

HP9000 SERIES 200/300 PASCAL

SOFTWARE STATUS BULLETIN

(SSB)



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SOFTWARE STATUS BULLETIN - 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 is one SSB report contained in this edition.

Section 1 - General Series 200/300 Pascal operating system and the HP2392A/ VT100 Terminal Emulator

The report consists of five parts as listed below. The 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 I 1)

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 I 2)

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 I 3)

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

4 Product-Keyword (pg I 4 - I 5)

This index is a *Product-Keyword* sort of SR's. Each entry has a *one line description* of the SR and gives the page on which it is found.

5 Detailed SR Reports (pg 1 - 23)

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

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KPR #: 4000020396 Product: HP2392A/VT100 TE 98791B

02.00

Keywords: ATERM

One-line description:
"Logical Start-of-Text" not being set for uploaded text

Problem:

The LOGICAL START OF TEXT is not being set for uploaded text. Problem occurs when ENTER key is used to (re)transmit uploaded screen-text to the host.

Logical-SOI for any given line has unknown, possibly non-zero value. If non-zero, entire line is NOT transmitted.

Fix information:
May be fixed in a later release

KPR #: 4000020404 Product: HP2392A/VT100 TE 98791B

02.00

Keywords: ATERM

One-line description:

CAPS key doesn't shift numeric keys on some keyboards

Problem:

ITF keyboards that have shifted numeric keys (e.g. Italiana, Vlaams, French) do not generate numbers when CAPS is locked. SHIFT key must be explicitly pressed to get numbers.

Temporary solution:

Press SHIFT to get shifted values instead of using CAPS key.

Fix information:
May be fixed in a later release

KPR #: 4000020420 Product: HP2392A/VT100 TE 98791B

02.00

Keywords: ATERM

One-line description:
RPG knob not disabled when VT52 mode entered

Problem:

Using the internal knob or attached HIL knob, the knob is not disabled in VT52 mode the same as it is in VT100/ANSI mode. The knob can be used to move the cursor left and right in both modes, but VT52 also allows vertical scrolling.

Temporary solution:
Use ARROW keys for vertical scrolling instead of knob.

Fix information:
May be fixed in a later release

- HP2392A/VT100 TE -

KPR #: 4000020438 Product: HP2392A/VT100 TE 98791B

02.00

Keywords: ATERM

One-line description:
CAPS key cancels pending mute in mute/CAPS/vowel combination

Problem:

Special foreign characters can be produced by first pressing the diacritical character followed by the character itself (usu. a vowel). If the CAPS key is pressed *after* the mute with the intention of generating a capitalized vowel, the mute is lost and only the shifted normal character is produced.

Temporary solution:

Either press CAPS before the mute character or use SHIFT for the vowel.

Fix information:
May be fixed in a later release

KPR #: 4000029579 Product: HP2392A/VT100 TE 98791B

02.00

Keywords: DATACOMM

One-line description:

LOCAL ECHO is always reset to OFF when entering VT100 mode

Problem:

LOCAL ECHO parameter in the terminal configuration menu is always forced to OFF when changing to VT100 mode. Effect of using saved configuration of LOCAL ECHO is lost when VT100 mode entered.

Temporary solution:
Manually reset LOCAL ECHO to OFF after VT100 mode entered.

Fix information:
May be fixed in a later release

KPR #: 4000030254 Product: HP2392A/VT100 TE 98791B

02.00

Keywords: ATERM

One-line description:

emulator INITT (initlib) fails to set up compatibility & native displays

Problem:

Configuration:

HP2392/VT100 Terminal Emulator, rev. 2.0.
Any Series 300 System running the Terminal Emulator which contains both native (bitmapped) and Compatibility Display Interface.

Problem description:

- HP2392A/VT100 TE -

KPR #: 4000030254 **CONTINUED**

When booting the emulator environment disc in a system which contains both bitmapped (native) display and compatibility display, the system will not enable and properly display to the bitmapped device. The problem occurs because the initlib file shipped with the system contains drivers for both the bitmapped and compatibility displays. This causes no problems as long as both displays are not present (as in most systems) but when both are present neither display is properly set up.

Temporary solution:
Use the Pascal Librarian to generate a new Initlib that contains *either* the CRTA (for Compatibility display) or CRTB/C/D (Native Bitmapped display), depending on which is actually needed.

Fix information:
May be fixed in a later release

KPR #: 4000033915 Product: HP2392A/VT100 TE 98791B 02.00

Keywords: ATERM

One-line description:
home key sends <ESC>H; real 2392 (and 26xx) terminal sends <ESC>h

Problem:
HOME key transmits <ESC>H - this is incompatible with 2392 terminal.
Proper esc-sequence should be <ESC>h

Fix information:
May be fixed in a later release

KPR #: 5000122036 Product: HP2392A/VT100 TE 98791B 02.00

Keywords: ATERM

One-line description:
:EOD will not terminate FCOFY/3000 at baud rates higher than 300

Problem:
When running the Terminal Emulator to upload to a HP 3000 from a 9920, running Pascal 3.01, if the EOF: field is set to a "control Y" or a ":EOD" both of which will, at least supposed to end the fcopy, the ":EOD" will not work at baud rates higher than 300. At 2400, in following the procedure for FCOFY (page 139) in (98790-90001) manual and having the configuration all set up to the 3000, the upload takes place and then the :EOD never appears on the screen at the eof. Also watching the line, with analyzer, it appears that the DI (host prompt) never comes to the 9000 and the :EOD is lost somewhere, and sometimes the OD would appear. At 300 baud rate it works (at least it appears on the screen, and the user must hit a carriage return to end the upload). The "control Y" works here at 2400 and at 300.

Temporary solution:

KPR #: 5000122036 **CONTINUED**

Set "UPLoad EOF:" to "control Y" (for any other single character); Works at 2400 and at 300 baud.

Fix information:
May be fixed in a later release

KPR #: 5000132522 Product: HP2392A/VT100 TE 98791B 02.00

Keywords: ATERM

One-line description:
Run 3278 emulator followed by VT100, cursor disappears

Problem:
After running the 3278 emulator, the small cursor will not work on the VT100 Terminal Emulator. If, after running the VT100, you then return to a full Pascal 3.1 system, there is NO cursor. You must re-boot to get back the cursor. If you run just ONE emulator, then the cursor works fine when returning to a full Pascal system.

Temporary solution:
Reboot machine after using 3278 emulator in order to ensure small (underline) cursor is available for 2392 emulator.

Fix information:
May be fixed in a later release

KPR #: 1650056945 Product: PASCAL 3.23 DOC 98617-87901 03.20

One-line description:
CHR function does not work with variables

Problem:
User wanted to put a checksum at the end of a string. The checksum number was calculated within the program but user found that an error was caused by trying to convert it to a string using the CHR function. The CHR function worked with a number but not with a variable.

Fix information:
May be fixed in a future release.

KPR #: 4000019034 Product: PASCAL 3.23 DOC 98617-87901 00.00

One-line description:
Page 351 of Lang. Ref. incorrect

Problem:
Configuration:
9000 series 200. HP Pascal Language Reference Manual. 98615-90050, Feb. 1984, edition.

Problem description:
The example program on page 351 of the HP Pascal Language Reference Manual is not consistent with the note above it. The KEYBOARD and LISTING standard text files should be declared in the VAR section of the example program. As the example now stands, the compiler gives error 104 at line 9. An added declaration,
KEYBOARD, LISTING: TEXT;
between lines 4 and 5 of the example will correct it.

KPR #: 4000096040 Product: PASCAL 3.23 DOC 98617-87901 03.22

Keywords: DOCUMENTATION

One-line description:
Add \$ALLOW_PACKED ON\$ to Proc. Lib Examples pg: 15-5, 15-7

Problem:
Add \$ALLOW_PACKED ON\$ to Proc. Lib Examples pg: 15-5, 15-7.

Fix information:
May be fixed in a future release.

KPR #: 4000096057 Product: PASCAL 3.23 DOC 98617-87901 03.02

One-line description:
Doc needed for strread parsing rules. P. 14.10 in WS Vol II.

Problem:
Doc needed for strread parsing rules P. 14.10 in WS Vol II.

Fix information:
May be fixed in a future release.

KPR #: 5000096826 Product: PASCAL 3.23 DOC 98617-87901 03.00

Keywords: DOCUMENT

One-line description:
SDG incorrectly references a record element that does not exist.

Problem:
User was referencing the SDG on p290. He was trying to access SYSCOM.CRTINFO.MAXY and was getting error 104 upon compilation.

Fix information:
May be fixed in a future release.

KPR #: 5000216887 Product: PASCAL 3.23 DOC 98617-87901 03.01

Keywords: DOCUMENTATION

One-line description:
Procedures in the SDG are improperly documented.

Problem:
There is a problem with the Pascal System Internals Documentation and the associated "EXAMPL:" disc. Customer was trying to take advantage of the documentation in Chapter 6 ("File Operations") of the SDG (Ref. 3.0/3.1), but cannot get module FILEPACK supplied on his EXAMPL: disc to compile. Specific problem is as follows. Attempt to compile procedure SETUPFIBFORFILE in module FILEPACK results in compiler error 154, "Illegal argument to match pass by reference parameter". The error is generated when the line containing a reference to function SCANTITLE is encountered. The offending argument is (at least) FVID, whose ultimate type cannot be found in the source code. This problem does not occur when the 3.0 Revision of the Pascal OS is used to compile FILEPACK.



KPR #: 1650003558 Product: PASCAL OP SYS 98617A 03.10

Keywords: COMPILER

One-line description:
Compiler will not accept (. .) notation correctly.

Problem:
In the pascal manual it is stated that strings may be defined using either: s:string[20] or s:string(.20.), the latter definition does not work on our system, and it is very annoying to us because we use 8 bit keyboard and our native language uses [] for national characters.

Cause: This problem was caused by a defect in the compiler source.

Fix information:

This defect has been repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 1650011312 Product: PASCAL OP SYS 98617A 03.11

Keywords: PASCAL

One-line description:
Scrolling a debugger window one line high corrupts display on S300

Problem:
Scrolling of a debugger window one line high corrupts PASCAL 3.1 system on 300 series. The effect is easily seen by setting ymin-ymax in procedure "opendbwindow" in example program CRT11. The debugger window is described in Procedure library on page 243 under "system devices".
On a 9836 there is no problem.

PICS ID: P460234

Fix information:
Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 1650017434 Product: PASCAL OP SYS 98617A 03.11

Keywords: COMPILER

One-line description:
PASCAL Compiler will ignore lines in a program.

- PASCAL OP SYS -

KPR #: 1650017434 **CONTINUED**

Problem:

The PASCAL compiler may ignore lines in a program. This occurs if a file has been edited on a monitor capable of displaying lines greater than 110 characters. If a comment extends past the 110th position, all subsequent lines are ignored until the compiler sees a closing bracket "}". There appears to be no warning in either the compiler output or the documentation.

Fix information:

Fixed in the Pascal Language Reference, Edition 3, December 1988. Fixed in release 3.22.

Signed off 10/16/90 in release A03.22

KPR #: 1650042184 Product: PASCAL OP SYS 98617A 03.01

Keywords: CLOCK

One-line description:
The system clock is not valid after the year 1999.

Problem:

Here is a bug and a requirement:
- The customer set the clock with the setsysdate command. If he sets the clock to 16-01-100 (= 16-Jan-2000) and then reboots the system with SHIFT RESET (without power off/on), the system hangs up and only power off/on can reboot the system. The clock programs of the PASCAL system have some limits concerning the year 2000 and greater. A date greater than 1999 is a very difficult date.
- The internal clock can't be set to a date greater than 21-12-99 with the V-command. The customer must have a clock greater than the year 2000. He can't accept the limitation, it is a military application with a life time over 15 years. They must guarantee a clock setting and reading till the year 2015 (inclusive).

Fix information:

Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 1650048447 Product: PASCAL OP SYS 98617A 00.00

One-line description:

Pascal does not recognize write protect on diskettes

Problem:

HARDWARE : HP SERIES 300, HP 9133
OP.-SYS. : PASCAL 3.1

PROBLEM : 1. I USE THE SAME NAME 'B9826' FOR A FLOPPY IN #3: AND

A SOFTVOLUME #11: ON HP 9133. WHEN I WRITE PROGRAMATI-CALLY TO A FILE '#3:FILENAME' ON A WRITEPROTECTED FLOPPY, THE SYSTEMS WRITES THE FILE TO #11: WITHOUT MESSAGE, ALTHOUGH SPECIFYING #3:.

- PASCAL OP SYS -

KPR #: 1650048447 **CONTINUED**

2. THE 'SAME' HAPPENS IF THERE IS NO ROOM ON THE FLOPPY.

Fix information:

The code changes needed to fix this defect were implemented in version 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 1650054635 Product: PASCAL OP SYS 98617A 03.12

One-line description:
Illegal CPU instruction when write integer to file of reals.

Problem:
This SR concerns the writing of INTEGERS to a file of REALS. The compilation goes fine, but at runtime value range error occurs. The customer uses HP330 computer and PASCAL 3.2.

```
$DEBUG ON$
PROGRAM T(INPUT,OUTPUT)
VAR I: INTEGER;
    F: FILE OF REAL;
BEGIN
    REWRITE(F,"AAA");
    FOR I:=1 TO 10 DO
        WRITE(F,I);
    CLOSE(F,'PURGE');
END.
```

Cause:

Caused by a defect in the compiler source.

Fix information:

This defect was repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 1650054643 Product: PASCAL OP SYS 98617A 03.02

One-line description:
HEX('0') within ARRAY declarations will not compile

Problem:
Consider next program:

```
PROGRAM BUG
VAR A: ARRAY[ 0 .. HEX('OFF')] OF INTEGER;
    B: ARRAY[HEX('0') .. HEX('OFF')] OF INTEGER;
```

- PASCAL OP SYS -

KPR #: 1650054643 **CONTINUED**

END.

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COMPILE AND COMPILE20

VAR B will not be compiled.

Cause:

This defect was caused by an error in the source.

Temporary solution:

For hand generated code, an obvious workaround is to not use the binary, octal or hex functions when specifying an array lower bound.

For program generated code, if an array lower bound MUST be specified with the binary, octal or hex functions, I would recommend that the binary, octal or hex function be used instead to define a constant which in turn can be used to specify the array lower bound.

Fix information:

This defect has been fixed by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 1650073122 Product: PASCAL OP SYS 98617A 03.21

One-line description:
98550 display interface does not work properly

Problem:
- If the STOP key is pressed during a scroll operation, the content of the display, the character font and the color tables, are usually clobbered. The only way to restore normal condition is a power-cycle.
\$UCSD\$
PROGRAM Bug98550A(OUTPUT);
VAR I: INTEGER;

- PASCAL OP SYS -

KPR #: 1650073122 **CONTINUED**

```

C: CHAR;
BEGIN
FOR C='P' TO 'P' DO BEGIN
GOTOXY(0,0);
WRITE('New char ord: ', ORD(C), ' ');
GOTOXY(0,25);
FOR I:= 0 TO 125*50-1 DO WRITE(C);
END;
FOR C='I' TO 'I' DO BEGIN
GOTOXY(0,0);
WRITE('New char ord: ', ORD(C), ' ');
GOTOXY(0,25);
FOR I:= 0 TO 125*50-1 DO WRITE(C);
END;

```

Fix information:
Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 1650076745 Product: PASCAL OP SYS 98617A 03.21

One-line description:
Screen dump to ThinkJet does not work correctly

Problem:
Configuration: 9000/310 with 35741A medium-resolution monitor, ThinkJet printer, and Pascal 3.2.

Reports that using OUTPUT_ESC with parameter 54 gives a garbled output on the printer. The top half of the screen dump appears correctly, but then a very small character set is printed, followed by an apparently random pattern of dots over the page. There were no problems using earlier releases of Pascal.

Fix information:
Fixed in revision 3.22.

Signed off 05/31/89 in release A03.22

Duplicate Service Requests: 1650076802

KPR #: 1650076794 Product: PASCAL OP SYS 98617A 03.21

One-line description:
Screen does not scroll properly with the debugger with 98550A

Problem:
The customer is using a 319 with Pascal 3.21, but he is considering an upgrade to 360 or 370 computers in the future. He has discovered problems with the screen scrolling in the debugger window. When the screen is scrolled up or down the colour disappears, and a left/right scroll changes the character set.

Known Problem Reports as of 10/22/91

KPR #: 1650076794 **CONTINUED**

He believes that the problem has been caused by changes to the screen drivers that have not been incorporated into a new INTERFACE text file. No new INTERFACE text file was incorporated into Pascal 3.21.

He has a workaround for the 319, but he is looking for an assurance that the problem will be fixed for the release of Pascal that will support the 360 and 370.

Fix information:
Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 1650079020 Product: PASCAL OP SYS 98617A 03.22

One-line description:
OSINSTALL does not work properly

Problem:

A static overlay used by OSINSTALL for the directory structure. This overlay assumes a certain size for the secondary loader. With release 6.5 of HP-UX, the secondary loader increased in size, yet the PWS 3.22 secondary loader did not change. When PWS was added to the boot list for a 6.5 HP-UX system, the size placed in the directory of the secondary loader was not correct. When the BOOT ROM loaded the secondary loader not all of it would get into memory.

This defect has been repaired for the 3.23 version of the Pascal Workstation.

Cause:

Mixing HP-UX 6.5 and PWS 3.22 secondary loaders.

Temporary solution:

To use the Pascal Workstation revision 3.22 and earlier versions of OSINSTALL with all versions of HP-UX through revision 6.5.

- 1) Install or update the HP-UX system, if you need a newer revision.
- 2) Install Pascal and BASIC, if these need to be installed and are not currently on the disk.
- 3) Reboot into Pascal, if you are not currently in it. You may need to reboot from flexible disk. If so, execute HFS_DAM (on HFS: or HFS1: disk) and then execute TABLE from your boot disk.

- 3) Execute OSINSTALL. Zero the boot directory of the disk. Install all the boot files for the systems that you need (these may include SYSPUX, SYSBACKUP, SYSDEBUG, SYSTEM_B and SYSTEM_P, etc.)

KPR #: 1650079020 **CONTINUED**

All systems should now boot correctly.

Fix information:

Thank-you for submitting this defect against the Pascal Workstation. It has been repaired for the version 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 1650109066 Product: PASCAL OP SYS 98617A 03.22

One-line description:

Positions of commas can create compiler errors

Problem:

Cause: Defect in the compilers handling of import text.

Defect in the compilers searching of import text.

Fix information:

This defect was repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 1650165068 Product: PASCAL OP SYS 98617A 03.23

Keywords: PASCAL

One-line description:

IORESET necessary after timeout with HFS needs to be added to manual.

Problem:

Using SET_TIMEOUT configures an interface for a timeout value. If a timeout occurs, then the interface retains the timeout value. The interface is also left in a state that is unknown (depends on the cause of the timeout)or IORESET function after a timeout has occurred.

Temporary solution:

Use the IOUNITIALIZE or IORESET function after a timeout has occurred.

Fix information:

Fixed in release 3.25.
Fixed in release 3.25.

Signed off 10/17/91 in release A03.25

KPR #: 400022780 Product: PASCAL OP SYS 98617A 03.11

Keywords: COMPILER

One-line description:

Compiler does not trap out of range values for typed record constants.

Problem:

Configuration:

Minimum bootable Pascal Workstation for Pascal code development, series 200/300, Pascal, rev. 3.1
Compiler does not perform adequate type/bounds checking in structured constants.

In the following code, the string assignments to the structured record constant will not be treated as an error; overwrites will occur in the resulting code file. The simple constant is correctly treated as erroneous.

PROGRAM bug;

TYPE string10 = STRING[10];

TYPE structure = RECORD
field1, field2: string10;
END;

CONST should_be_bad = structure[field1: 'pppppppppppppppppppppp',
field2: 'qqqqqqqqqqqqqqqqqqqqq'];

CONST is_bad = string10['pppppppppppppppppppppp'];

BEGIN
END.

Fix information:

The code changes needed to fix this defect were implemented in version 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 4000083949 Product: PASCAL OP SYS 98617A 03.10

Keywords: SRM

One-line description:

Directory marked shared after file under changed

Problem:

When the Pascal filer is used to change the name of an SRM file, it may leave a file open on the SRM. The file that is left open is the directory containing the file whose name is being changed. This

KPR #: 4000083949 **CONTINUED**

is usually not a serious problem, but it may interfere with certain operations on the file that is left open. For example, it will not be possible to add a new password until the file is closed.

The following is a stream file that demonstrates the problem:

-Uenter #unit:path for test dir. on 1st SRM
* Stream file to demonstrate that FAWS 3.1 Filer 'Change' cmd leaves
* a file open. For @U, enter something like #5:/DIR1/DIR2, where
* DIR1 exists already but DIR2 does not.

F MD@U
Q
F MD@U/TEMP1
C@U/TEMP1
TEMP2
Q

It is possible to close the file with Initialize at the main command level or with REMOVE_USER at the SRM console.

Fix information:

Fixed in revision 3.22.

Signed off 05/31/89 in release A03.22

Duplicate Service Requests: 4000090498

KPR #: 4000090092 Product: PASCAL OP SYS 98617A 03.02

One-line description: UCSD_AM does not p-load itself, and could crash system.

Problem: UCSD_AM does not p-load itself, and could crash system.

Fix information: Thank you for reporting this defect. It has been fixed in Pascal Workstation release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 4000090258 Product: PASCAL OP SYS 98617A 03.01

One-line description: System does not recognize SRM card with remote switch set

Problem: System does not recognize SRM card with remote switch set.

Fix information:

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KPR #: 4000090258 **CONTINUED**

Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 4000090365 Product: PASCAL OP SYS 98617A 03.21

One-line description: Debugger Rev. Asm of DC.W shows incorrect data

Problem: Debugger Rev. Asm of DC.W shows incorrect data.

Fix information: Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 4000091439 Product: PASCAL OP SYS 98617A 03.21

One-line description: Can not programmatically adjust screen height.

Problem: Using a program similar to CRT4 provided on the DOC disk, I attempted to shorten the height of the display screen on a CATSEYE display and wasn't able to do it. This program works on ALPHA displays and on the BOBCAT displays.

Fix information: Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 4000091447 Product: PASCAL OP SYS 98617A 03.02

One-line description: System loses track of display cursor.

Problem: While editing a file, place the cursor at the beginning of some line in the middle of the file. Insert some text, following it with some blank spaces so that there is a gap between the string at the beginning of the line and the subsequent string. Place the cursor at the start of the line and remove the string there by replacing the string characters with blank spaces using the exchange command.

The line should now have a bunch of blank spaces with a

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KPR #: 400091447 **CONTINUED**

cursor in the middle of them followed by some text. Without moving the cursor, enter Delete, then the back space key. The cursor should backspace one character. Instead, it will go to the end of the previous line and backspace the same number of spaces that it had been from the left margin (left margin =0) before the Delete command was executed.

I have noticed this with the PASCAL 3.1/3.2 EDITOR as well as with our Tech Writer (Rev. 1-2).

Fix information:
Thank you for bringing this defect to our attention. Your efforts to improve the Pascal Workstation are appreciated. This defect has been fixed in PWS release 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 400091959 Product: PASCAL OP SYS 98617A 03.02

One-line description:
Not enough field width for displaying block numbers in Bad Block Scan

Problem:
Not enough field width for displaying block numbers in Bad Block Scan.

Fix information:
This defect is fixed in revision 3.22.
Signed off 06/22/89 in release A03.22

KPR #: 400096008 Product: PASCAL OP SYS 98617A 03.22

One-line description:
Defect in compiler listing mechanism with \$TABLES ON\$

Problem:
Defect in the compilers listing mechanism.

Cause:
Caused by a defect in the compiler source.

Fix information:
Signed off 10/16/90 in release A03.23

This defect was repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

KPR #: 400096016 Product: PASCAL OP SYS 98617A 03.22

One-line description:
Rewrite does not allow structured constant to specify filename.

Problem:
Rewrite did not allow a structured constant to specify a filename.

Cause:
Problem caused by a defect in the compiler source.

Fix information:
This defect has been repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 4700888032 Product: PASCAL OP SYS 98617A 03.22

One-line description:
Compiler abnormally terminates with SUCC in conditional.

Problem:
Compiler was not handling the successor function in a conditional properly.

Cause:
Defect in the compiler source.

Fix information:
This defect has been repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 4700888040 Product: PASCAL OP SYS 98617A 03.22

One-line description:
Compiler does not parse hex function in expression properly.

Problem:
Compiler does not parse hex function in expression properly.

KPR #: 4700888040 **CONTINUED**

Hex function was not getting parsed in an expression properly.

Cause:

Hex function was not getting parsed in an expression properly.

Fix information:

This defect was repaired by way of a code change effective with the 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 4700918961 Product: PASCAL OP SYS 98617A 03.22

One-line description:
ADD.1 #5,ea, where ea is not a D-reg gives no error, but garbage.

Problem:

The assembler was not catching an improper addressing mode.

Fix information:

Fixed by way of source code change in release 3.23.

Signed off 06/03/91 in release A03.23

KPR #: 4700965335 Product: PASCAL OP SYS 98617A 03.23

One-line description:
SYSTEM_P crashed on 68000 CPU.

Problem:

SYSTEM_P crashed on 68000 CPU.

KPR #: 470102246 Product: PASCAL OP SYS 98617A 03.02

One-line description:
BACKUP modifies create-date of some files when writing a tape

Problem:

BACKUP modifies create-date of some files when writing a tape.

Fix information:

May be fixed in a future release.

KPR #: 5000141499 Product: PASCAL OP SYS 98617A 03.11

One-line description:
Field width parameter for arrays must be integer type

Problem:

Below is the Pascal program that reproduces the bug.

```

PROGRAM ABC(INPUT,OUTPUT);
TYPE
  FW=ARRAY[BOOLEAN] OF INTEGER;
CONST
  FIELD_WIDTH=FW[10,20];
BEGIN
  WRITE(' ':FIELD_WIDTH[FALSE]); <--Compiler error 686 here, Field
  width parameter must be within range
  0..255.
END.

```

The workaround is to multiply FIELD_WIDTH[FALSE] BY 1 or add 0. This forces the field specification to be evaluated as an integer.

Fix information:

The code changes needed to fix this defect were implemented in version 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 5000195057 Product: PASCAL OP SYS 98617A 03.11

Keywords: PASCAL

One-line description:

Range of a value can alter the correct results

Problem:

```

PROGRAM T(INPUT,OUTPUT);
CONST DESIG_OFFSET = 64;
VAR LINK: CHAR; I : INTEGER; BOOL : BOOLEAN;
PROCEDURE BUGGY(LINK: CHAR;VAR BOOL: BOOLEAN;VAR RESULT: INTEGER);
BEGIN
  IF (ORD(LINK) DIV DESIG_OFFSET > 0) THEN BOOL:=TRUE ELSE BOOL:=FALSE;
  RESULT:=ORD(LINK) DIV DESIG_OFFSET
END;
BEGIN (T)
  LINK:=CHR(95); BUGGY(LINK,BOOL,I); WRITELN(BOOL,I);
  LINK:=CHR(96); BUGGY(LINK,BOOL,I); WRITELN(BOOL,I);
END.

```

This program returns TRUE for LINK-95 and FALSE for LINK-96, with I=1 in both cases. The (ORD(LINK) DIV DESIG_OFFSET > 0) is not being evaluated correctly in the procedure BUGGY.

Fix information:

The code changes needed to repair this defect were implemented in the 3.22 release.

KPR #: 5000195057 **CONTINUED**

Signed off 05/31/89 in release A03.22

KPR #: 5000217273 Product: PASCAL OP SYS 98617A 03.11

Keywords: PASCAL

One-line description:
Sets are 'set' incorrectly under certain conditions

Problem:
Pascal 3.11 compiles sets incorrectly under certain circumstances. This behavior has occurred both with COMPILE and COMPILE20 and has made it necessary to inspect and recompile a significant amount of code.

Fix information:
The code changes needed to fix this defect were implemented in version 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 5000233379 Product: PASCAL OP SYS 98617A 03.20

One-line description:
Compiler generates incorrect code with X := 180 DIV Y

Problem:
Pascal 3.2, COMPILE20, generates bad code for the statement
x := 180 DIV y;

Fix information:
The code changes needed to fix this defect were implemented in version 3.22.

Signed off 05/31/89 in release A03.22

KPR #: 5000272740 Product: PASCAL OP SYS 98617A 03.20

One-line description:
STREAR does not support the full range of integers

Problem:
S/W: PASCAL 3.1, 3.2
ERROR: 125 erroneous argument for builtin routine
SECTION OF PROGRAM:

```
VAR I:BINTVALTYPE; S:STRING[80]; RC:CHAR;
...
WRITE('type a R or C');
READLN(S);
IF STRLEN(S) > 0 THEN STREAR(S,I,I,RC)
IF RC<>'R' THEN RC:="C";
...
```

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KPR #: 5000272740 **CONTINUED**

PROBLEM: error occurs on STREAR referencing var. "I" (next free char) "I" is an integer or integer subrange as syntax manual says, because BINTVALTYPE is -32768..32767 which is an integer subrange. Therefore, this a bug with STREAR procedure.

Fix information:
Documentation has been modified disallowing integer subrange type for the return parameter.

Signed off 05/31/89 in release A03.22

KPR #: 5000485201 Product: PASCAL OP SYS 98617A 03.22

One-line description:
Odd Address error when using \$TABLES ON\$

Problem:

Test program caused the compiler to abnormally terminate. The actual problem, specifically, is that the compiler could not print out the various attributes possessed by conformant array bounds when a listing was requested.

Cause:

The cause of this problem was a defect in the compiler code, in particular the routine to dump symbol information could not handle conformant array bounds.

Fix information:

This defect was repaired by way of a code change in the 3.23 release of the Pascal workstation.

Signed off 10/16/90 in release A03.23

KPR #: 5000520346 Product: PASCAL OP SYS 98617A 03.22

One-line description:

The serial driver (RS232) does not reset interfaces correctly on 360/370

Problem:
This is a timing problem with faster cpu's and the RS232 driver. When the interface is reset with an ioreset, a timing loop is invoked to clear the interface. On the faster cpu, the loop is run through faster than the 25usec that is expected, thus the card is not reset, causing the problem. This only occurs on the 98626 and 98644.

Temporary solution:

Short of using a slower SPU, there is not a workaround for this

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KPR #: 5000520346 **CONTINUED**

problem.

Fix information:

Thank-you for submitting this defect against the Pascal Workstation. It has been repaired for the version 3.23 release of the Pascal Workstation.

Signed off 10/16/90 in release A03.23

KPR #: 5000541417 Product: PASCAL OP SYS 98617A 03.22

One-line description:

Get stack overflow errors with COMPILE / COMPILE20 works without error

Problem:

COMPILER and COMP20 have different restrictions on the amount of local variable space allowed.

Cause:

COMPILER and COMP20 differ in the amount of local variable space they allow.

Temporary solution:

The workaround is to use the more restrictive limits on local variable space required by COMPILER. Such programs then may be compiled with either COMPILER or COMP20.

Fix information:

I modified the documentation to mention that users may notice a difference in the allowable local space between COMPILER and COMP20.



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