to toggle between the two screens causes the colormaps to reset correctly.

Cause:
The server will attempt to use the HP98556 if it is running when the server is started. If it is not running, but can be successfully started, the server will do so. There are some firmware difficulties in using the HP98556 andtiming of toggling between the image and overlay planes in STACKED-SCREENS mode.

Temporary solution:
Workaround:

None: Using a HP98556 in STACKED-SCREENS mode is not supported. One way to turn off the HP98556 is as follows:

1)Shut down the X system
2)rename the HP98556 microcode file
3)issue a "gopen (..., RESET_DEVICE)". This will reset the HP98556 and cause it to reload its microcode. Since the file has been renamed, the reload will fail and the HP98556 will shut down.

To start the HP98556 again, rename the microcode file back to normal and issue the gopen again.

Note: If the HP98556 is not running, but the microcode file is present, the server will start the HP98556.

KPR #: 3900008193   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Server doesn't always handle "Unsorted" XSetClipRectangles correctly

Problem:
The X lib procedure "XSetClipRectangles" allows the client to specify a set of rectangles in which to restrict rendering. The client must specify the ordering of the rectangles (Unsorted, YSorted, YXSorted, YXBanded). Rectangles that are "Unsorted" are not always handled correctly.

KPR #: 3900008193 **CONTINUED**

Cause:
The server always works with rectangles in YXBanded format. Rectangle lists specified in another format are converted to YXBanded. The algorithm to convert Unsorted rectangles to YXBanded is incorrect.

Temporary solution:
Workaround:

Order the rectangles into one of YSorted, YXSorted, or YXBanded.

KPR #: 3900008201   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
backing store is not deleted for depth 24 DHA windows

Problem:
If a depth 24 window is registered for Direct Hardware Access, any backing store present is not deleted. Also, a request to create backing store for such a window is not denied. If the window is obscured and then exposed, the contents of the backing store will be drawn. This is only a problem if the DHA client can not render into the backing store.

Cause:
The X server can render into depth 24 backing store. DHA Starbase clients can not. When a depth 24 window with backing store becomes registered for DHA, the server should delete the backing store. Similarly, if a depth 24 DHA client requests backing store, it should be denied.

Temporary solution:
Workaround:

Before registering the window for DHA, explicitly delete any backing store via the XSetWindowAttributes library procedure.

KPR #: 3900008219   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
redMask in the Visual structure zero in stacked mode on SRX/TSRX

Problem:
On the SRX (HP 98720/98721) and TSRX (HP98730/98731) displays, if the first screen of a Stacked Screen mode configuration has a visual class of DirectColor (i.e., its depth is either 12 bits double buffered, or 24 bits), then the ConnectionInfo that is transmitted to the client at XOpenDisplay time will have a bad value for the redMask of the DirectColor visual. The net result is that it is impossible to tell what bits of the Pixel actually define the red component.

Temporary solution:
Workaround:

Reverse the order of the screens in the X?screens file.

KPR #: 3900008227   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Colors stored incorrectly in upper bank on TSRX double buffer mode

Problem:
On the Turbo SRX display system (HP 98730/98731) if the X server is started in 12/12 double buffer mode (depth 24) then colors that are stored into the high bank will have the value intended for the green bank stored into the red bank, altering the red bank and leaving the green bank untouched. This problem should be unnoticeable in most cases. However, if the situation arises where a Starbase application is designed to utilize the X default colormap of the X server, then the display will flash with incorrect colors at each call to dbuffer_switch().

Temporary solution:
No workaround.

KPR #: 3900008235   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
White RGB value incorrect on 98548 display

Problem:
The value stored in the colormap for the color white for the 98548 display system is Red = 0xffff, Green = 0xffff, Blue = 0xffff. It should be 0xff00 for all three components to correctly match the rgb color database.

This results in being unable to allocate the color white. Thus a command such as the following will fail:
        xsetroot -solid white

Temporary solution:
No workaround.

KPR #: 3900008243   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
On TSRX (hp98730/98731) some tiles are rendered incorrectly

Problem:
On the Turbo SRX display system (HP98730/98731) tiles (patterns used for certain fill operation) whose width is between 16 and 23 pixels wide will not be rendered correctly. Visually, it looks as though only the left-hand portion of the tile is correct, with the right-hand portion looking like random data.

Temporary solution:
No workaround.

KPR #: 3900008250   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Remnants of SB cursors left when obscuring/unobscuring window

Problem:
On the Turbo-SRX, when an accelerated window with a Starbase cursor is being or will be obscured by another window (accelerated or not) that has a Starbase cursor in it, the cursor is not put down properly. This will happen even if the Starbase program is not accessing the device. The result is that pieces of Starbase cursors will be left on the screen.

Temporary solution:
No workaround.

KPR #: 3900008268   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
SB cursors in reserved planes are not turned off by the screen saver.

Problem:
If a direct hardware access window has a Starbase cursor in it on the Turbo-SRX or SRX that cursor is not turned off by the screen saver.

Temporary solution:
No workaround.

KPR #: 3900008276   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
client clip ignored when rendering to obscured window with backing store

Problem:
It is permissable for a client to specify that all rendering is to be contained within a sub-area of the window. This is called a client clip and is specified via the XSetClipRectangles or XSetClipMask client routines.
It is also permissable for a client to request backing store for a window. Any rendering to an obscured area of the window will then be directed to the backing store memory rather than discarded.
If both these options are in effect, any rendering outside the client clip area should be discarded and not rendered to the backing store. In the current product, this does not happen. Any rendering to an obscured area of the screen is directed to the backing store, irregardless of the client clip area. When the obscured area becomes visible, the unwanted rendering is copied from the backing store memory to the screen, creating an undesirable result.

Cause:
The clip list that is passed to the SDI dirvers contains two types of rectangles, "visible" and "obscured". A visible rectangle is a portion of the window that is visible. An obscured rectangle is a portion of the window that is obscured by another window, is offscreen, or is outside the client specified clip area. Rendering to a "visible" rectangle goes to the screen. Rendering to an "obscured" rectangle is discarded unless backing store is present in which case the rendering is

KPR #: 3900008292 **CONTINUED**

Cause:
More than one keycode is defined to the same key symbol.

There are no keys on the USASCII keyboard that can generate the duplicate keycodes, so this is only a problem for client programs that redefine the affected key codes and then look up the key symbols that have been redefined. The affected key codes and key symbols are:

keycode	key symbol	description
0x14	KP_6	- the '6' key on the keypad
0x28	KP_6	- doesn't exist on the keyboard
0x1c	KP_3	- the '3' key on the keypad
0x29	KP_3	- doesn't exist on the keyboard
0x25	Kanji	- doesn't exist on the keyboard
0x83	Kanji	- doesn't exist on the keyboard

Temporary solution:
Workaround:
Be aware that if XChangeKeyboardMapping is used to redefine the key symbols associated with the affected keycodes, and XKeysymToKeycode is then used to look up the symbol that was redefined, it will still be found and will be the second instance of that symbol.

KPR #: 3900008300   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
X Server error message: "Illegal state: prev_stat=2 keycode=0".

Problem:
If you use a two-button mouse with the X server, and the X server is heavily loaded, it is possible to get an internal error message from the X server when pressing mouse buttons. The message is something like "Illegal state: pre_state=2 keycode=0" and indicates that a button has been lost by the HIL driver, so that the X server has seen two consecutive button down or button up codes.

Cause:
The HIL driver has a finite sized buffer. If the X server is busy and does not read from that buffer, and the user continues to move the mouse it is possible to cause that buffer to overflow. The result is that a button can be lost and the user needs to press that same button again to get the server to see it. There is usually no ill effect other than the irritation of seeing the error message and having to press the button again.

Temporary solution:
Workaround:
Make sure that standard error output from the server is redirected to a file so that it does not come to the console. If the server is slow

                                        - X11 800 ONLY 3.0/3.1 -

KPR #: 3900008276 **CONTINUED**

directed there.
There is no way for the SDI drivers to distinguish between an "obscured" rectangle that is caused by window obscurity (and should be rendered to backing store) from an "obscured" rectangle caused by being outside the client clip area (and should ALWAYS be discarded!).

Temporary solution:
Workaround:

One potential workaround is to use the 6.2/3.0 X11 Server instead. This defect has been introduced by the 6.5/3.1 X11 Server implementation. However, using the 6.2/3.1 X11 Server will cause a loss of functionality present in the new product. If this is unsatisfactory, the customer should contact his HP Support representative. A server with the defect corrected will be supplied to the Support organization.

KPR #: 3900008284   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
If X server restarted, ScreenSaver time not initialized.

Problem:
Users of X can specify a timeout value for the server. If no input is received by the server during that time, a screensaver background pattern will be drawn over the X display. If the timeout value is reached, so that the background pattern is drawn, and then the last client exits, so that the server restarts itself and redraws the root window, the time used to determine when the server next saves the screen will be incorrect.

Cause:
The code that waits for input before checking to see if it is time to save the screen waits longer than the screensaver time.

Temporary solution:
Workaround:

Type a key or move the mouse after the server restarts.

KPR #: 3900008292   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Multiple keycodes with same keysym in USASCII keymap.

Problem:
The X library provides functions to look up an X server keycode using a key symbol, and vice versa. In order for these to work correctly, there must be a one-on-one correspondence between keycodes and key symbols.

In the USASCII keymap, more than one keycode is defined to the same key symbol. The effect of this is that a client program can redefine a key symbol based on the keycode, then look up the key symbol that it has redefined, and still find it even though it should no longer be there.

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KPR #: 3900008342   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Gwind can hang when large number of windows are created.

Problem:
This defect can cause the gwind daemon to hang. gwind hangs when a about 50 graphics windows have been created. This is an unusually high number for a user, but not out of the question. This is a low frequency defect, with serious consequences.

We have placed a warning in our update_info file stating: Using more than 24 graphics windows at the same time can cause the gwind program to hang. Killing the gwind process is the best way to restore the ability to create graphics windows for starbase applications.

Temporary solution:
Workaround:

The workaround is to kill the gwind process. This destroys the graphics windows and allows the user to start creating graphics windows again.

KPR #: 3900008359   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
xset gives error if pixel value is used outside of range 1-255.

Problem:
On direct color systems like the TurboSRX, if a large pixel value is used an error condition is generated. The expected behavior is that this operation should work.

Temporary solution:
No workaround.

KPR #: 3900008367   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
xwud does not use the colors saved; it uses just the pixels

Problem:
Xwd saves the window contents along with the colormap; however, when xwud displays the saved contents, it ignores the colormap and instead uses the pixels.

Temporary solution:
No workaround.

KPR #: 3900008375   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
HPwm leaves X server grabbed and forgets pending resize if menu pops up

Problem:
Hpwm forgets about a pending window resize operation and leaves the X server grabbed if a button press causes a menu to pop up during the resize. The following line of my button bindings causes a menu to pop

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KPR #: 3900008300

because it is busy, don't keep moving the mouse or banging on the buttons in an attempt to get its attention.

KPR #: 3900008318   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Compiler error when referencing XHPSTACKED_SCREENS_MODE constant

Problem:
If you use the XHPGetServerMode function to determine the mode of the X server, a value is returned that should be compared to constants defined in <X11/XHPproto.h>. One of these constants, XHPSTACKED_SCREENS_MODE, is defined as STACKED_SCREENS_MODE. If you reference the constant XHPSTACKED_SCREENS_MODE, the compiler will report that STACKED_SCREENS_MODE is undefined.

Cause:
STACKED_SCREENS_MODE is undefined. The constant that should have been used is STACKED_MODE.

Temporary solution:
Use the constant STACKED_MODE instead of XHPSTACKED_SCREENS_MODE.

KPR #: 3900008326   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Last client termination MAY cause the X Server to abort

Problem:
When the last X client terminates, the X Server goes through a virtual reset. The Server may abort when during this virtual reset. We have one widget program which evidences this behavior. In most instances, the Server will successfully reset.

Temporary solution:
Workaround:

Run an X Client which will not be terminated, like xclock. This will ensure that the Server will not go through the reset process.

KPR #: 3900008334   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
XOpenDisplay through local:0 disables access control of server

Problem:
When a client connects via the local:? display specifier, it will disable the server's access control mechanism for an indeterminate period of time. Thus, unauthorized hosts can run clients against the server. This disabling will continue until some system error occurs within the server, resetting the global variable "errno."

Temporary solution:
Do not use the display specifiers local:? or unix:??

KPR #: 3900009035 **CONTINUED**

since an application developer might use HP widgets without
HP extensions, or vice versa, and need the routine.

The problem occurs when a program uses both HP widgets and
HP extensions, and is compiled on a series 800. If you do this
on a series 300, the compiler issues a warning, "duplicate entry points",
then resolves the uLitoR8 external reference against whichever library
(libXhp11.a or libXw.a) is specified first and produces a valid
executable binary. On the series 800, the compiler aborts
after issuing the warning.

Temporary solution:
The work-around is as follows:
  1) Compile your program with -c to produce relocatable object files
     (supressing the link edit phase of the compile).
     e.g. "cc -c foo.c" produces "foo.o".
  2) Invoke the loader explicitly to link in the first library, but
     still produce a relocatable object file as a result (no undefined
     symbols will be reported).
     e.g. "ld -r -lXhp11 foo.o" produces a new "foo.o" with
            the "uLitoR8" external reference resolved.
  3) Invoke the loader explicitly a second time to hide the resolved
     routine by marking it as "local".
     e.g. "ld -r -h uLitoR8 foo.o" produces a new "foo.o" with
            the "uLitoR8" external reference hidden for future links
  4) Invoke the loader explicitly one las time to resolve the rest of
     the unresolved externals and produce an executable binary.
     e.g. "ld -o foo foo.o -lXw -lX11" produces the executable
            binary "foo" with the "uLitoR8" routine referenced only
            once.

                                                   - X11 800 ONLY 3.0/3.1 -

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KPR #: 3900008375 **CONTINUED**

up for button 3 presses in the window frame area. If I start a resize
with a menu then press button 3 while over a frame area the pop up menu
is displayed. When button 3 is released the menu is removed and the
resize is no longer occuring. The server is still grabbed, preventing
clients from running.

Temporary solution:
The window manager will ungrab the server if another resize is done on
any window.

KPR #: 3900008383   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
XtNtitlePosition defined differently for 2 different widgets

Problem:
The resource XtNtitlePosition is defined differently for 2 different
widgets:

     Cascade - type int
        uses XwTOP, XwBOTTOM or XwBOTH

     TitleBar -
        type int
        seems to use numbers different from the enum
        values above

Temporary solution:
No workaround.

KPR #: 3900008391   Product: X11 800 ONLY 3.0/3.1 B1155A   00.03

One-line description:
Remnants of SB cursors left when obscuring/unobscuring window

Problem:
On the Turbo-SRX, when an accelerated window with a Starbase cursor is
being or will be obscured by another window (accelerated or not) that
has a Starbase cursor in it, the cursor is not put down properly. This
will happen even if the Starbase program is not accessing the device.
The result is that pieces of Starbase cursors will be left on the
screen.

Temporary solution:
No workaround.

KPR #: 3900009035   Product: X11 800 ONLY 3.0/3.1 B1155A   B3.00

One-line description:
loader fails on s800 due to duplicate uLitoR8 routines

Problem:
There is a routine called "uLitoR8" which is duplicated on both
the libXw.a and libXhp11.a libraries. It is used to translate
ISO Latin 1 characters to HP Roman8 characters, It is in both libraries

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KPR #: 3900006072 Product: X11 WINDOWS 6.2/3.0 B1152A   00.00

One-line description:
TextEdit forgets Leave callback if highlight_traversal is set

Problem:
If the traversal_type resource for a TextEdit widget is set to highlight_traversal, then when the cursor leaves the instance, the widget does not invoke its Leave callback; it assumes that since traversal is on, leaving the widget is meaningless - when we actually get a focus out event (because the cursor left the topmost widget) we will invoke our Leave callbacks.

Temporary solution:
WORKAROUND: NONE

KPR #: 3900006122 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
TextEdit Widget leaves highlight droppings

Problem:
When typing into a StaticText 3D widget with traversal on and you reach the righthand border, the old traversal highlight is not erased when new one is drawn as the widget grows.

Temporary solution:
No workaround.

KPR #: 3900006130 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Form doesn't size itself correctly for certain sets of constraints.

Problem:
A problem occurs when there is a constraint set whose widget on the end is shorter than an intermediate widget.

Temporary solution:
Workaround:

This can generally be gotten around by referencing the constraints in a different manner to ensure that the end child in the constraint set is the longest.

KPR #: 3900006148 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Toolkit generates warnings if widgets put in empty slots of listwidget.

Problem:
If a list widget is created with children explicitly put in row, columns, then destroy those children, then create new children with the same explicit row, columns, the toolkit generates warnings, saying user is putting widgets in places already taken/occupied.

Temporary solution:

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KPR #: 3900006148 **CONTINUED**

No workarounds.

KPR #: 3900006155 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
SWindow doesn't propogate all resources to its children.

Problem:
If a scrolled window is created, and a background pixel is specified within the arglist, the scrollbars will inherit this value, but the bulletin board will not. If one child inherits its, all of them should.

Temporary solution:
Workaround:

From defaults file: (include following two lines)
          *Scrolled Window. Bulletin Board
                      background: [value]

KPR #: 3900006163 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Select up key can be lost causing incorrect widget state.

Problem:
This occurs when the select key is pressed and the cursor is moved out of the widget hierarchy, and the select key is released. The select up will be lost.

Temporary solution:
No workaround.

KPR #: 3900006171 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
TextEdit does not handle returns followed by backspaces correctly.

Problem:
While editing a field, any field within a textEdit widget, hit return then try to backspace up past the return. It doesn't allow it.

Temporary solution:
Workaround:

Use [Ctrl][P] to move to previous line.

KPR #: 3900006189 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Shell doesn't account for border width of its child.

Problem:
Create a wide-bordered child of a shell. The shell ignores the borders on the top and left hand sides.

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KPR #: 3900006189 **CONTINUED**

Temporary solution:
Workaround:

Put the wide-bordered child inside a frame.

KPR #: 3900006197   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
The 2 byte string "\n" is treated as a newline like the 1 byte '\n'.

Problem:
When loading a string into the StaticText widget (or the list widget or anything else that uses static text) loading a string that includes the two byte sequence ,'\','n' causes the one byte ,'\n' (newline) to be put in the widget. The man page documents that this will be the case when the string comes from the .Xdefaults, but not when set programatically.

Temporary solution:
No workaround.

KPR #: 3900006205   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
StaticRaster will choose it's size wrong.

Problem:
If the image is sent to the StaticRaster via SetValues, and if shadow is OFF, and if there is a non-zero highlight thickness, the StaticRaster widget chooses its size two highlight thicknesses too small.

Temporary solution:
No workaround.

KPR #: 3900006213   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Certain increments of highlight thickness can be lost.

Problem:
Primitive and Manager lose highlight thickness increments of 2 greater than the current thickness when shadow is on. They also lose increments of 2 less than the current if both the thickness is decreased and the shadow is turned off.

Temporary solution:
Workaround:

Don't change highlight thickness by increments of 2.

KPR #: 3900006221   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
VPane Widget setting invalid padding and border_frame causes Xtoolkit Er

Problem:

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KPR #: 3900006221 **CONTINUED**

Setting large negative values for padding and/or frame causes Xtoolkit error and aborts program.

Temporary solution:
No workaround.

KPR #: 3900006239   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Shell: a realized shell doesn't resize to the size of its new children

Problem:
When the shell is realized and a child is created to go in the shell, the shell doesn't resize to the size of it's child when a child is created. It also won't change during SetValues of the child if the height or width doesn't change if the shell is previously realized. (i.e if the width changes the changeMask is only set to change the width, thus the shell resizes to the width and the height doesn't change.This results in a funky looking display) If the child needs to be larger than the shell at creation time, the child is clipped. (e.g. a button will not display all of it's label if the label extend beyond the width set for the shell.) Note: All these problems occur when the shell is previously realized and a new child is being created with the realize shell as the parent.

Temporary solution:
Workaround:

Make sure shell isn't realized when you insert the child.

KPR #: 3900006247   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
SWin: produces a valuator warning on some resizing.

Problem:
When resizing is done and the scrollbars are unnecessary, the scrolled window sometimes (not consistently) produces the following X-Toolkit Warning:
X Toolkit Warning: Valuator: the origin is less than the valuator min
                                 or greater than the valuator max minus
                                 the valuator extent.

Temporary solution:
No workaround.

KPR #: 3900006254   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
XtNinsertPosition is defined for both TextEdit and Manager classes.

Problem:
When creating a text edit widget within a row column manager, if the application specifies the XtNinsertPosition resource, with the intention of setting the text insertion position within the text edit widget, it

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KPR #: 3900006254 **CONTINUED**

will also cause the Manager class to use this value as an indication of where within the parent's child list this child should be placed.

Thus, if this resource is set to 0, the cursor is placed at position 0, and the text edit widget is placed as the first child within its parent.
Workaround:

If you want to control the positioning of the widget within its parent's list of children, the use XtNinsertPosition resource at create time.
If you want to control the TextEdit cursor position, then create the widget without this resource, the use SetValue to edit the XtNinsertPosition resource.

Temporary solution:
Workaround:

If you want to control the positioning of the widget within its parent's list of children, the use XtNinsertPosition resource at create time.
If you want to control the TextEdit cursor position, then create the widget without this resource, the use SetValue to edit the XtNinsertPosition resource.

Temporary solution:
No workaround.

KPR #: 3900006262   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
TextEdit: Editing text in middle of buffer messes up selection.

Problem:
When editing in the middle of the text buffer, the text at the end of that line and at the end of all subsequent lines is not selectable.

Temporary solution:
No workaround.

KPR #: 3900006270   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
TextEdit: Doesn't reset margins when highlight_thickness changes.

Problem:
TextEdit: Doesn't reset margins when highlight_thickness changes.

Temporary solution:
Workaround:

Reset Left and Right margins to Highlight_thickness + 3.
Reset Top and Bottom to Highlight_thickness.

KPR #: 3900006288   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
TextEdit: clears an area of shadow on inputting characters.

Problem:
If the size of the TextEdit widget isn't large enough to accommodate the

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KPR #: 3900006288 **CONTINUED**

text, an area of the shadow can be cleared on text entry.

Temporary solution:
Workaround:

Make widget larger taking into account font size, amount of text, highlight thickness and border size.

KPR #: 3900006296   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
TextEdit widgets occasionally drop the first char of a line of text.

Problem:
After a TextEdit widget is resized, if text needs to be wrapped around, the first character of the text that was wrapped will be dropped.

Temporary solution:
No workaround.

KPR #: 3900006304   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Assorted TextEdit code deficiencies.

Problem:
- XwTextCopySelection does not return a character pointer.
- XwTextCopySubString does not return a character pointer.
No workaround.

Temporary solution:
No workaround.

KPR #: 3900006312   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
XtNfile resource cannot be modified through SetValues.

Problem:
The XtNfile resource is defined at create time and cannot be changed later by SetValue in order to view/edit a different file.
Workaround:

To edit a different file than is currently specified by XtNfile, first read the file into a buffer, then use StringSrc to read the buffer into XtNstring which can then be viewed and/or edited.
The XtNfile resource is defined at create time and cannot be changed later by SetValue in order to view/edit a different file.
Workaround:

To edit a different file than is currently specified by XtNfile, first read the file into a buffer, then use StringSrc to read the buffer into XtNstring which can then be viewed and/or edited.

Temporary solution:

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KPR #: 3900006312 **CONTINUED**

Workaround:

To edit a different file than is currently specified by XtNfile, first read the file into a buffer, then use StringSrc to read the buffer into XtNstring which can then be viewed and/or edited.

KPR #: 3900006320   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
The macro DefaultDepth returns incorrect depth on many displays.

Problem:
Instead of returning the number of color planes, the server will return the number of bits used internally to represent one pixel.

Temporary solution:
Workaround:

The client should inspect the value returned for the number of color cells.

KPR #: 3900006338   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Deleting translations can cause problems.

Problem:
A set of translations can be supplied for a complete class of widgets (i.e. for all Pushbutton widgets). This works fine as long as the user doesn't ever delete one of the pushbuttons; as soon as this happens, a core dump will occur the next time a new pushbutton is created.

Temporary solution:
Workaround:

There are two workarounds:

1. If it is necessary to specify new translations for an entire class of widgets, then do not destroy widgets of this class within the application.

2. Specify new translations for specific named widgets, rather than for the entire widget class.

KPR #: 3900006346   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
TextEdit: Segmentation Fault when writing from empty cut buffer.

Problem:
When using the textedit widget with an empty cut buffer and the user tries to paste with [Ctrl][Y] or [Shift][Y], a segmentation fault will occur.

Temporary solution:

KPR #: 3900006346 **CONTINUED**

No workaround.

KPR #: 3900006353   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Spring-loaded popup widgets don't interact well with keyboard focus.

Problem:
If the Xtk keyboard focus is currently pointed at a particular widget, and the user initiates an action which causes a popup menu to be posted (as spring loaded and exclusive grab), the widget with the keyboard focus never dehighlights itself or removes its focus entry from the grablist; this can cause strange things to happen as the user moves through the popup menu. The problem occurs because the current focus widget never receives its LeaveNotify event, because by the time it is dispatched, the focus widget is not part of the currently active grablist, so the event (which is of type ignore) is discarded.

Temporary solution:
Workaround:

Before anything is put on the grablist, create a fake focus_out event and dispatch it to the top level shell.

KPR #: 3900006361   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Destroying popup children, then their parent widget, dumps core.

Problem:
Recently, a fix was added to the toolkit which cleared up many of the problems associated with destroying popup widgets. Unfortunately, the fix has itself introduced several new bugs (refer to another shell destroy bug I submitted last week). All of the problems I have encountered occur as a result of the fact that the core and shell Destroy procedures attempt to use the popup children list to store the window Ids for the popup children being destroyed.
To properly fix these bugs, we need to add two new fields to the core instance structure: a pointer to an array of window Ids, and a count of the number of entries in this array. We shouldn't attempt to use the popup list to contain both widget and window Ids.
The problem occurs when the XtDestroyWidget() call is made for the widget, it attempts to recursively destroy all other widgets descending from it. Unfortunately, its popup children have already been destroyed, and the widget's popup list now contains the window Ids for its children instead of the widget Ids for its children. When XtDestroywidget() tries to recursively destroy the widgets, it dumps core because it tries to treat a window Id as a widget Id.

Temporary solution:
Workaround:

Destroy parent only (not children).

KPR #: 3900006379   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
TextEdit forgets Leave callback if highlight_traversal is set

Problem:
If the traversal_type resource for a TextEdit widget is set to highlight_traversal, then when the cursor leaves the instance, the widget does not invoke its Leave callback; it assumes that since traversal is on, leaving the widget is meaningless - when we actually get a focus out event (because the cursor left the topmost widget) we will invoke our Leave callbacks.

Temporary solution:
No workaround.

KPR #: 3900006403   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Malloc failure causes Server to terminate.

Problem:
The ddx calls in the Server often needts to malloc memory.

If the malloc calls fail then the Server may terminate. This only happens when the system has run out of memory. When the system is that sick there may be no easy solution. However, the desired behavior would be to return an error code to DIX that made the call, and then DIX would return an X error to the X Client.

Temporary solution:
No workaround.

KPR #: 3900006411   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
DisplayHeightMM() and WidthMM() return same values for all displays.

Problem:
No problem text.

Temporary solution:
No workaround.

KPR #: 3900006429   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
keysyms for left and right quote on german keyboard are backwards.

Problem:
No problem text.

Temporary solution:
No workaround.

KPR #: 3900006437   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
XGrabPointer will not confine_to a root window

Problem:
Due to the fact that a pointer sprite which is defined for a particular screen will not work on another screen, I attempted to issue an XGrabPointer() using a confine_to window of DefaultRootWindow(dpy) (otherwise, if you move off the screen, the sprite changes to something that no longer indicates an active grab is in progress). Anyway, if the confine_to window is at the edge of the screen (this applies to the root window as a special case, but happens with other confine_to windows that are adjacent to the edge of the screen), the confine does not work and the pointer can be dragged to the other screen.

Temporary solution:
No workaround.

KPR #: 3900006445   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
root-window backing store malfunctions

Problem:
I have a report that turning on backing store for the root window can cause strange stuff to appear in the root window.

Temporary solution:
Workaround:

Not a recommended practice to turn on backing store in root window.

KPR #: 3900006452   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
SRX server in stacked mode leaves the wrong screen showing at startup.

Problem:
SRX server in stacked mode leaves the wrong screen showing at startup.

Temporary solution:
Workaround:

Move the mouse continuously left or right until you see the X cursor. At that point operation is normal.

KPR #: 3900006460   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Text output causes mouse cursor to flicker even if window is unmapped.

Problem:
Output to windows may cause mouse cursor flickor even if the cursor is not in direct contact to the output region.

KPR #: 3900006460 **CONTINUED**

Temporary solution:
No workaround.

KPR #: 3900006478   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
rtprio on any X process can cause deadlock.

Problem:
rtprio on any X process can cause deadlock.

Temporary solution:
Workaround:

rtprio should not be used in conjunction with X windows.

KPR #: 3900006486   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
XSetModifierMapping allows duplicate key codes in a keymap.

Problem:
The documentation for XSetModifierMapping specifies that a keycode may not appear more than once in the map. Using 'xmodmap' a user may specify the same keycode for the two different modifiers. Now 'xmodmap' keeps its own copy of a key map, modifying it with the parameters given to it by the user and then at the end it calls XSetModifierMapping. At this point, if the same keycode appears more than once in the map given to XSetModifierMapping, I would expect the routine to return an error since the Xlib manual specifies that "no keycode may appear twice in the entire map". Needless to say, XSetModifierMapping does not return an error, but accepts the map as is. When 'xmodmap' is used to print the current map, the keycode is listed twice.

Example:

```
    xmodmap +4 Shift_R +5 Shift_R
    xmodmap
```

The first command will place Shift_R in the modifier FOUR and FIVE. If you are using the default mapping, Shift_R will also show up in the SHIFT modifier.

Temporary solution:
Workaround:

Make sure there are no duplicate key codes.

KPR #: 3900006494   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Output to UNMAPPED window (with BackingStore) NOT there when W is mapped

Problem:
Backing store is not turned on until window gets an expose event.

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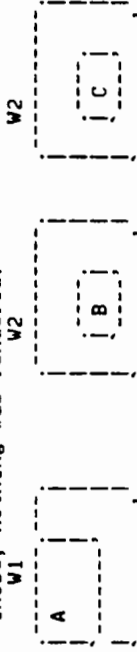

KPR #: 3900006494 **CONTINUED**

Windows don't get this event until they are mapped. Window backing store will ignore all output until exposed.

Temporary solution:
No workaround.

KPR #: 3900006502   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
CopyPlane, CopyArea and backing store may not copy everything

Problem:
There is a bug with the backing store implementation (which also exists in R2): CopyPlane window W1 (area A obscured) to window W2 (area B obscured) and area C (the intersection of A and B) will be ignored (ie miBSCopyPlane() (via miHandleExposures) which tuned around and called miBSCopyPlane() to render to area C but since miBSCopyPlane() had set pPriv->inUse, nothing was rendered.

```
        W1                        W2
   +---------+            +---------+
   |         |            |    +---------+
   |    A    |            |    | B  |    |
   |         |            |    +---------+
   +---------+            +---------+
                                 W2
                              +---------+
                              |    +-----+
                              |    | C   |
                              |    +-----+
                              +---------+
```

Very likely the same window to window CopyPlane bug exists for CopyArea.

Temporary solution:
No workaround.

KPR #: 3900006510   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
XQueryColors Xlib function returns incorrect results

Problem:
The colormap values appear to get converted from their hardware representation to their X domain short int representation. The conversion seems to be done by shifting left by 8 bits or multiplying by 256. This will improperly cause a full intensity 0xFF hardware value to appear as 0xFF00, or a very light grey (dim white?), after conversion.

The X documentation clearly states that the full intensity value should be 0xFFFF. If 257 is used for the conversion constant the hardware-to-X mapping will be equally spaced values from 0..0xFFFF.

Temporary solution:
No workaround.

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KPR #: 3900006569   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
In hpterm, cursor is left in incorrect position after processing <esc>d`

Problem:
After processing an enter (via <esc>d), hpterm should leave the cursor in column 0. It leaves it in the same col as when the processing began.

Temporary solution:
No workaround.

KPR #: 3900006577   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
In hpterm, pastes of >-512 chars drop data (s800 only).

KPR #: 3900006585   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
In hpterm, <esc>a can not return a row >999.

Problem:
In hpterm, <esc>a can not return a row 999.

Temporary solution:
Workaround:
Use rows of less than 999.

KPR #: 3900006593   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
hpterm display messages are over written by status block.

Problem:
When a status message is displayed in the softkey window (via <esc>&j<len>Lmsg>, the center status block will overwrite it if insert char mode is entered (or anything else that modifies it).

Temporary solution:
No workaround.

KPR #: 3900006601   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
when hpterm gets a soft reset, the cursor is left off

Problem:
When hpterm gets a soft reset, the cursor is left off.

Temporary solution:
Workaround:
Hit a character and cursor returns.

KPR #: 3900006528   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Popping up a uwm menu over a bitmap grid can black out grid markers.

Problem:
Place a bitmap grid, then do a 'set all'. Pop-up a uwm menu over the gr grid then select move and move from the grid, intervening lines will stay black and move from the grid, intervening lines will stay black instead of changing back to white.

Temporary solution:
Workaround:
Refresh display.

KPR #: 3900006536   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
hpterm dies when changing colors if colormap is full

Problem:
When user is using escape sequences to change colors and the colormap is full, hpterm will die.

Temporary solution:
No workaround.
Make sure colormap is not completely full when changing colors.

KPR #: 3900006544   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
hpterm ignores ''STOP'' key.

Problem:
When the old X10 hpterm border was removed from hpterm, the code to toggle xon/xoff mode was removed as well.

Temporary solution:
No workaround.

KPR #: 3900006551   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
In hpterm, <esc>&jA displays the wrong menu (should be modes).

Problem:
Displays top level menu instead of the Modes menu.

Temporary solution:
No workaround.

Computer Museum

KPR #: 3900006858   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Gwindstop doesn't return nonzero status when destroying nonexistant wind

Problem:
Gwindstop is not indicating that a window was not successfully destroyed
by returning the correct exit status. Instead the status is zero,
indicating the window destroy was successful when the window was
nonexistant

Temporary solution:
No workaround.

KPR #: 3900006866   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
rgb returns status 0 for illegal color names/values

Problem:
rgb is not indicating an error status if an illegal color name or value
is used.

Temporary solution:
No workaround.

KPR #: 3900006874   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Can't resize info when resizing windows with large borders

Problem:
For some large borders on windows that are being resized, the pop-up
resize info window sometimes does not appear.

Temporary solution:
No workaround.

KPR #: 3900006882   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Using xclock with option, chime only beeps once on the hour, not twice.

Problem:
Using xclock with option, chime only beeps once on the hour, not twice.

Temporary solution:
No workaround.

KPR #: 3900006890   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
xfc doesn't complain if both -l and -m options at same time

Problem:
xfc doesn't complain if both -l and -m options at same time.

KPR #: 3900006619   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Bitmap with-nodashed, then do invert all results in lines becoming dots

Problem:
Using bitmap with -nodashed, then do invert all results in lines
becoming dots.

If bitmap is started with the -nodashed option and the user then
specified 'invert all', the solid lines become dots.

Temporary solution:
No workaround.

KPR #: 3900006825   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Gwind daemon left running if given invalid display argument

Problem:
If gwind is given an invalid diplay argument, the resulting error
condition will leave the gwind daemon running, unstead of terminating.

Temporary solution:
Workaround:
Kill the gwind process if this error occurs.

KPR #: 3900006833   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Gwind doesn't handle negative geometry positioning, off by border width

Problem:
Gwind doesn't handle negative geometry positioning, off by border width.

Temporary solution:
Workaround:
Place windows with positive coordinates.

KPR #: 3900006841   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Gwindstop does not accept multiple directories

Problem:
The documentation indicates that gwind can handle multiple directories,
however, only one directory is processed.

Temporary solution:
Workaround:
Specify multiple 'gwind dir' for each desired directory.

KPR #: 3900006890   **CONTINUED**

Temporary solution:
Workaround:
User should only specify one of the options: -m or -l.

KPR #: 3900006908   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
All special properties have parsing problems in xfc.

Problem:
The validity of data specified for special properties is not checked by xfc.

Temporary solution:
Workaround:
The user must ensure that special property data is correct.

KPR #: 3900006916   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Man page example for xinit is wrong:...-1... is wrong;(should be --:1)

Problem:
man page examplefor xinit is wrong: ... -- 1 ... is incorrect; (should be -- :1)

Temporary solution:
No workaround.

KPR #: 3900006924   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Default screen is used if an invalid screen number is given.

Problem:
If invalid screen number is given in [hostname:display.screen] default screen is used instead of returning error.

Temporary solution:
No workaround.

KPR #: 3900006932   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Wrong message given when using xmodmap -n -e.

Problem:
If using xmodmap with options -n & -e, the message appears telling the user 'add @=9' instead of the correct message 'add shift = 9'.

Temporary solution:
No workaround.

KPR #: 3900006940   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
A bad keysym when using xmodmap does not terminate with error.

Problem:
If a bad keysym is found when using xmodmap, the processing continues for all the valid keysyms. The desired behavior is to terminate and not make any changes to the mappings if there is an invalid keysym.

Temporary solution:
Workaround:
Use the option -n to check the validity of the mappings without changing them.

KPR #: 3900006957   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
When using Xmodmap, X protocol error can result vs. correct error messag

Problem:
If using an invalid expression in xmodmap, such as: 'keycode 4 = 9', an X protocol error is generated instead of an 'expression wrong' error message.

Temporary solution:
No workaround.

KPR #: 3900006965   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
X11start man page doesn't mention $PATH is changed.

Problem:
The man page for x11start does not indicates that it will modify the PATH variable to assure that /usr/bin/X11 is in the users PATH variable in front of /usr/bin.

Temporary solution:
No workaround.

KPR #: 3900006973   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Xwcreate returns status of 0 even if there was an error.

KPR #: 3900006981   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
-inverse option in xwud doesn't work on a monochrome display.

KPR #: 390006999   Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
In using xwcreate, color parameters expect pixel indices not rgb values

Problem:
When specify color for background or border, xwcreate expects pixel indices only and not rgb values

Temporary solution:
No workaround.

KPR #: 3900007005   Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
TextEdit: Changing fonts using setvalues dumps core on input or bspace.

Problem:
When the font is changed using setvalues, the font appears to change (cursor spacing changes) but what is displayed is incorrect. Upon entering a second character on the series 300's it dumps core with a segmentation fault. On the series 800's it doesn't dump core until an attempt is made to backspace all the characters.

Neither the new font nor the old font is actually displayed when the font is changed. A quick blink of the inserted characters is shown inserting each new character.

Temporary solution:
No workaround.

KPR #: 3900007013   Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
TurboSRX server 'forgets' current cursor if moved out of then into scree

Problem:
When using the TurboSRX server on the series 300, I noticed the following behavior:

<NOTE: I had both an overlay and image server running>

1) Run a program, and wait for the window manager to change the cursor to the one used to prompt the user to place a window.
2) Move the cursor off the edge of the screen, and into the other screen.
3) Re-enter the original screen.
The cursor is now the regular 'cross' cursor instead of the cursor it was when we left the screen.

Temporary solution:
No workaround.

KPR #: 3900007021   Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
Blow through on screen when non font file given

Problem:
When a non font file with the suffix '.scf' is given as a font parameter to a client, a message is blown through on the screen.

   "stdin: not in compressed format"

The screen is scrolled and generally ugly looking, though a refresh will restore the screen to its proper configuration. Unfortunately, I don't know how many customers will realize that is all it takes to clean up the screen.

Temporary solution:
Workaround:
Repaint the screen to restore.

KPR #: 3900007039   Product: X11 WINDOWS 6.2/3.0 B1152A 00.03

One-line description:
XFillArc() does not handle negative angles properly.

Problem:
The following short program illustrates several cases where attempting to fill an arc using a negative (clockwise) angle causes incorrect results to be displayed. The problem is also affected by the choice of starting angle; note that some clockwise arcs are filled correctly, depending on their starting angle.

####################### arcbug.c #######################
```c
#include <X11/Xlib.h>

main()
{
    Display *dpy;
    int scrn;
    GC gc;
    Window win, root;
    XEvent event;
    unsigned long fg, bg;

    dpy - XOpenDisplay ("unix:0.0");
    scrn - DefaultScreen(dpy);
    root - DefaultRootWindow(dpy);
    fg - WhitePixel(dpy, scrn);
    bg - BlackPixel(dpy, scrn);
    win - XCreateSimpleWindow(dpy, root, 10, 10, 200, 100, 4 fg, bg);
    XSelectInput(dpy, win, ExposureMask);
    XMapWindow(dpy, win);
    XNextEvent(dpy, &event);

    gc - DefaultGC(dpy, scrn);
```

KPR #: 3900007039 **CONTINUED**

```
    XSetBackground(dpy, gc, bg);
    XSetForeground(dpy, gc, fg);

    XFillArc(dpy, win, gc,  25,  25, 20, 25,  90*64,  -360*64);  /* Fails */
    XFillArc(dpy, win, gc,  75,  25, 20, 25,   0*64,  -360*64);  /* Fails */
    XFillArc(dpy, win, gc,  25,  75, 20, 25,  90*64,  -350*64);  /* Fails */
    XFillArc(dpy, win, gc,  75,  75, 20, 25, -90*64,  -360*64);
    XFillArc(dpy, win, gc, 125,  25, 20, 25,   0*64,  -270*64);
    XFillArc(dpy, win, gc, 175,  25, 20, 25,   0*64,  -300*64);
    XFillArc(dpy, win, gc, 125,  75, 20, 25,  90*64,  -300*64);  /* Fails*/
    XFillArc(dpy, win, gc, 175,  75, 20, 25,  45*64,  -360*64);  /* Fails*/
    XSync(dpy);
    XSelectInput(dpy, win, ButtonPressMask);
    XNextEvent(dpy, &event);
}
```

Temporary solution:
No workaround.

KPR #: 3900007047 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Problems with stippling a bitmap

Problem:
Four bitmaps are created -- a 32x32 bitmap containing lines forming an "X", a 32x32 bitmap containing lines forming a "+", a 32x32 bitmap containing lines forming a "+", a 32x32 bitmap used as a stipple pattern to fill a fourth 300x300 bitmap. Also, a window is created to display the final fourth bitmap. The action goes as follows: as soon as the bitmaps are created and correctly initialized, the "X" bitmap is copied to the stipple bitmap. The large bitmap is then filled with the stipple pattern and then displayed (via copy plane) to the window. This phase works correctly, displaying a lot of little "X"'s in the window. Next, the "+" bitmap is copied to the stipple bitmap, and then the large bitmap is filled again. The large bitmap is also displayed again. This should display a lot of "+"'s in the window, but it does not, instead displaying the original "X"'s.
The problem is that the large bitmap is not being updated correctly. If a fill operation is made with a different bitmap, and then the stipple bitmap is used again, things work fine.

Temporary solution:
No workaround.

KPR #: 3900007054 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Problem w/ copy plane from window to bitmap.

Problem:
There is a bug in copy plane when the source is a window, the destination is a bitmap, and the destination region is something other than 0,0. First, a window is created, mapped, and an "x" is drawn into it. The program then waits for a mouse event. Then a portion of the

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KPR #: 3900007054 **CONTINUED**

window is copied from 0,0 into a bitmap, and the contents of the bitmap is immediately redisplayed to the window. The program will then wait for another mouse event. The copying is then repeated, but this time the window is copied from 100, 100 to the bitmap. The program then waits for a final mouse event.

The correct results of this program is that the window should not appear to change, since portions of the window are being copied to a bitmap and then immediately copied back. What happens is that the first copy / copy back works correctly, but the second one does not, resulting in a hole in the "x".

Temporary solution:
No workaround.

KPR #: 3900007062 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
Problem with copy-area to window with neg. co-ords.

Problem:
There is a bug with copy-area to a window. It will create and map a window, then follow any cursor motion in that window with a "butterfly", a figure which draws two boxes -- one with the upper left corner at the cursor and another with the lower right corner at the cursor.

The bug is that if the "butterfly" is moved off the screen towards the upper left corner of the window, parts of the upper box get erased. The closer the cursor gets to the corner, the more of the box which gets erased. This erasure is caused by negative coordinates being passed to copy-area.

Temporary solution:
No workaround.

KPR #: 3900007070 Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
XDrawLines chokes on duplicates in array of points.

Problem:
When a stream of points is fed to XDrawLines that contains sequential points that have identical X and Y values, the polyline is terminated on that point. The rest of the array of points is silently ignored.

To illustrate this behavior use two static arrays of points. The first array has three sets of duplicate points; the second array is identical, except the duplicate points have been removed. The program creates a window and clears it, pauses for 5 seconds, attempts to draw the first array of lines (this fails; only the first quarter of the array is drawn), pauses for 5, then draws the second array (which works).

This is a big problem for us, as we are using a smoothing algorithm to process some data and generate the list of points; sometimes the algorithm generates multiple duplicate points like this. The static

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KPR #: 3900007070

array of points used here is an example of points generated by the algorithm.

KPR #: 3900007088   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Xwininfor returns status of 1, even if there was no error.

KPR #: 3900007104   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Inconsistent handling of vertices in 0-width polyline

Problem:
Drawing of zero-width polylines to windows (performed with hp code) draws each vertex exactly once. Drawing of the same to pixmaps (performed with mi code) draws non-terminal vertices twice. Results can differ between windows and pixmaps when the replacement rule is XOR (or any other alu with binary value 10xx or xx10).

This was observed with a rectangular polyline -- only vertical and horizontal lines. I don't know what happens for other cases.

Temporary solution:
No workaround.

KPR #: 3900007112   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
SetValues of TitleBar's internal StaticText widget causes memory fault.

Problem:
None.

Temporary solution:
Instead of having the TitleBar create the static text widget, create it yourself. You may then do your own set values without core dumps.

KPR #: 3900007120   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Xserver can crash on XCopyPlane when dealing with depth 1.

Problem:
XCopyArea may fail and crash server when dealing with depth 1 (width is multiple of 8, source != , source (x,y), and dst (x,y) == (0,0)). Clipping may fail and copy too much. This can happen when the user requests that more data be copied than actually exists. The problem shows up in XCopyPlane because it calls XCopyArea.

Temporary solution:
Workaround:

Don't try to copy more data than exists.

KPR #: 3900007138   Product: X11 WINDOWS 6.2/3.0   B1152A

One-line description:
XPutImage on fireye sometimes munges offscreen memory.

Problem:
The problem was observed when some characters in the fixed font were somewhat mangled.

Temporary solution:
No workaround.

KPR #: 3900007146   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
display enhancements in hpterm not always displayed the same as terminal

Problem:
Enhancement requests do not handle the case of no characters being placed on the screen where the enhancement request is placed. The standard terminals handle this by blank filling to reach whereever an enhancement request is placed. This has come up in several cases. Sample requests are included. You can also see the problem when using JYACC or same.

Put the next nine lines in a file:
```
ESC&a0c10YESCKESC&a1c10YESC&d@ESC&a-1CESC&dJESC&a+79c10YESC&a1c12Y
ESC&a0c11YESCKESC&a1c11YESC&d@ESC&a-1CESC&dJESC&a+79c11YESC&dJESC&a1c13Y
ESC&a0c10Y
ESC&dJ
ESC&d@
ESCK
```

Put the next nine lines in a file:
```
ESC&a0c10YESCKESC&a1c10YESC&d@ESC&a-1CESC&dJESC&a+79c10YESC&dJ1ESC&a1c12
Y
ESC&a0c11YESCKESC&a1c11YESC&d@ESC&a-1CESC&dJESC&a+79c11YESC&dJ2ESC&a1c13
Y
ESC&a0c10Y
ESC&dJ
ESC&d@
ESCK
```

Chang the sequence ESC to the escape character.

Dump each file to a standard terminal and to hpterm and not that on hpterm you do not get an enhancement at the end of the line for the first file.

Temporary solution:
No workaround.

KPR #: 3900007153   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
finnish keyboard doesn't work with `Product-Line' software

Problem:
7-bit European characters don't seem to be working correctly for input.

Temporary solution:
No workaround.

KPR #: 3900007161   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Reading multi-line translations in resource files returns wrong $ length

Problem:
With multi-line translations read in from a resource file, the length of the translation string (as passed to _CompileTranslations) is wrong.

This looks like a problem in Xrm.c, PutLineResources(). When it parses a string in a resource file like:

```
*translations:        <Btn2Down>:       select()\n\
                      <Btn2up>:         release()
```

the count is incremented by 3 when the "\n" is processed, rather than 1.

KPR #: 3900007179   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
XPutImage does not work correctly with shorts.

Problem:
No problem text.

Temporary solution:
No workaround.

KPR #: 3900007187   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
uwm does not take large border widths into account when placing windows

Problem:
Bring up a window with a wide border such as:

```
    xfd  -bw 100
```

When the size prompt comes up, press the left button and note the 200 pixels outline displayed by uwm. It does not take into account the 200 pixels needed by the border. When you release the button, a window much wider than the outline will appear.

Temporary solution:
Workaround:

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KPR #: 3900007187 **CONTINUED**

Don't use very large borders when creating windows.

KPR #: 3900007195   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
X server doesn't work on kernel without ITE configured in. (S800)

Problem:
If I generate a kernel without the ITE configured into it, I can't launch the X-server to a graphics devise. It comes back and says that the "Mobley" server is missing, and that I should build it in.

This is a problem for people who want to use their graphics devises only as a X workstations. The ITE takes a lot of space in kernel, and should not be required.

Temporary solution:
No workaround.

KPR #: 3900007773   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Copy plane sometimes doesn't work

Problem:
First create bitmap and a window, mapping the window. Then blit the bitmap onto itself, using GXinvert. Then copy the entire bitmap to the window, using copy-plane w/ operation == GXxor. Then copy pieces of the bitmap to the window, again using GXxor. The pieces cover the entire bitmap, and so when the copies are done the window should be blank.

Temporary solution:
No workaround.

KPR #: 3900007781   Product: X11 WINDOWS 6.2/3.0   B1152A   00.03

One-line description:
Problems w/ copy-plane from window to bitmap

Problem:
There is a bug in copy plane when the source is a window, the destination is a bitmap, and destination region is something other than 0,0. First, a window is created, mapped, and an "X" is drawn into it. The program then waits for a mouse event. Then a portion of the window is copied from 0,0 into a bitmap, and the contents of the bitmap is immediately redisplayed to the window. The program will then wait for another mouse event. The copying is then repeated, but this time the window is copied from 100, 100 to the bitmap. The program then waits for a final mouse event.

The correct results of this program is that the window should not appear to change, since portions of the window are being copied to a bitmap and then immediately copied back. What happens is that the first copy/ copy back works correctly, but the second one does not, resulting in a

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KPR #: 3900007781 **CONTINUED**

hole in the "X".

Temporary solution:
No workaround.

KPR #: 500047441   Product: X11 WINDOWS 6.2/3.0 B1152A   00.03

One-line description:
xwcreate does not size window correctly in 6.2 - fixed in 6.5

KPR #: 1650099572 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Duplicate typedefs for short INT8 cause compiler to abort

Problem:
Apparently, the C compiler is calling a warning an error and then aborting. The problem is caused by a duplicate definition in include files for short, long and char. The compiler should issue a warning "duplicate typedefs" and keep on going. This defect really should be lodged with the division responsible for the C compiler

KPR #: 3900007211 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
hpwm title remains pushed in shen concurrent interact. place is done

Problem:
If the title is already pushed in when a concurrent interactive place is done, the title will not pop back. This is a cosmetic defect.

Temporary solution:
Workaround:

Repaint the screen.

KPR #: 3900007229 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Hpwm.man says f.refresh_wil actis like f.refresh in root context.

Problem:
The man page incorrectly states that firefresh_win acts the same as firefresh in root context.

Temporary solution:
No workaround.

KPR #: 3900007237 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Core Dump when sizing windows in a VPANE

Problem:
In the latest version of the Excalibur BUILD tool, I have been playing with the VPANE widget to eliminate some of the sashes (make only certain parts of the tool resizable). My widget hierarchy is as follows:

```
PANEL
  VPANE
    MENU-BAR
    FORM
      <lots of stuff>             (min=55, max=55)
    LIST     <list mgr stuff>     (min=25)
    FORM                          (min=25,  max=25)
      <lots of stuff>
```

KPR #: 3900007237 **CONTINUED**

```
    FORM ("File View")                    (min=25)
        <lots of stuff>
        <horizontal scroll bar>
```

What I end with is a screen with 1 sash mark (what I want), it is
attached to the bottom of the LIST widget. When I grab the sash and
move it all the way down to the bottom of the screen, I die with a
floating point exception.

Temporary solution:
Workaround:

If I make the MIN for the bottom form bigger (e.g. 60 instead of 25),
things work fine.

KPR #: 3900007245   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Textedit widget created with empty file, change to full file, hang

Problem:
I have a widget based mail program. If I create a textedit widget that
has a sourceType of XwdiskSrc and file that is empty and then I change
the parameters in a callback to point to a non empty file my program
hangs.

Temporary solution:
Workaround:

By putting some text in the original file everything works O.K.

KPR #: 3900007252   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
icon over save button in save view in hpwm. Both get select signal.

Problem:
icon was over the save button on a fileview. I doubleclicked to
deiconize. The icon deiconized but the button beneath was selected as
well. Fortunately it is a nondamaging request. This is really a bug in
hpwm. The bug is that after a double click to deiconize, the release
event is making it through to the window underneath. Since the double
click is "owned" by the window manager, it shouldn't allow it to be
passed to an application (this requires some sort of grab, I think).
Hpwm carries out the double-click action when it receives the second
button down event. The second button-up event is not consumed by hpwm.

Temporary solution:
Change your selection for the button to be btnlDown rather than btnlUp.

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KPR #: 3900007260   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
hpwm interactive placement when mouse is busy - window (0,0) can't move

Problem:
When hpwm has interactive placement on, if a window appears while the
mouse button is down, hpwm puts the top left corner of the window at
(0,0). Unfortunately, the title bar is hidden, so the gadget to move
the window cannot be reached. I have to kill the window and start over.

Temporary solution:
No workaround.

KPR #: 3900007278   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
"<Btnlup> title f.raise_lower" only does f.raise in hpwm.

Problem:
The following bindings for f.raise_lower work:

```
    <Key>Select          window|icon       f.raise_lower
    <Btn1Up>                  icon          f.raise_lower
    Meta<Btn1Up>              icon          f.raise_lower
Menu DefaultSystemMenu
{

    "Raise/Lower"        f.raise_lower

}
```
The following only execute f.raise:

```
    <Btn1Up>                   title      f.raise_lower
    Meta<Btn1Up>               title      f.raise_lower
    Meta<Btn1Up>               window     f.raise_lower
```

Temporary solution:
No workaround.

KPR #: 3900007286   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Unexpected window position with negative geometry co-ordinates.

Problem:
There is a general problem with Xlib when negative geometry coordinates
are used. This problem can be exhibited when using hpwm or some of the
clients.

Temporary solution:
No workaround.

KPR #: 3900007294   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
XtNtitlePosition defined differently for 2 different widgets

Problem:

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KPR #: 3900007328 **CONTINUED**

```
*BackgroundTile:            50_foreground
*StaticText.backgroundTile:  background
```

the list widget comes up with very strang defaults. The static text entries are correct (solid) but the row column manager underneath is tiled. The bulletin board manager is solid again (so the list manager window has an apparent random pattern of solid and tile). The correct values would have been for the bulletin board to use the same background as the row column, but what I really wanted to set was everything solid but the scrollbar.

To fix the problem, I added:

```
*List*BackgroundTile:           background
*List*ScrollBar*BackgroundTile:  50_foreground
```

but the problem is the second resource is ignored. It should be possible to set subresources for the scrollbar color and tile. Either that, or the resources need to be made available at the manager level with something like vsbBackgroundTile, etc.

This is actually a problem with ScrolledWindow as well.

Temporary solution:
No workaround.

KPR #: 3900007336   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
multiple traversal highlights can sometimes appear

Problem:
I have some code which pops up a transient shell and calls XtSetKeyboardFocus(). It then pops down the transient shell and later pops it up, again setting the focus. If the user changes the kbd focus before popping down the shell (dialog box), then when the box reappears, both highlights are sometimes visible I think when no intervening management requests come in, but the focus is correctly placed in the one on which XtSetKeyboardFocus() was last called.

Temporary solution:
Workaround:

I can work around this by calling XtSetKeyboardFocus(popup_shell, None) when I pop down the box.

KPR #: 3900007344   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
SWindow: horizontal scroll bar Y resource always returns 0 on getvalues

Problem:
None

KPR #: 3900007294 **CONTINUED**

The resource XtNtitlePosition isdefined differently for 2 different widgets:

```
Cascade - type int
    uses XwTOP, XwBOTTOM or XwBOTH

TitleBar -
    type int
    seems to use numbers different from the enum
    values above
```

Temporary solution:
No workaround.

KPR #: 3900007302   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
type converters in libXw don't generate warning on bad conversions

Problem:
In tracking another problem, I discovered that some of my resources were illegal in my app-defaults. The converter functions are supposed to generate warnings when illegal values are specified, but did not. In particular, I had specified something like:
```
*StaticText.Gravity:       False
```

Instead of giving it a real value. It failed to tell me that False was not a legal value for gravity.

Temporary solution:
No workaround.

KPR #: 3900007310   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
TextEditP.h: uses defines _XtTextEditPrivate_h instead of _XwTextEdit...

Problem:
To prevent multiple inclusion, ifdefs and defines were added to the header files. TextEditP.h uses ifdef _XtTextEditPrivate_h and define _Xt... to prevent multiple inclusion instead of using the proper _Xw prefix. This will only cause problems if an application defines _XtTextEditPrivate_h somewhere (which is very unlikely). But for consistency sake it should use the _Xw prefix.

Temporary solution:
No workaround.

KPR #: 3900007328   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
BackgroundTile resources not properly propagated

Problem:
If the resource file contains:

KPR #: 3900007344 **CONTINUED**

Temporary solution:
None

KPR #: 3900007351   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
monochrome Z format image handled incorrectly in `xpr' and `xwd2sb'.

Problem:
Xpr & xwd2sb incorrectly handles monochrome images generated in ZPixmap
format when the image is packed one bit per pixel. This due to a defect
in the "Z_image_pixel" function contained in the x2jet.c file.

Temporary solution:
Workaround:

Use the -xy command line option when generating the image via
"xwd". This forces the image to be dumped in XYPixmap format
which is handled correctly by xpr.

KPR #: 3900007369   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
xwcreate indicates an invalid background pixel when using TSRX display.

Problem:
xwcreate displays a wrong error message and exits if pixel number is
specified for the background. This happened when using a TurboSRX
display in 24 plane mode in the image planes.

Temporary solution:
Workaround:

Use color names when specifying background.

KPR #: 3900007377   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
In xpr -trailer string trncated by 1 char when -append -noff spec. after

Problem:
None

Temporary solution:
Workaround:

Simply add an extra space to the end of a trailer string if -append and
-noff is to be used after it.

KPR #: 3900007385   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
xwcreate does not give an error for exceeding window count.

Problem:

KPR #: 3900007385 **CONTINUED**

Xwcreate will not create window if wondow count is exceeded and does
not give an error message.

Temporary solution:
No workaround

KPR #: 3900007393   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
-depth arg <= 0 in xwcreate, s/b `invalid window depth', not `bad option

Problem:
None

Temporary solution:
No workaround

KPR #: 3900007401   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
In hpterm, an extra cursor appears after pressing [Next][Next].

Problem:
An extra cursor is left on the screen if you do the following:

Show multiple pages on the screen. Press Shift home to go to the
last page. Then Prev. Scroll the page down a couple of lines with
shift down arrow. Then press Next Next. An extra cursor will appear.

Temporary solution:
Workaround:

Typing over extra cursor will make it disappear.

KPR #: 3900007419   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
Programatically turning key labels on/off repeatedly resizes hpterm wind

Problem:
The following program will reproduce the problem:

```
#include <stdio.h>

main()
{
    int i;
    for (i=0; i<1000; i++)
        if (i%2) write(1,"\033&j@",4);
        else     write(1,"\033&jB",4);
}
```

Temporary solution:
No workaround.

KPR #: 3900007427   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
hpterm will display wrong menu instead of user menu (sometimes)

Problem:
If you bring up an hpterm menu and turn off the menu via "MENU" and
then turn it back on (via "MENU" again), it will display the same menu
but the buttons will invoke the user's function keys. The action is
right, the display is wrong.

Temporary solution:
No workaround.

KPR #: 3900007435   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Mode menu check mark does not come on for reverse video option

Problem:
Even though reverse video option is toggled on, the check mark does
not appear in the menu.

Temporary solution:
No workaround.

KPR #: 3900007443   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
When clicking mouse inside, then outside hpterm, hpterm dies.

Problem:
This defect will occur if you:
  -begin a cut operation in an hpterm window,
  -move the cursor outside of the window without generating any
   pointer motion events from inside of the window,
  -end the cut operation (release mouse button).
If this is done, hpterm will attempt to unhighlight text from the start
position to an x and y position that is uninitialized and is only set
by pointer motion events generated inside of the window.

Temporary solution:
No workaround.

KPR #: 3900007450   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
TSRX colors allocated incorrectly in overlays if first in STACKED MODE.

Problem:
If the four plane overlay device is the first screen of a Stacked Screen
Mode configuration on a Turbo SRX display system (HP98730/98731) then
colors will be allocated incorrectly in cells 8-15 of the colormap.
Symptoms will be that colors allocated in cells 0-7 will be replicated
in cells 8-15 and colors allocated in cells 8-15 will not be installed.

Temporary solution:

                          - X11 WINDOWS 6.5/3.1 -

KPR #: 3900007450 **CONTINUED**

Two potential workarounds exist:

1)List the screens in opposite order so that the image planes are the
  lower numbered screen.
2)Allow the screen blanking screen saver to be installed. For example
      xset s 1
      <wait a few seconds>
      xset s 3600
  will correct the color allocation.

KPR #: 3900007468   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Running two servers at the same display won't work.

Problem:
If the user starts two 11 servers, both of them to the same display
then the second one may eit gracefully, with a memory fault. The first
server continues to run normally.

Cause:
The cause is due to the second server's having no knowledge that
another server is already using a given display device. During the
initialization of that device, the second server receives an expected
message from the Graphics Resource Manager and so behaves unexpectedly.

Temporary solution:
Workaround:

Don't try running two servers to the same display.

KPR #: 3900007476   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Using non-HP Xlib may cause client termination for LARGE requests.

Problem:
The server ungracefully handles large request packets from clients. For
client requests larger than 16,384 bytes (normal request size is about
32 bytes), the server disconnects the client! This isn't a problem for
HP clients--because the HP Xlib guarantees a smaller packet size--but
could be a problem for non-HP Xlib clients.

Cause:
The X protocol states that the server return a "bad length" error for
requests that exceed MAX_REQUEST_SIZE (16,384 bytes), set up at server
initialization time, but in the actual request code, the A.01 server
checks against the wrong size (256K bytes).

Temporary solution:
Workaround:

Use the HP libX11.a library for writing clients.

                          - X11 WINDOWS 6.5/3.1 -

KPR #: 3900007500 **CONTINUED**

The backing store of a window is kept in either frame-buffer or in virtual memory. When a window is registered to be a DHA (Direct Hardware Access) window, its backing store, if any, is moved to "Shared Memory". Shared memory is a piece of memory that can be accessed by drawing routines of the Xserver as well as by the drawing routines in Starbase library. However the shared memory is a limited resource and sometimes may be unavailable. This may happen if there are several windows or one large window has been declared to be DHA window. If the Shared memory is not available, the Xserver should backoff and refuse to provide backing store support for the DHA window. Because of a bug, the Xserver sometimes fail to recognize this situation and tries to render to nonexistent backing store in the shared memory. Consequently the server crashes. This bug is being fixed in the next release. The problem is particularly visible for windows of depth 24, because the large quantities of memory are required to support backing store operation of these windows and consequently the shared memory reservoir runs out quicker.

Temporary solution:
Workaround:
The problem may be avoided (minimized) by doing the following:
1) do not have many DHA-windows with backing store.
2) do not declaring large full screen windows with backing store to be DHA-windows.
3) increase the size of allocated shared memory by instructing the Graphics Resource Manager (GRM). See the relevant GRM-document for instructions on how to do this.

KPR #: 3900007518 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
On LCC or Hexagon display copying window sometimes is not right

Problem:
If a window has backing store and it is partly obscured, then when the window is unobscured its contents are to be copied from the backing store to the screen. One of these routines is specifically used to copy from a backing store in frame buffer to the screen. Another routine is used to specifically copy backing store in virtual memory to screen. The former routine as implemented for the above displays has a bug, such that sometimes it does not copy the contents of the backing store from the frame buffer if the area to be copied is partially visible and partially obscured. On most displays, the problem manifests only once when the Xserver is initialized. On the LCC and Hexagon displays, this problem may persist.

Temporary solution:

                                      - X11 WINDOWS 6.5/3.1 -

KPR #: 3900007484 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Restarting a second s300 server after changing X*screens file may fail.

Problem:
When you've got TWO X11 servers running on the same s300 computer system, and then you stop and restart one of them, the restarted server may complain that "your user address space is too small" and exit.

The problem will cocur if you've changed your X*screens file before trying to restart the second server.

This problem exists on s300 HP-UX 6.5 only; it has been fixed for s800 HP-UX 3.1.

Cause:
The cause is that the Graphics Resource Manager (GRM), which tracks server usage, maintains an outdated notion of the second server's offscreen memory when the second server exits. When the second server tries to reinitialize its display with new X*screens file information, the GRM will not honor that request.

Temporary solution:
Workaround:

Instead of stopping just one server, stop BOTH servers. With no servers running, the Graphics Resource Manager will stop running as well. Restarting the servers will then restart a new GRM, and screen initialization will occur correctly.

KPR #: 3900007492 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
grmd process size grows by 2K for each Starbase application

Problem:
Every time a Starbase application is run in an X window, the grmd process size will grow by 2K. If the grmd process grows large enough, the system could run out of swap space.

Cause:
The grmd process does not free a 2K buffer used for IPC with the Starbase process when the Starbase process terminates.

Temporary solution:
Workaround:

Take down the X Window system periodically so that the grmd process will terminate.

KPR #: 3900007500 Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
In depths greater than 8, resizing a backing store window crashes server

Problem:

                                      - X11 WINDOWS 6.5/3.1 -

KPR #: 3900007518 **CONTINUED**

Workaround:

Large windows will have their backing store in virtual memory. This problem will not be visible then.

KPR #: 3900007526   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
XGetImage behaves wrong for backing store windows of depth 2,3,4,6.

Problem:
If a client calls XGetImage on a window with backing store, whose depth is greater than 1 and less than 8, and a portion of the window is obscured, then the obscured region of the window image returns the pixel representation of the screen when it should return the image stored in the backing store.

Temporary solution:
Make sure such a window is not obscured before XGetImage is called.

KPR #: 3900007534   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
HP98556 and STACKED SCREENS Mode: colormap hosed when server resets

Problem:
Running a server in STACKED-SCREENS MODE with a HP98556 integer accelerator present causes problems. When the last client dies, the server resets, as expected. However, it also trashes the colormap in such a way that most everything goes black (in a stippled fashion - the mesh of the root window). Using the mouse to toggle between the two screens causes the colormaps to reset correctly.

Cause:
The server will attempt to use the HP98556 if it is running when the server is started. If it is not running, but can be successfully started, the server will do so. There are some firmware difficulties in using the HP98556 and timing of toggling between the image and overlay planes in STACKED-SCREENS mode.

Temporary solution:
Workaround:

None: Using a HP98556 in STACKED-SCREENS mode is not supported. One way to turn off the HP98556 is as follows:

1)Shut down the X system
2)rename the HP98556 microcode file
3)issue a "gopen (...., RESET_DEVICE)". This will reset the HP98556 and cause it to reload its microcode. Since the file has been renamed, the reload will fail and the HP98556 will shut down.

To start the HP98556 again, rename the microcode file back to normal and issue the gopen again.

KPR #: 3900007534 **CONTINUED**

Note: If the HP98556 is not running, but the microcode file is present, the server will start the HP98556.

KPR #: 3900007542   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Server doesn't always handle "Unsorted" XSetClipRectangles correctly

Problem:
The X lib procedure "XSetClipRectangles" allows the client to specify a set of rectangles in which to restrict rendering. The client must specify the ordering of the rectangles (Unsorted, YSorted, YXSorted, YXBanded). Rectangles that are "Unsorted" are not always handled correctly.

Cause:
The server always works with rectangles in YXBanded format. Rectangle lists specified in another format are converted to YXBanded. The algorithm to convert Unsorted rectangles to YXBanded is incorrect.

Temporary solution:
Workaround:

Order the rectangles into one of YSorted, YXSorted, or YXBanded.

KPR #: 3900007559   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
backing store is not deleted for depth 24 DHA windows

Problem:
If a depth 24 window is registered for Direct Hardware Access, any backing store present is not deleted. Also, a request to create backing store for such a window is not denied. If the window is obscured and then exposed, the contents of the backing store will be drawn. This is only a problem if the DHA client can not render into the backing store.

Cause:
The X server can render into depth 24 backing store. DHA Starbase clients can not. When a depth 24 window with backing store becomes registered for DHA, the server should delete the backing store. Similarly, if a depth 24 DHA client requests backing store, it should be denied.

Temporary solution:
Workaround:

Before registering the window for DHA, explicitly delete any backing store via the XSetWindowAttributes library procedure.

KPR #: 3900007591   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
White RGB value incorrect on 98548 display

Problem:
The value stored in the colormap for the color white for the 98548
display system is Red = 0xfff, Green = 0xfff, Blue = 0xffff. It
should be 0xff00 for all three components to correctly match the rgb
color database.

This results in being unable to allocate the color white. Thus a
command such as the following will fail:
            xsetroot -solid white

Temporary solution:
No workaround.

KPR #: 3900007609   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
On TSRX (hp98730/98731) some tiles are rendered incorrectly

Problem:
On the Turbo SRX display system (HP98730/98731) tiles (patterns used for
certain fill operation) whose width is between 16 and 23 pixels wide
will not be rendered correctly. Visually, it looks as though only the
left-hand portion of the tile is correct, with the right-hand portion
looking like random data.

Temporary solution:
No workaround.

KPR #: 3900007617   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Tiles may be drawn incorrectly on SRX (HP 98720/98721) (s300)

Problem:
On the SRX (HP 98720/98721) display system, some tiles (pixmaps used
as fill pattern for rendering operations) may be drawn incorrectly
depending on their alignment on the screen. This is a purely cosmetic
defect.

Temporary solution:
No workaround.

KPR #: 3900007625   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Remnants of SB cursors left when obscuring/unobscuring window

Problem:
On the Turbo-SRX, when an accelerated window with a Starbase cursor is
being or will be obscured by another window (accelerated or not) that
has a Starbase cursor in it, the cursor is not put down properly. This
will happen even if the Starbase program is not accessing the device.

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KPR #: 3900007567   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Backing store may not be rendered to correctly on some displays (s300)

Problem:
On the 98542, 98543, 98544, 98545, and 98547 display interfaces, any
operation that results in the copying of data from one are of the screen
to another area that is obscured AND has Backing Store enabled will
result in the backing store being rendered incorrectly. Typical
operations such as moving a window or obscuring a window will NOT cause
this behavior to appear. Only copying on screen data to another area of
the screen that is obscured by another window will cause this.

Temporary solution:
No workaround.

KPR #: 3900007575   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
redMask in the Visual structure zero in stacked mode on SRX/TSRX

Problem:
On the SRX (HP 98720/98721) and TSRX (HP98730/98731) displays, if the
first screen of a Stacked Screen mode configuration has a visual class
of DirectColor (i.e., its depth is either 12 bits double buffered, or
24 bits), then the ConnectionInfo that is transmitted to the client at
XOpenDisplay time will have a bad value for the redMask of the
DirectColor visual. The net result is that it is impossible to tell
what bits of the Pixel actually define the red component.

Temporary solution:
Workaround:

Reverse the order of the screens in the X?screens file.

KPR #: 3900007583   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Colors stored incorrectly in upper bank on TSRX double buffer mode

Problem:
On the Turbo SRX display system (HP 98730/98731) if the X server is
started in 12/12 double buffer mode (depth 24) then colors that are
stored into the high bank will have the value intended for the green
bank stored into the red bank, altering the red bank and leaving the
green bank untouched. This problem should be unnoticeable in most
cases. However, if the situation arises where a Starbase application
is designed to utilize the X default colormap of the X server, then the
display will flash with incorrect colors at each call to
dbuffer_switch().

Temporary solution:
No workaround.

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KPR #: 3900007625 **CONTINUED**

The result is that pieces of Starbase cursors will be left on the screen.

Temporary solution:
No workaround.

KPR #: 3900007633   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
SB cursors in reserved planes are not turned off by the screen saver.

Problem:
If a direct hardware access window has a Starbase cursor in it on the Turbo-SRX or SRX that cursor is not turned off by the screen saver.

Temporary solution:
No workaround.

KPR #: 3900007641   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
client clip ignored when rendering to obscured window with backing store

Problem:
It is permissable for a client to specify that all rendering is to be contained within a sub-area of the window. This is called a client clip and is specified via the XSetClipRectangles or XSetClipMask client routines.
It is also permissable for a client to request backing store for a window. Any rendering to an obscured area of the window will then be directed to the backing store memory rather than discarded.
If both these options are in effect, any rendering outside the client clip area should be discarded and not rendered to the backing store. In the current product, this does not happen. Any rendering to an obscured area of the screen is directed to the backing store, irregardless of the client clip area. When the obscured area becomes visible, the unwanted rendering is copied from the backing store memory to the screen, creating an undesirable result.

Cause:
The clip list that is passed to the SDI dirvers contains two types of rectangles, "visible" and "obscured". A visible rectangle is a portion of the window that is visible. An obscured rectangle is a portion of the window that is obscured by another window, is offscreen, or is outside the client specified clip area. Rendering to a "visible" rectangle goes to the screen. Rendering to an "obscured" rectangle is discarded unless backing store is present in which case the rendering is directed there.
The union of all rectangles in the clip list covers the entire window. There is no way for the SDI drivers to distinguish between an "obscured" rectangle that is caused by window obscurity (and should be rendered to backing store) from an "obscured" rectangle caused by being outside the client clip area (and should ALWAYS be discarded!).

Temporary solution:

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KPR #: 3900007641 **CONTINUED**

Workaround:

One potential workaround is to use the 6.2/3.0 X11 Server instead. This defect has been introduced by the 6.5/3.1 Server implementation. However, using the 6.2/3/1 X11 Server will cause a loss of functionality present in the new product. If this is unsatisfactory, the customer should contact his HP Support representative. A server with the defect corrected will be supplied to the Support organization.

KPR #: 3900007658   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
If X server restarted, ScreenSaver time not initialized.

Problem:
Users of X can specify a timeout value for the server. If no input is received by the server during that time, a screensaver background pattern will be drawn over the X display.
If the timeout value is reached, so that the background pattern is drawn, and then the last client exits, so that the server restarts itself and redraws the root window, the time used to determine when the server next saves the screen will be incorrect.

Cause:
The code that waits for input before checking to see if it is time to save the screen waits longer than the screensaver time.

Temporary solution:
Workaround:

Type a key or move the mouse after the server restarts.

KPR #: 3900007666   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
Multiple keycodes with same keysym in USASCII keymap.

Problem:
The X library provides functions to look up an X server keycode using a key symbol, and vice versa. In order for these to work correctly, there must be a one-on-one correspondence between keycodes and key symbols.

In the USASCII keymap, more than one keycode is defined to the same key symbol. The effect of this is that a client program can redefine a key symbol based on the keycode, then look up the key symbol that it has redefined, and still find it even though it should no longer be there.

Cause:
More than one keycode is defined to the same key symbol.

There are no keys on the USASCII keyboard that can generate the duplicate keycodes, so this is only a problem for client programs that redefine the affected key codes and then look up the key symbols that have been redefined. The affected key codes and key symbols are:

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KPR #: 3900007682   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
Compiler error when referencing XHPSTACKED_SCREENS_MODE constant

Problem:
If you use the XHPGetServerMode function to determine the mode of the
X server, a value is returned that should be compared to constants
defined in <X11/XHPproto.h>. One of these constants,
XHPSTACKED_SCREENS_MODE, is defined as STACKED_SCREENS_MODE. If you
reference the constant XHPSTACKED_SCREENS_MODE, the compiler will
report that STACKED_SCREENS_MODE is undefined.

Cause:
STACKED_SCREENS_MODE is undefined. The constant that should have been
used is STACKED_MODE.

Temporary solution:
Use the constant STACKED_MODE instead of XHPSTACKED_SCREENS_MODE.

KPR #: 3900007690   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
Last client termination MAY cause the X Server to abort

Problem:
When the last X client terminates, the X Server goes through a virtual
reset. The Server may abort when during this virtual reset. We have
one widget program which evidences this behavior. In most instances,
the server will successfully reset.

Temporary solution:
Workaround:

Run an X Client which will not be terminated, like xclock. This will
ensure that the Server will not go through the reset process.

Signed off 02/08/90 in release C02.00

KPR #: 3900007708   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
XOpenDisplay through local:0 disables access control of server

Problem:
When a client connects via the local:? display specifier, it will
disable the server's access control mechanism for an indeterminate
period of time. Thus, unauthorized hosts can run clients against the
server. This disabling will continue until some system error occurs
within the server, resetting the global variable "errno."

Temporary solution:
Do not use the display specifiers local:? or unix:?

Signed off 02/08/90 in release C02.00

KPR #: 3900007666   **CONTINUED**

keycode	key symbol	description
0x14	KP_6	- the '6' key on the keypad
0x28	KP_6	- doesn't exist on the keyboard
0x1c	KP_3	- the '3' key on the keypad
0x29	KP_3	- doesn't exist on the keyboard
0x25	Kanji	- doesn't exist on the keyboard
0x83	Kanji	- doesn't exist on the keyboard

Temporary solution:
Workaround:

Be aware that if XChangeKeyboardMapping is used to redefine the key
symbols associated with the affected keycodes, and XKeysymToKeycode
is then used to look up the symbol that was redefined, it will still
be found and will be the second instance of that symbol.

KPR #: 3900007674   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
X Server error message: "Illegal state: prev_stat=2 keycode=0".

Problem:
If you use a two-button mouse with the X server, and the X server is
heavily loaded, it is possible to get an internal error message from the
X server when pressing mouse buttons. The message is something like
"Illegal state: pre_state=2 keycode=0".
and indicates that a button has been lost by the HIL driver, so that the
X server has seen two consecutive button down or button up codes.

Cause:
The HIL driver has a finite sized buffer. If the X server is busy and
does not read from that buffer, and the user continues to move the mouse
it is possible to cause that buffer to overflow. The result is that a
button can be lost and the user needs to press that same button again to
get the server to see it. There is usually no ill effect other than the
irritation of seeing the error message and having to press the button
again.

Temporary solution:
Workaround:

Make sure that standard error output from the server is redirected to a
file so that it does not come to the console. If the server is slow
because it is busy, don't keep moving the mouse or banging on the
buttons in an attempt to get its attention.

KPR #: 3900007716   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Existing SB_DISPLAY_ADDR variale may interfere with X server (s300)

Problem:
For the Windows/9000 product on the s300, users can set the
SB_DISPLAY_ADDR environment variable to specify the location
in user data space where the frame buffer mapping should occur.
This same environment variable can cause the X server to generate
aspurious error message:
"Unable to open the Graphics Resource Manager."
--and then exit.

Cause:
Windows/9000 interprets the SB_DISPLAY_ADDR setting to be in decimal
by default. The X11 server interprets the setting in hexadecimal,
causing unreasonable values for the frame buffer base address to be
passed to the Graphics Resource Manager and the resulting error exit
condition.

Temporary solution:
Remove the SB_DISPLAY_ADDR from your environment before running X
Windows.

    From 'csh', use: unsetenv SB_DISPLAY_ADDR
    From 'sh' and 'ksh' use: unset SB_DISPLAY_ADDR

KPR #: 3900007724   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Gwind can hang when large number of windows are created.

Problem:
This defect can cause the gwind daemon to hang. gwind hangs when a
about 50 graphics windows have been created. This is an unusually
high number for a user, but not out of the question. This is a low
frequency defect, with serious consequences.

We have placed a warning in our update info file stating: Using more
than 24 graphics windows at the same time can cause the gwind program to
hang. Killing the gwind process is the best way to restore the ability
to create graphics windows for starbase applications.

Temporary solution:
Workaround:

The workaround is to kill the gwind process. This destroys the graphics
windows and allows the user to start creating graphics windows again.

Signed off 02/08/90 in release C02.00

KPR #: 3900007732   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
Certain bitmap(s) does not tile correctly as a root background (s300)

Problem:
A particular bitmap is not rendered correctly when used as a root
window background and there are clipping rectangles to the left. We
have not seen this defect with all bitmaps.

Temporary solution:
Workaround:

If the user has control over the windows that generate the clip
rectangles then moving those windows can be a workaround. Similary
if the user can control the bitmaps, then there may be a different
bitmap that is usable and work as it should. It is conceivable that
for some users there will not be a workaround.

Signed off 02/08/90 in release C02.00

KPR #: 3900007740   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
xset gives error if pixel value is used outside of range 1-255.

Problem:
On direct color systems like the TurboSRX, if a large pixel value is
used an error condition is generated. The expected behavior is that
this operation should work.

Temporary solution:
No workaround.

Signed off 02/08/90 in release C02.00

KPR #: 3900007757   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
xwud does not use the colors saved; it uses just the pixels

Problem:
Xwd saves the window contents along with the colormap; however, when
xwud displays the saved contents, it ignores the colormap and instead
uses the pixels.

Temporary solution:
No workaround.

Signed off 02/08/90 in release C02.00

KPR #: 3900007765   Product: X11 WINDOWS 6.5/3.1 B1152B   00.03

One-line description:
HPwm leaves X server grabbed and forgets pending resize if menu pops up

Problem:

KPR #: 3900008995   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
On SRX and TSRX, XGetVisualInfo incorrectly reports bits_per_rgb as 4

Problem:
The problem is in line 319 of xosDD.c

Temporary solution:
No workaround - Fixed in next release

KPR #: 3900009001   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
xwcreate cannot create windows on multiple servers

Problem:
The gwind daemon in 7.0 only creaed a pointer cursor for the first windo
w generated by a call to xwcreate and then attempted to share it with
all subsequently created windows. Since this will only work correctly fo
r windows residing on the same display:screen combination as the first
window, a non-fatal X protocol error was generated.

Temporary solution:
No workaround - fixed in next release

KPR #: 3900009019   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
mkfontdir doesn't unlink fonts.dir before creating new fonts.dir

Problem:
If two font directories are linked together, the server may get mixed up
in finding the correct location of a font file

Cause:
mkfontdir should rm the fonts.dir file before it writes a new one

KPR #: 3900009027   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
cvtINT16ToInt in XGetMotionEvents causes cc to abort

Problem:
There is a typo in the source code for libX11.a, specifically in the
for the routine XGetMotionEvents(). In this routine, there is a
reference to the macro "cvtINT16toInt", which is misspelled as
"cvtINT16ToInt". As aresult, any X program which calls XGetMotionEvents(
will fail to compile with the message:
ld: Undefined external -
_cvtINT16ToInt
ld: output file still contains undefined symbols
ld: (Warning) did not generate an output file
unless you add the include file <X11/Xmh.h> to your program,
and also include a bogus subroutine which effectively
cvtINT16ToInt to cvtINT16toInt.

KPR #: 3900007765   **CONTINUED**

dpwm forgets about a pending window resize operation and leaves the X
server grabbed if a button press causes a menu to pop up during the
resize. The following line of my button bindings causes a menu to pop
up for button 3 presses in the window frame area. If I start a resize
with a menu then press button 3 while over a frame area the pop up menu
is displayed. When button 3 is released the menu is removed and the
resize is no longer occuring. The server is still grabbed, preventing
clients from running.

Temporary solution:
The window manager will ungrab the server if another resize is done on
any window.

Signed off 02/08/90 in release C02.00

KPR #: 3900007849   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
All special properties have parsing problems in xfc.

Problem:
The validity of data specified for special properties is not checked by
xfc.

Temporary solution:
Workaround:

The user must ensure that special property data is correct.

Signed off 02/08/90 in release C02.00

KPR #: 3900007872   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
Bitmap with-nodashed, then do invert all results in lines becoming dots

Problem:
Using bitmap with -nodashed, then do invert all results in lines
becoming dots.

If bitmap is started with the -nodashed option and the user then
specified 'invert all', the solid lines become dots.

Temporary solution:
No workaround.

Signed off 02/08/90 in release C02.00

KPR #: 5000476838   Product: X11 WINDOWS 6.5/3.1   B1152B   00.03

One-line description:
Duplicate reference to _bcopy in libX11.a and libndbm.a

KPR #: 3900009084 **CONTINUED**

exists a grmd+ cdf in /usr/spool/sockets and removing it.

KPR #: 3900009092   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
sys.Xdefaults lacking colon in line for "HPterm*Font   <font>"

Problem:
The sys.Xdefaults file shipped at 7.0 has a line that reads:
      ! HPterm*Font   <font>
This line is wrong because it is missing a colon ':' after Font:
      | HPterm*Font: <font>

Temporary solution:
Add colon (:) at end of word Font:
      | HPterm*Font: <font>

KPR #: 3900009100   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpterm may leave highlighting on in erased regions

Problem:
If there is a color change (e.g., ^[&v4S) or inverse video
(e.g., ^[&dB) on a line, but no text, and the line is deleted with
the [Clear dislay] button, the color property remains set.

KPR #: 3900009118   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
Xos.h needs to default to SYSV, not Berkeley stuff

Problem:
The file Xos.h should be tailored to our hp-ux system a bit better.
Possibly,the xos.h file should have the defines for SYSV removed.
This will aid its use when included by customers.

For example, if a customer does not define SYSV in their program,
the Xos.h file does an include of <strings.h>,
and this file does not exist on hp-ux systems.

KPR #: 3900009126   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
TextEditP.h: extra characters after #endif

Problem:
Submitter claims that ANSI-C does not allow non-comment tokens to
follow an #endif.
Therefore, change:
      #endif _XtTextEditPrivate_h

to   #endif /* _XtTextEditPrivate_h */
     in /usr/include/Xw/TextEditP.h

                              - X11 WINDOWS 7.0 -

KPR #: 3900009027 **CONTINUED**

Temporary solution:
include this text in program:

cvtINT16ToInt(a)
int a;
{
return cvtINT16toInt(a);
}

KPR #: 3900009050   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
XGetPixel returns invalid data for 98547S Topcat 300h:6 double buffer

Problem:
When a topcat hexagon is run in double buffered mode, and
the XGetPixel routine is called, a "whitepixel" value
is returned as 0x9 (binary 00 100 100). The upper
three bits of the double buffered value are not being
masked off properly (by the XGetPixel xlib routine).
It should read 00 001 001.

KPR #: 3900009068   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
XErrorDB does not include any error information for errors over #127

Problem:
Xlib does not sufficiently check when using the error messages
from XErrorDB. XErrorDB only has 127 error messages and error number
greater than 127, the message is garbage.

Temporary solution:
It is possible to create your own error handler in Xlib adn it
would be possible to trap errors greater than #127

KPR #: 3900009076   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpterm when maximized does not handle geometry changes when [Menu] on

Problem:
When an hpterm window is maximized (under mwm or hpwm) and then the
[Menu] key is toggled on/off; strange things happen to the window's
geometry and the original size and position of the window is lost.

KPR #: 3900009084   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
old style (pre 7.0) grmd+ socket not removed by AGRM customize script

Problem:
The AGRM fileset presently does not have a customize script.
It needs one and that script should change any old-style sockets for
the grmd to the current style. This involves checking to see if there

                              - X11 WINDOWS 7.0 -

KPR #: 3900009159   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
Changing XtNhighlightThickness on static raster causes X Protocol error

Problem:
When the height, width and highlightthickness are changed on a static
raster widget, the following error is produced:

< Protocol error detected by server: parameter not a GC
   Failed request major op code 70 X PolyFillRectangle
   Failed request minor op code 0 (if applicable)
   ResourceID 0xc00008 in failed request (if applicable)
   Serial number of failed request 155
   Current serial number in output stream 165

KPR #: 3900009183   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpterm (block mode) loses character on read from cursor to end of line

KPR #: 3900009191   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpterm (7.0) does not read correctly from specified column to end of lin

Duplicate Service Requests: 3900009209

KPR #: 3900009217   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpterm 7.0 does not display alternate character set with curses program

KPR #: 3900009225   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
Memory leak when create/destroy PromptDialog widget; Motif 1.0

KPR #: 3900009233   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
Problems reading with Esc-D in hpterm block mode

Fix Information:
A new hpterm has been made available on the patch machine in Fort
Collins.

KPR #: 3900009571   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
XHPGetClipList trashes malloc data

Problem:
XHPGetClipList keeps a count of the number of allocated rectangles in a
clip list. According to the comment in the function the count is a four
byte integer.

KPR #: 3900009571

The first four bytes of the allocated memory contain a count of the
number of clipping rectangles the block can hold. The user is
returned a pointer to the remainder of the memory block which contains
the actual clipping rectangles.

In the code the count is actually kept in a signed char. The result is
that when the count reaches 128 the signed char wraps to a negative
number. The count is then cast to an unsigned int, resulting in an
enormous number when comparing to test for a need to realloc. The clip
list is never reallocated when it should be, and the list data clobbers
malloc pointers. This can result in core dumps, infinite loops, and
other bad behaviors.

KPR #: 5000535153   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpblkterm does not warn user that lines are being lost in TDP buffer

KPR #: 5000552307   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
xterm with -title option does not work properly and not equiv to -T

KPR #: 5000554493   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
xterm does correctly emulate the function keys of the VT100/102 term

KPR #: 5000557215   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
xterm - selecting "Interrupt" from xterm menu can cause system problems

KPR #: 5000557223   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
hpterm does not refresh Keyboard mapping after receiving MappingNotify

Problem:
hpterm does not refresh Keyboard mapping after receiving MappingNotify
and may end up issuing wrong key symbol for any given key that has
been re-mapped.

Cause:
This is not really an hpterm problem since hpterm relies upon
Xt, the X Toolkit Intrinsics from MIT, to get keyboard input.

There is a bug in Xt such that is does not correctly handle
MappingNotify events

KPR #: 5000573956   Product: X11 WINDOWS 7.0   B1152C   02.00

One-line description:
Xlib-line width 0 and PlaneMask set to other than AllPlanes - no line

Product name	Product number	uu.ff	prev
LAN MANAGER/X S300	B1003A	01.00	00.00
S/300 NET NODE MGR	B1009A	01.00	00.00
S/300 TCP/IP AGENT	B1010A	01.00	00.00
S2/300 SRM ACC/HPUX	98693A	06.20	05.10
S200 NETWORK SERVICE	5095YA	05.10	00.00

Product name	Product number	SSB ISSUE DATE	Page
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Product name	Product number	SSB ISSUE DATE	Page
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- S2/300 SRM ACC/HPUX -   SSB ISSUE DATE: 11/20/90

Keyword   Product number   uu.ff Description   KPR number page

xxxxxxxxnonexxxxxxxx 98693A   06.20 srmcp reports "unknown SRM error 31041" when HP Basic/UX locks same file 4000091777 1

KPR #: 4000091777   Product: S2/300 SRM ACC/HPUX   98693A   06.20

One-line description:
srmcp reports "unknown SRM error 31041" when HP Basic/UX locks same file

Temporary solution:
Here are some work arounds for this problem.

1. Retry the srmcp command later whenver the 31041 error is seen.

2. Avoid accessing the same files with srmcp and HP Basic/UX.

3. Use some synchronizing mechaism on HP-UX to ensure that
    srmcp and HP Basic/UX do not access the file at the same time.

4. Move the srmcp and HP-Basic/UX activity onto separate HP-UX
    systems.

- S2/300 SRM ACC/HPUX -

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Service Request Form

SR #_____ (HP only)

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(e.g. E, F, XL, Model 5)   (e.g. RTE-IVB)

Product Name _____ Rev. _____
(e.g. BASIC, IMAGE/1000, etc.)

Problem Description: (include environment, symptoms, what you were trying to do, what went wrong, and any other information that might be helpful. Also include hardware configuration and date codes when applicable.)

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Supportive documentation included with report. (Media must be labeled.)

MEDIA   DESCRIPTION

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Mail to your closest Response Center

All fields required

Rev. 2
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