



C S L / 1 0 0 0

PROGRAM LIBRARY
OF USER-CONTRIBUTED SOFTWARE
FOR HP1000 SYSTEMS

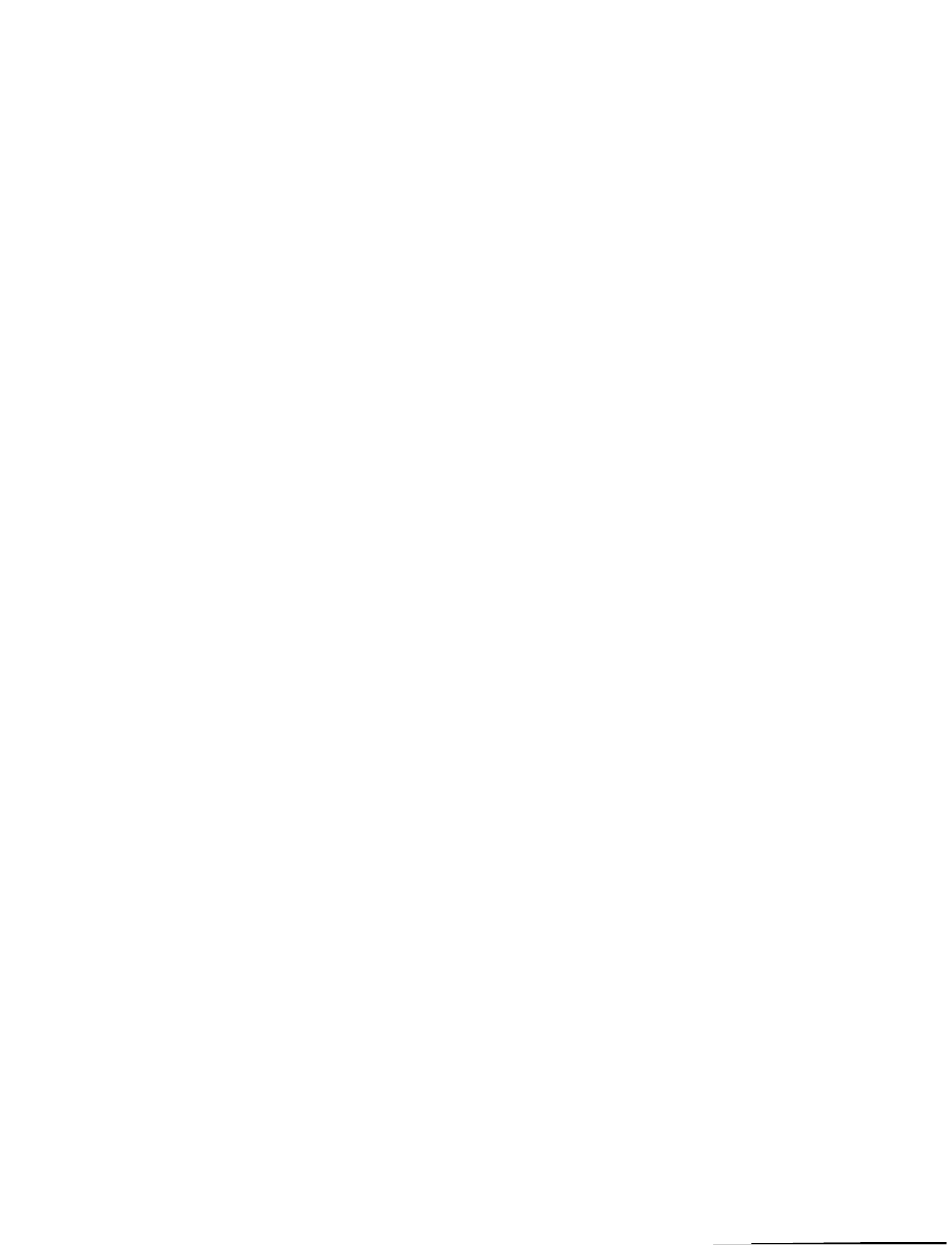
RELEASE TAPE 2533

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The last change itemized reflects the software currently documented.

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N O T I C E

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GENERAL INTRODUCTION

CSL/1000 is the program library of user software for the HP 1000 computer systems. This is a collection of software contributed by users of HP 1000 systems.

Many of the programs contributed to the library are general usage programs, others are oriented to a particular purpose. These contributions provide a good source of problem-solving tools. They may be used directly in an application, or they may give examples of problem-solving methods.

The application programs in the library are supplemented by a large number of system programming utilities, as well as by a few demonstrations and games.

The success of the contributed library rests on two factors:

- (1) The quality of the contributions, and
- (2) The efficient operation of the library itself.

(1) The quality of a contribution is in the hands of the contributor. Complete testing, good documentation, and general carefulness by the user will increase the value and usefulness of a contribution.

(2) The efficient operation of the library involves two major responsibilities:

Maintenance - Accepting new contributions, updating the library with revisions to existing contributions, and maintaining a catalog.

Distribution - Accepting orders, maintaining subscriptions, and duplicating & distributing the library, the catalog, and periodic releases.

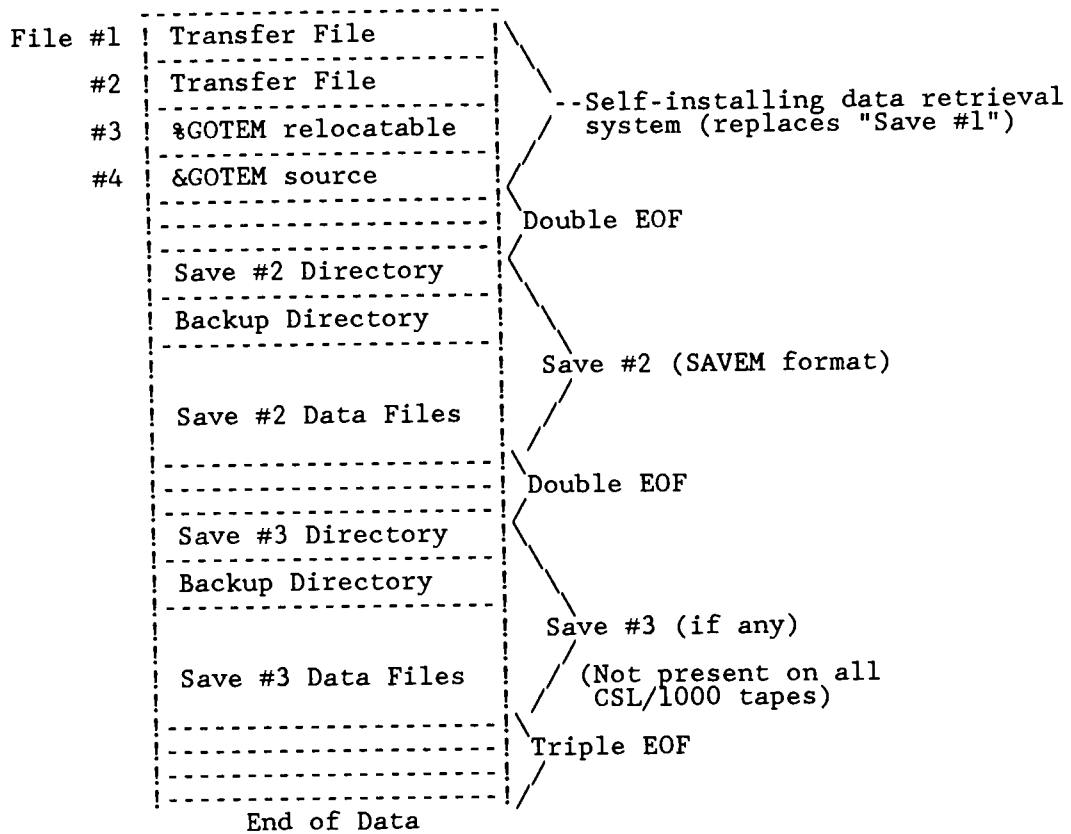
These responsibilities for the CSL/1000 library lie with Interex.

CSL / 1 0 0 0 T A P E F O R M A T

The CSL/1000 Release is contained on a single magnetic tape. The tape holds all contributions being released at this time. Your tape will be in one of two formats, as described below:

Standard 1/2" Computer Tape

The standard 1/2 " mag tape is written in the following format:



The first 4 files, which contain the self-installing data retrieval system, are stored in FMGR 'ST' format. These files replace what would normally be Save #1 on a 'SAVEM' tape. A double-EOF separates each 'Save' on the tape and a triple-EOF terminates the last 'Save'. Each 'Save' contains a directory file, followed by an arbitrary number of data files. The directory files and data files are all stored in a packed binary format (by program SAVEM) and must be retrieved using either program GOTEM. All data files are in FMGR format with 6-character names (see section on File-Naming Conventions).

Besides the contribution files, the CSL/1000 tape contains a full catalog for the release in file #CATLG and a skeleton CSL/1000 submission file in 'SUBMT' (see 'How to Submit a Contribution').

LINUS Tape Cartridge

All CSL/1000 LINUS (CS-80) tapes are written in TF format. Data is retrieved using the HP-supported TF program. All data files are in FMGR format with 6-character names (see section on File-Naming Conventions).



FILE - NAMING CONVENTIONS

Each CSL/1000 contribution is assigned a unique 4-character identifier to identify all the associated files for that contribution on the CSL/1000 tape. This identifier is listed under "CONTRIBUTION NUMBER" in the index and is prominently displayed in the "PROGRAM ABSTRACTS" section of the catalog. All files associated with a given contribution have the "CONTRIBUTION NUMBER" as the first 4-characters of their names.

The file-naming algorithm is simple. File names are of the form:

'ANNMM' where: ANNN is the contribution number.
'A' is a letter code indicating the CSL/1000 release number. Each new release is given a new letter ('J' for release 2533).
'NNN' is the serial number within the release.
MM is the number of the file within the contribution.

The file 'ANNNOO' is always a 'Rename Transfer File' which can be used to rename the files within a contribution to their original names. In FMGR, this is done by ':TR,ANNNOO,<cart>' where <cart> is the FMGR cartridge reference on which the files to be renamed reside. Under CI, the files are copied from a FMGR cartridge to a CI directory and renamed to their original CI names; this is done by TR,ANNNOO,<cart>,<directory> where <cart> is the FMGR crn where the files reside and <directory> is the CI destination directory. (See File-Renaming Instructions for further information.)

The file 'ANNNO1' is always the standard submission file that describes the contribution in detail.

Example: The CSL/1000 release J 35th contribution with 6 files is named:
J03500 ,J03501, J03502, J03503, J03504, J03505
(where J03500 is the 'Rename Transfer File' and J03501 is the 'Submission File')

DATA - RETRIEVAL INSTRUCTIONS

Standard 1/2" Computer Tape (SAVEM format)

Mount the mag tape on Logical Unit <mtlu> and then type (under FMGR):

:TR,<mtlu>,<mtlu>,<cart>

where <cart> is the FMGR cartridge to be used for temporary scratch disk files. Further instructions will be given automatically.

The data-retrieval system will retrieve file #3 (%GOTEM) from the mag tape and store it on the scratch disk. Then GOTEM will be loaded (using LINK or LOADR) and scheduled for execution. [If the load attempt fails, file #4 (&GOTEM) will be retrieved and an attempt made to compile (first FTN7X, then FTN4X, then FTN4) and load (first LINK, then LOADR).] Upon execution, GOTEM is automatically instructed to position to Save #2 (see CSL/1000 Tape Format). The user will then be able to retrieve any or all data files from the release.

Sample GOTEM Session

Program GOTEM is self-instructing and simple to use. The following is an example session with GOTEM to restore a single contribution. Multiple contributions may be restored simultaneously simply by specifying them in the restore list. User entries are underscored, comments in (parenthesis):

```
:RU,GOTEM
Enter mag tape lu: 9 \
Enter Save# to be accessed: 2 / >(done automatically from transfer file)
(GOTEM positions tape)
Tape positioned to start of Save# 2
Save date (Y:D:H:M): 1985:202:18: 0
Header: CSL/1000 REV 2533
```

Valid commands are:

- DL - directory list of current 'Save'
- RF - restore files to disc from current 'Save'
- SA,n - position tape to Save#n (currently in Save# 2)
- :: - terminate and rewind tape

Command? DL

Enter lu for directory listing: 1

'-' may be used as wildcard character in file name.

Enter namr of desired file: J019--

Save# 2

Save date (Y:D:H:M): 1985:202:18: 0

Header: CSL/1000 REV 2533

Name	Scode	Cart	Type	Size
J01900:	0:	-61:	4:	2
J01901:	0:	-61:	4:	18
J01902:	0:	-61:	4:	82

3 files found matching J019--

Command? RF (Restore files)

Enter destination FMGR cartridge for restored files: SC

Enter list of file names to be restored.
 '-' may be used as wildcard: for example, 'C023--' will
 restore all files which have 'C023' as the first 4 characters.
 Enter '::' to terminate list of files to be restored.
 Enter '++' at any time to list files currently in 'restore' list.
 Enter '/A' to abort and return to command mode.

Enter (wildcard) namr to be restored: J019--
 ... (Enter others as desired) ...
 ('-----' restores all)
 Enter (wildcard) namr to be restored: ++ (list current restore list)
 Enter lu for listing: 1

Files currently in the 'restore' list --

Name	Scode	Cart	Type	Size
J01900:	0:	-61:	4:	2
J01901:	0:	-61:	4:	18
J01902:	0:	-61:	4:	82

3 files to be restored

Enter (wildcard) namr to be restored: :: (end restore list)
 3 files to be restored

Override security codes of restored files? (Y/N) Y (if you wish)

Enter security code: AW

Ready to proceed with file restore? (Y/N) Y

Name	Scode	Cart	Type	Size
Searching				
Creating J01900:	AW:	SC:	4:	1
Writing J01900:	AW:	SC:	4:	1
Searching				
Creating J01901:	AW:	SC:	4:	9
Writing J01901:	AW:	SC:	4:	9
Searching				
Creating J01902:	AW:	SC:	4:	41
Writing J01902:	AW:	SC:	4:	41

Normal end

3 files restored

Command? :: (Terminate GOTEM and rewind tape)

LINUS Tape Cartridge

LINUS cartridge tapes are supplied in standard TF format. The HP instruction manual for TF should be followed. CSL/1000 data files may be restored either to a FMGR cartridge or CI directory. A simple example which restores two contributions may be instructive (user entries underscored):

```

CI.xx>TF (run TF)
TF: CO 24{J019-- ,J057--} ::RT (copy to cart/dir RT)
TF: EX (terminate)

```

Contributions J019 and J057 will be copied from the LINUS tape (assumed lu 24) to cartridge/directory 'RT'. The files now must be renamed to their original names (see next section).

FILE - RENAMING INSTRUCTIONS

Once the desired data files have been restored, they must be renamed to their original names before use. This is the purpose of the 'Rename Transfer File', which is always named 'ANNN00', where 'ANNN' is the contribution number (see File-Naming Conventions). The 'Rename Transfer File' will be in one of two formats, depending on whether the original contribution files were in FMGR or CI format. The original format of the data files for a particular contribution can be determined by examining the file names as listed in the submission file ('ANNN01' or see listing of abstracts).

Original Files are FMGR Format

In this case the files must simply be renamed. The files are assumed to be restored to a FMGR cartridge. Renaming is done by issuing the command (under FMGR):

```
:TR,ANNN00,<cart>
```

where <cart> is the FMGR cartridge on which the files reside. The files will be renamed to their original names. File 'ANNN00' is a FMGR transfer file and will work properly only under FMGR.

Original Files are CI Format

In this case the Rename Transfer File will copy the restored files to the specified CI directory and rename them. The files may have been restored either to a FMGR cart (using GOTE M or TF) or to a CI directory (TF only). Under CI, issue the command:

```
TR,ANNN00,<cart>,<directory>
```

where <cart> is the FMGR cartridge or CI directory where the files reside and <directory> is the CI destination directory (not sub-directory). The original files will not be purged. In this case, file 'ANNN00' is a CI command file and will work properly only under CI. The files will be copied to the CI directory and renamed to their original names.

DEFINITION OF A
LIBRARY CONTRIBUTION

A contribution to the CSL/1000 library consists entirely of documentation and program files supplied by the contributor on computer-readable media of 2 or more files. These files are of three different types:

- Submission File - One file containing standardized documentation for the contribution. This file is created through use of the FMGR file 'SUBMT (See section HOW TO SUBMIT A CONTRIBUTION TO THE LIBRARY').
- Program File(s) - One or more files composed of program sources, transfer files, data files, etc.; i.e. the programs and everything needed to use them.
- Extended Documentation- An optional file consisting of documentation considered too lengthy to be placed into the submission file.

HOW TO SUBMIT A CONTRIBUTION

The process of submitting a program to the CSL/1000 is:

- Step 1) Use the editor to fill out the blank file titled 'SUBMT
- The file 'SUBMT resides on each CSL/1000 release tape and is shown below. This file enables the user to easily prepare information about his contribution. This information should be stored in a file whose name begins with ' (under FMGR) or has an extent of .SBMT (under CI).

INTEREX CONTRIBUTED SOFTWARE LIBRARY CSL/1000

PROGRAM SUBMISSION FORM

```
Contribution Name.....: [16 characters maximum]
Title.....: [64 characters maximum]
File Names.....:00. Rename Transfer File [see Note 1.]
                  :01. ' or .SBMT Submission File [see Note 2.]
                  :02. first file name [see Note 3.]
                  :03. second file name
                  :    [see Note 4.]
Operating System.....:
Language(s).....:
External Support Req'd...:
If Re-submission, Reason.:
Keywords.....:01. [Choose from suggested keyword list]
                  :02.
                  :03.
                  :04.
                  :05.
External Support Req'd...:
If Re-Submission, Reason.:
Contributor's Name.....:
Company.....:
Street.....:
City.....:
State.....:
Country.....:
Zip Code.....:
Phone Number...:
Telex Number...:
Program Abstract.....:
Additional Documentation....:
```

- Note 1. This line should appear as is. The CSL librarian will create the rename file.
- Note 2. SUBMIT files (and only SUBMIT files) should begin with an ' (apostrophe) if in FMGR format or use a .SBMT extent if in hierarchical (CI) file format.
- Note 3. It is very helpful if file names use the standard HP file naming conventions (& or .FTN for source, % or .REL for relocateables, #, .CMD, or .LOD for command files, etc.). Directory names or CRNs should not be used; all CI files should be on the same directory. FMGR files should not contain the characters / or . (slash or period).

Note 4. Any line without a : (colon) will be treated as a comment line.

- Example of proper 'File Names' section

File:00. Rename transfer file (Prepared by
CSL/1000 Library committee)
:01. 'XYZ - Submission file (Prepared by
user, using blank 'SUBMT file)
:02. &XYZ - XYZ source code [or XYZ.FTN]
Comments if desired
:03. %XYZ - XYZ relocatable [or XYZ.REL]
:04. ^XYZ - XYZ LOADR command file [XYZ.LOD]
:05. "XYZ - Manual for XYZ [or XYZ.DOC]

Step 2) Make a listing of the 'SUBMT file just made and sign the disclaimer.

- A copy of this listing (including the disclaimer) must be submitted with the contribution. If no line printer is available to the contributor, copy the following, sign it, and submit with the contribution.

DISCLAIMER:

To the best of my knowledge, this contributed program is free of any proprietary information belonging to any person or organization and is not licensed by any person or organization. I am making this program information available to Interex, The International Association of Hewlett-Packard Computer Users. I hereby agree that Interex may reproduce, publish, and use this program, and authorize others to do so, without obligations or liability of any kind.

(SIGNATURE)

(DATE)

Step 3) Place submission file and all contribution files onto tape.

- The tape should contain the submission file (copy of the 'SUBMT), all sources, transfer files., etc, along with any additional documentation required. Contributions will be accepted in SAVEM, READR/SAVER, TF or FC format. It is preferable to have the files on mag tape or mini-cartridge, but they may be placed on LINUS (CS-80) tape if necessary. The tape, plus the listing of the submission file with the signed disclaimer, constitute the whole contribution. No additional paper documentation is to be submitted, e.g. a user manual.

Step 4) Mail the contribution to Interex

- The tape containing the submission file and all source files, transfer files, etc., plus the signed disclaimer, should be mailed to Interex:

CSL/1000 Chairman
Interex
2570 El Camino Real West, 4th Floor
Mountain View, California 94022
U.S.A.
(415) 941-9960

WHERE TO GET THE 'SUBMT FILE

The 'SUBMT file is included on every CSL/1000 mag tape. See the section 'CSL/1000 Tape Format' for details on the format of the tape.

ANY QUESTIONS?

If you have any further problems or questions concerning contributions in the library, the library itself, the catalog, submitting contributions, ordering the library, or anything about the INTEREX, please contact:

Interex
2570 El Camino Real West, 4th Floor
Mountain View, California 94022
U.S.A.
(415) 941-9960

List of Current Keywords

9825	DEC	INTEGER	PROCEDURES
ABSOLUTE	DECIMAL	INTEL	PROM
ACCOUNTING	DECODE	INTERACTIVE	PURGE
AI	DEMO	INTERFACE	RANDOM
ALGEBRA	DIAGNOSTIC	INTERPRETER	RELOCATABLE
ALGOL	DIGITIZER	INVERSE	REPORTS
ANALOG/DIGITAL	DIRECTORY	LABEL	RESOURCE_NUMBER
ANALYZER	DISC	LANGUAGE	RJE
APPLE	DISPLAY	LIBRARY	SAVE/RESTORE
ARCHIVE	DMA	LINEAR_EQNS	SCANNER
ARRAY	DOCUMENTATION	LINK	SCHEDULING
ASCII	DRIVER	LIST	SCRATCH
ASSEMBLER	DS	LOADER	SEARCH
ASYNCHRONOUS	DUMP	MACRO	SECURITY
ATS	EBCDIC	MAGNETIC_TAPE	SEGMENTATION
BACI	EDITOR	MAIL	SESSION
BACKUP	EMA/VMA	MAINTENANCE	SHELL
BAR_CODE	EMULATOR	MANAGEMENT	SIMULATOR
BASIC	ENGINEERING	MAP	SNAP
BATCH	ENTRY_POINTS	MATHEMATICS	SOFTKEYS
BCD	EQT	MATRIX	SORT
BENCHMARK	ERROR	MEASUREMENT	SPEECH
BINARY	EXPERT_SYSTEMS	MEMORY	SPL
BIT	EXTENTS	MERGE	SPOOLING
BOOT-UP	FAIRCHILD	MESSAGE	STACK
BYTE	FIGURES	MICROCODE	STATISTICS
C	FILES	MISCELLANEOUS	STATUS
CALCOMP	FILTER	MODEM	STORAGE
CALCULATOR	FINANCE	MODIFY	STRINGS
CALENDAR	FLOATING_POINT	MONITOR	SYSTEM
CAMAC	FLOWCHART	MOTOROLA	SYSTEM_TABLES
CARTRIDGE	FMGR	MOVE	TEKTRONIX
CASSETTE	FONT	MULTI-PROGRAM	TERMINAL
CDC	FORMATTING	MULTI-TERMINAL	TEST
CENTRONICS	FORMS	PACK	TEXT
CHARACTER	FORTRAN	PAPER_TAPE	TIME
CI	FOURIER	PARSE	TOOLS
CLASS_NUMBER	GAMES	PARTITION	TRANSFORM
CODE	GENERATION	PASCAL	TRANSLATOR
COMPARE	GEOMETRY	PAYROLL	TRANSPORTABLE
COMPILER	GLOBALS	PC	TRIGONOMETRY
COMPLEX	GRAPHICS	PERFORMANCE	UNIX
CONVERSION	HELP	PHYSICS	UPDATE
COPY	HPIB	PLOTTING	UTILITY
CROSS-REFERENCE	I/O	PLUS/1000	VAX
DATA_BASE	IBM	POLYNOMIAL	WCS
DATA_COMM	ID_SEGMENTS	PRE-PROCESSOR	WINDOWS
DATA_MGMT	IMAGE	PRECISION	WORD
DATE	INITIALIZE	PRINTER	WORD_PROCESSING
DEBUG	INPUT	PRIVILEGED	





SECTION II

CSL/1000 Release 2533

PROGRAM INDEX

Listings with an asterisk ('*') following the program description indicate that the files for that contribution were contributed in CI format.

INDEX BY CONTRIBUTION NAME

PROGRAM NAME PROGRAM DESCRIPTION REV. CONT. KEYWORDS

PROGRAM NAME	PROGRAM DESCRIPTION	REV.	CONT. NO.	KEYWORDS
ADDIX, LIST	HIGH-SPEED HELP-FILE FACILITY	* 2533	J006	HELP, LIST
AGEN	ELECTRONIC AGENDA	2533	J104	CALENDAR
ANN01	DATA ENTRY / SAVING / PLOTTING PACKAGE	2533	J055	PLOTTING, GRAPHICS, STORAGE, DATA MGMT
APPLE	DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE	2533	J023	APPLE, MODEM, DATA COMM, PC
AR	SOFTWARE TOOLS 'ARCHIVER'	* 2533	J011	ARCHIVE, MAINTENANCE
ARF	TERMINAL EMULATION WITH APPLE IIC	2533	J115	DATA COMM, TERMINAL, EMULATOR, APPLE, PC
ASUBS	ASSEMBLY LANGUAGE SUBROUTINES	2533	J024	LIBRARY
BID	B1D WHESTONE BENCHMARK FOR HP 1000	2533	J019	BENCHMARK, FORTRAN
BACKS	INDEXES FOR BINDER BACKS	2533	J025	TEXT, LABEL, GRAPHICS
BAKUP	DAILY FC SYSTEM BACKUP	2533	J026	BACKUP, ARCHIVE
BATCH	BATCH INPUT FROM DISC OR LU	2533	J027	BATCH, INPUT
BLI	BINARY FILE-LIST PROGRAM	* 2533	J008	LIST, BINARY
BNOAL	BRUNO COMPATIBLE PLOT PROGRAM	2533	J098	GRAPHICS
C	COMPILE UTILITY	* 2533	J138	COMPILER, PRE-PROCESSOR
CIPRE	CI PROGRAM PREPROCESSORS	2533	J030	PRE-PROCESSOR, CI, COMPILER
CLEAN	FMGR CARTRIDGE CLEAN UP PROGRAM	2533	J029	EXTENTS, FILES
CLINK	CONDITIONAL LINK	* 2533	J119	LINK, CI, UTILITY
CMDSTACK	COMMAND STACK SUBROUTINES	* 2533	J005	STACK, STRINGS, PARSE
CWMA	RTE-A SYSTEM ANALYZER	2533	J033	SYSTEM, SYSTEM TABLES, ANALYZER
CMPAR	COMPARE PARAMETERS IN FORTRAN SUBROUTINES	2533	J021	COMPARE, FORTRAN, DEBUG, CROSS-REFERENCE
CONV	ASCII TO NUMERIC CONVERSION	2533	J032	ASCII, CONVERSION
CPLK	DIRECT, DMA, PRIVILEGED MODE I/O EXAMPLES	* 2533	J035	I/O, DMA, PRIVILEGED
CPUSE	AUTOMATIC COMPILE AND LINK PROCEDURE	2533	J036	LINK, PROCEDURES
CS80	24 HOUR CPU USAGE WITH PRINTOUT	2533	J075	ANALYZER, ACCOUNTING, REPORTS, PERFORMANCE
CDEF	TRACK MAP DVT TABLE	2533	J018	SYSTEM TABLES, DISC, GENERATION
D2225	DEFINE CS/80 DISC TRACK MAP	2533	J100	SYSTEM TABLES, DISC
DATA	DGL DEVICE HANDLER FOR THINKJET	2533	J037	GRAPHICS, DRIVER
DBEXP	EQUIPMENT TABLE PRINT OUT	2533	J017	SYSTEM TABLES, EQT
DBMOD	EXPLAIN DATA-BASE FORMAT	2533	J038	HELP, IMAGE, DATA BASE
DBMOX	DATA BASE MODIFIER	2533	J039	IMAGE, DATA BASE, MODIFY
DCIEC	DATA BASE MODIFY PROGRAM	2533	J080	DATA BASE, IMAGE, MODIFY
DCODE	INPUT ROUTINES W/ERROR CHECKING FOR THE HP1000	2533	J079	ERROR, INPUT, INTERACTIVE
DE	DECODE RELOCATABLE RECORDS	2533	J085	INVERSE, RELOCATABLE
DI	DIRECTORY END LIST	* 2533	J085	DISC, DIRECTORY
DIMPV	LIST DIRECTORY TREE AND CHANGE WORKING DIRECTORY	* 2533	J131	DIRECTORY, LIST
DIRSIZE	ARRAY INITIALIZING PROGRAM	2533	J106	ARRAY, INITIALIZE, PRE-PROCESSOR
DSTAT	DIRECTORY CAPACITY INFORMATION	* 2533	J116	CI, DIRECTORY
DUF1	DISC STATUS REPORT	2533	J084	DISC, DATA MGMT
DVP12	DUMP FILE PROGRAM	* 2533	J120	SOFTKEYS, DUMP
DVT	LINEPRINTER DRIVER AND SUPPORT SOFTWARE	2533	J040	DRIVER, PRINTER
E	GET DVT & IFT INFO	* 2533	J136	SYSTEM TABLES, EQT
ENMAP	EDIT UTILITY WITH CI FILE MASK CAPABILITY	* 2533	J118	EDITOR, CI
EPL0T	ENTRY POINT MAPPING UTILITY	2533	J082	RELOCATABLE, ENTRY POINTS
EQ15	INTERACTIVE PLOTTING PROGRAM	2533	J102	PLOTTING, GRAPHICS, INTERACTIVE
ERASE	EQUIPMENT TABLE ACCESS	2533	J041	SYSTEM TABLES, EQT
EXMAP	ERASE A FMGR CARTRIDGE	2533	J042	PURGE, FILES, INITIALIZE
EXPER	EXTERNAL REFERENCE MAPPING UTILITY	2533	J083	RELOCATABLE
FCOM	SMALL EXPERT SYSTEM	2533	J093	EXPERT SYSTEMS, AI
FERR	ISSUE FMGR COMMANDS FROM A PROGRAM	2533	J110	FMGR, PROCEDURES
FIXFMGR	FORTRAN ERROR EXPLANATION	* 2533	J122	ERROR, HELP, DEBUG, MESSAGE
FMP1B	FIX ODD BYTE COUNT FMGR RECORDS	2533	J043	TRANSPORTABLE, FMGR, CI
	FMGR CALLS FOR CI FILES	2533	J044	CONVERSION, LIBRARY, EMULATOR, FILES

INDEX BY CONTRIBUTION NAME

PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
FONT & JULIAN	SWEDISH-FINNISH AGP FONTS; TIME-RELATED ROUTINES	* 2533	J117	FONT, TIME
FORM	MENU EDITING PROGRAM	* 2533	J129	INTERACTIVE, HELP, DISPLAY
GFONT	INTERACTIVE FONT GENERATOR	2533	J045	FONT, TEXT, INTERACTIVE
GRPHX	INTERACTIVE 3-DIMENSIONAL GRAPHICS PART 1 OF 2	2533	J089	GRAPHICS, INTERACTIVE
GRPIX	INTERACTIVE 3-DIMENSIONAL GRAPHICS PART 2 OF 2	2533	J090	GRAPHICS, INTERACTIVE
HOW	USER HELP PROGRAM	2533	J046	HELP, MESSAGE
HP/C LIBRARIES	HP/C COMPILER RUNTIME AND I/O LIBRARIES	2533	J031	LIBRARY, C, COMPILER
IBITS	BIT VECTOR MANIPULATION SUBROUTINE	2533	J078	BIT, ARRAY
IBMPC	TRANSFER DATA FROM IBM PC TO HP 1000	2533	J094	PC, DUMP, DATA COMM
IDCHK	ID SEGMENT CHECKER	2533	J086	SYSTEM, ID SEGMENTS
IPRIS	CALCULATE MOMENT OF INERTIA OF PRISMATIC BEAM	2533	J094	ENGINEERING, GEOMETRY
IVLIB	GENERAL-PURPOSE LIBRARY	2533	J111	LIBRARY
JBINF	DISPLAY GASP INITIALIZATION INFORMATION	2533	J020	HELP, SPOOLING
JCALC	ARITHMETIC CALCULATOR FOR DATA IN AN ANNOTATED FILE	2533	J047	CALCULATOR
KEEP	PROGRAM RP'ER AND ID-SEGMENT TWIDDLER	2533	J048	ID SEGMENTS
KEYS	FUNCTION KEY DEFINITIONS	* 2533	J133	SOFTKEYS
LISP	LISP INTERPRETER FROM STUG TOY'S TAPE	* 2533	J013	INTERPRETER, LANGUAGE
LIST	LIST CI FILES WITH MASKED FILE NAMES	* 2533	J124	INTERPRETER, LANGUAGE, AI
LIST	PRINT TEXT-FILES	* 2533	J130	LIST, CI
M2240	HP2240 EXERCISER	2533	J091	LIST
M6942	HP6942 EXERCISER	2533	J091	HP1B, MEASUREMENT
MAIL	ELECTRONIC MAIL SYSTEM	2533	J096	MULTI-PROGRAM
MED	EDIT WITH FILE MASK CAPABILITY	2533	J049	MAIL, MESSAGE, DATA COMM
META	IMAGE-II DECLARATION GENERATOR FOR PASCAL	* 2533	J135	EDITOR
MSAM	MONITOR RUNNING OUT OF S.A.M	* 2533	J132	DATA BASE, IMAGE, PASCAL
NEWSKI	TERMINAL SKI GAME	2533	J050	MONITOR, SYSTEM TABLES
NGLIB	FILE ERROR REPORTING ROUTINES	2533	J051	GAMES
NKEYS	USER KEYS PROGRAMMING FOR 262X CRTS	2533	J052	ERROR, MESSAGE, HELP
NL	FILE LISTING WITH LINENUMBERS IN CI-SYSTEM	2533	J053	SOFTKEYS
NYQUIST PLOT	BASIC PLOTTING ROUTINES	* 2533	J134	LIST
ORCAM	DIS-ASSEMBLER FOR FILES IN NEW FORMAT	2533	J112	ENGINEERING, MATHEMATICS, PLOTTING
PASCAM	AUTOMATIC COMPILING/EDITING/LINKING	2533	J003	INVERSE
PATRN	SUB-LINEAR & LINEAR PATTERN MATCHING FUNCTIONS	2533	J107	PRE-PROCESSOR, PASCAL
PLIB	GENERAL PURPOSE LIBRARY MANAGEMENT	* 2533	J016	COMPARE, WORD PROCESSING, EDITOR, TEXT
POST	ELECTRONIC MAILBOX	2533	J123	DOCUMENTATION, DATA MGMT
PRTN	FORTRN SOURCE PREPROCESSOR	2533	J092	MAIL, MESSAGE, DATA COMM
PRIME	PRINT PRIME NUMBERS BETWEEN LIMITS ENTERED	2533	J108	FORTRN, PRE-PROCESSOR
PSWD	CHANGE PASSWORDS IN @+CCT!	* 2533	J010	DATA BASE, MATHEMATICS
QBASE	IMAGE REPORT PROGRAM	2533	J056	SESSION, SECURITY
QSPOL	EASY SPOOLER INTERFACE	2533	J057	REPORTS, IMAGE
QXREF	RELOCATABLE-FILE CROSS-REFERENCER	2533	J034	SPOOLING
RC	1984 RC, RAT17, RATP1, RATP2 & 1980 RAT4	2533	J087	RELOCATABLE, CROSS-REFERENCE
RUESY	DATA DISTRIBUTION TO/FROM IBM IN A DS ENVIRONMENT	* 2533	J012	PRE-PROCESSOR, TOOLS, COMPILER
ROFF1	TEXT FORMATTER STUG 1980 ROFF(FORMAT)	2533	J097	RJE, IBM, DS, DATA COMM
ROGUE	ROGUE GAME FILES FROM VAX	* 2533	J014	WORD PROCESSING, TEXT, FORMATTING
ROI	CALCULATE INTERNAL RATE OF RETURN AND PROFITABILITY	2533	J028	GAMES, VAX
RPCHK	CHECK FOR NON-RP'ABLE TYPE 6 FILES	2533	J001	ACCOUNTING, FINANCE
SC	MAC/13C SUBCHANNEL MODIFIER	2533	J058	FILES, ID SEGMENTS, TRANSPORTABLE, SYSTEM
SCAN	HP 264X HARDCOPY PRINTOUT	2533	J088	DISC, SYSTEM TABLES, MODIFY
SCAN	MEMORY OCCUPATION	2533	J059	TERMINAL, PRINTER
SCAN		2533	J103	SYSTEM, MEMORY, ANALYZER

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PROGRAM DESCRIPTION

REV. CONT. NO.

PROGRAM NAME

KEYWORDS

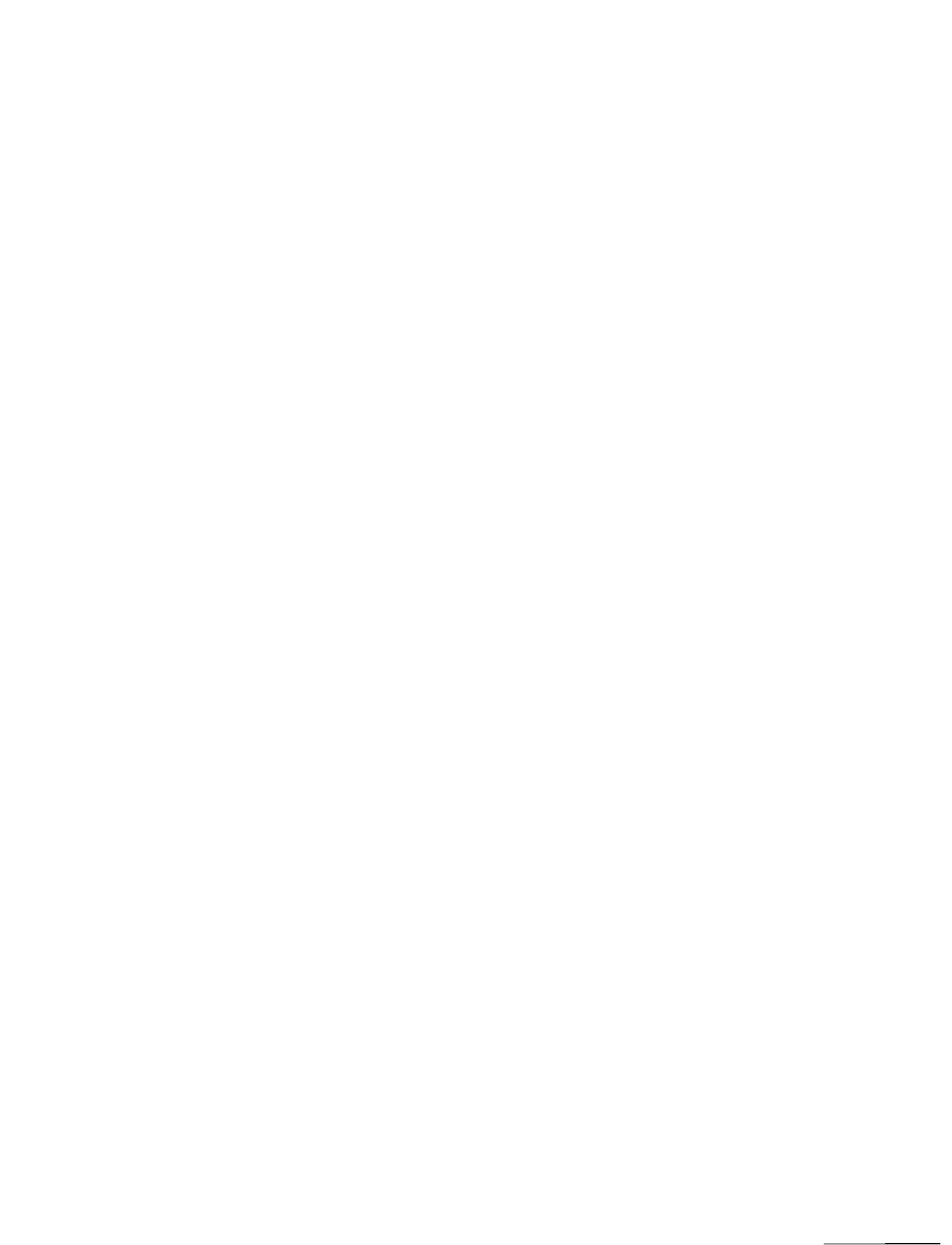
SEARCH	FILE SEARCH PROGRAM WITH MASKED FILE NAMES	* 2533	J125	SEARCH, TEXT
SEE	FILE WINDOWS FOR HP-232X TERMINALS	2533	J060	WINDOWS, GRAPHICS, TERMINAL
SESSION	RTE-A SESSION UTILITIES	* 2533	J137	MAIL, MESSAGE, SESSION
SMERGE	SORT - MERGE FROM 1980 STUG BASIC TAPE	* 2533	J015	SORT, MERGE
SNOOP	EXAMINE SWAPPED PROGRAM	2533	J061	DEBUG, SYSTEM, UTILITY
SPELLR	SPELLING CHECKER	2533	J004	WORD PROCESSING
SPINT	SPOOL INTERFACE LIBRARY	2533	J062	SPOOLING
SPIMM	LETTER-QUALITY PRINTER SETUP UTILITY	2533	J063	PRINTER, UTILITY, WORD PROCESSING
SPIMM	USER ACCESS TO SYSTEM SPOOL FILES	2533	J064	SYSTEM, SPOOLING
SPOOL	CI SPOOLING FOR RTE-6/VM	2533	J065	CONVERSION, SPOOLING
STIPP	SOFTWARE TOOLS IN PASCAL PRIMITIVES	* 2533	J009	UTILITY, TOOLS, PASCAL
SUPERUSER	MAKE USER SUPERUSER OR NON-SUPERUSER FOR SESSION	2533	J066	SESSION, SECURITY
TASC1	RTE TASK MONITOR PROGRAM	2533	J002	STATUS, DEBUG, PERFORMANCE
TEXED	TEXT EDITOR	2533	J114	TEXT, EDITOR, WORD PROCESSING
TIME	ANOTHER OP-SYS TIME-SETTING PROGRAM	* 2533	J007	TIME
TIME	SET SYSTEM TIME AND TEACH ABOUT SOFTWARE	2533	J067	TIME, SOFTWARE
TOOLS	TOOLKIT FOR STANDARD DATA FILE (SDF) HANDLING	2533	J099	TOOLS, FILES
TOULB	HP150 TOUCH SCREEN SUBROUTINE LIBRARY	2533	J068	PC, LIBRARY
TPLOT	TRANSPARENCY PLOTTER (GRAPHICS 1000/II VERSION OF BRUNO)	2533	J069	GRAPHICS, PLOTTING
TRBL	HELP FILE FOR SPECIFIC TOPICS	2533	J076	DOCUMENTATION, HELP
TREE	OVERVIEW OF DIRECTORIES	2533	J105	DIRECTORY
TRINT	INTERPRET IMAGE-2 LOG FILE TRANSACTIONS	2533	J070	IMAGE, DATA BASE
TRKCK	CHECK DISC MAP FOR MAC AND ICD DISCS	2533	J022	SYSTEM TABLES, DISC
TSUBS	TIME SUBROUTINES	2533	J071	TIME
TYPE6	DISPLAY TYPE 6 FILE INFORMATION	2533	J072	FILES, SYSTEM
UDOCU	FORMATTED DOCUMENTATION PROGRAM	2533	J109	DOCUMENTATION, FORMATTING
UPDIR	MOVE UP ONE OR MORE LEVELS IN CI DIRECTORY TREE	* 2533	J126	DIRECTORY, CI
USE OF VMA10.SUB	TREAT VAM/EMA AS DISK FILES	* 2533	J127	FILES, EMA/VMA
VERIFY	FMGR CARTRIDGE VERIFICATION PROGRAM	2533	J073	DIRECTORY, REPORTS, DATA MGMT, STATUS
VIEW	VIEWScreen HANDLING PROGRAM	2533	J074	DOCUMENTATION, HELP, TERMINAL
VOICE	SPEECH SYNTHESIS USING HP6942 MULTIPROGRAMMER	2533	J095	MULTI-PROGRAM, SPEECH
VITALK	PROGRAMMATIC INTERFACE FOR HP27201A VOICE SPEECH SYNTHESIZER	2533	J113	SPEECH, HELP
WOPUP	GO BACK ONE STEP IN THE DIRECTORY	2533	J101	DIRECTORY, CI
WHO	WHO'S ON LINE ON WHAT NUMBER	2533	J077	MODEM, ACCOUNTING
WOLF	WORD ORIENTED LINE FORMATTER	* 2533	J128	TEXT, WORD PROCESSING

SECTION III

CSL/1000 Release 2533

KEYWORD CROSS-REFERENCE INDEX

Listings with an asterisk ('*') following the program description indicate that the files for that contribution were contributed in CI format.



INDEX BY KEYWORD

PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
ACCOUNTING				
CPUSE	24 HOUR CPU USAGE WITH PRINTOUT	2533	J036	ANALYZER, ACCOUNTING, REPORTS, PERFORMANCE
ROI	CALCULATE INTERNAL RATE OF RETURN AND PROFITABILITY	2533	J001	ACCOUNTING, FINANCE
WHO	WHO'S ON LINE ON WHAT NUMBER	2533	J077	MODEM, ACCOUNTING
AI				
EXPER	SMALL EXPERT SYSTEM	2533	J093	EXPERT_SYSTEMS, AI
LISP	LISP INTERPRETER	2533	J081	INTERPRETER, LANGUAGE, AI
ANALYZER				
CMMA	RTE-A SYSTEM ANALYZER	2533	J033	SYSTEM, SYSTEM_TABLES, ANALYZER
CPUSE	24 HOUR CPU USAGE WITH PRINTOUT	2533	J036	ANALYZER, ACCOUNTING, REPORTS, PERFORMANCE
SCAN	MEMORY OCCUPATION	2533	J103	SYSTEM, MEMORY, ANALYZER
APPLE				
APPLE	DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE	2533	J023	APPLE, MODEM, DATA_COMM, PC
ARF	TERMINAL EMULATION WITH APPLE IIC	2533	J115	DATA_COMM, TERMINAL, EMULATOR, APPLE, PC
ARCHIVE				
AR	SOFTWARE TOOLS 'ARCHIVER'	*	2533 J011	ARCHIVE, MAINTENANCE
BAKUP	DAILY FC SYSTEM BACKUP	2533	J026	BACKUP, ARCHIVE
ARRAY				
DIMPN	ARRAY INITIALIZING PROGRAM	2533	J106	ARRAY, INITIALIZE, PRE-PROCESSOR
IBITS	BIT VECTOR MANIPULATION SUBROUTINE	2533	J078	BIT, ARRAY
ASCII				
CONV	ASCII TO NUMERIC CONVERSION	2533	J032	ASCII, CONVERSION
BACKUP				
BAKUP	DAILY FC SYSTEM BACKUP	2533	J026	BACKUP, ARCHIVE
BATCH				
BATCH	BATCH INPUT FROM DISC OR LU	2533	J027	BATCH, INPUT
BENCHMARK				
BID	BID WHETSTONE BENCHMARK FOR HP 1000	2533	J019	BENCHMARK, FORTRAN
BINARY				
BLI	BINARY FILE-LIST PROGRAM	*	2533 J008	LIST, BINARY

INDEX BY KEYWORD

PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
BIT				
IBITS	BIT VECTOR MANIPULATION SUBROUTINE	2533	J078	BIT, ARRAY
C				
HP/C LIBRARIES	HP/C COMPILER RUNTIME AND I/O LIBRARIES	2533	J031	LIBRARY, C, COMPILER
CALCULATOR				
JCALC	ARITHMETIC CALCULATOR FOR DATA IN AN ANNOTATED FILE	2533	J047	CALCULATOR
CALENDAR				
AGEN	ELECTRONIC AGENDA	2533	J104	CALENDAR
CI				
CIPRE	CI PROGRAM PREPROCESSORS	2533	J030	PRE-PROCESSOR, CI, COMPILER
CLINK	CONDITIONAL LINK	* 2533	J119	LINK, CI, UTILITY
DIRSIZE	DIRECTORY CAPACITY INFORMATION	* 2533	J116	CI, DIRECTORY
E	EDIT UTILITY WITH CI FILE MASK CAPABILITY	* 2533	J118	EDITOR, CI
FIXFMGR	FIX ODD BYTE COUNT FMGR RECORDS	2533	J043	TRANSPORTABLE, FMGR, CI
LIST	LIST CI FILES WITH MASKED FILE NAMES	* 2533	J124	LIST, CI
UPDIR	MOVE UP ONE OR MORE LEVELS IN CI DIRECTORY TREE	* 2533	J126	DIRECTORY, CI
WDUP	GO BACK ONE STEP IN THE DIRECTORY	2533	J101	DIRECTORY, CI
COMPARE				
CMPAR	COMPARE PARAMETERS IN FORTRAN SUBROUTINES	2533	J021	COMPARE, FORTRAN, DEBUG, CROSS-REFERENCE
PATRN	SUB-LINEAR & LINEAR PATTERN MATCHING FUNCTIONS	* 2533	J016	COMPARE, WORD_PROCESSING, EDITOR, TEXT
COMPILER				
C	COMPILE UTILITY	* 2533	J138	COMPILER, PRE-PROCESSOR
CIPRE	CI PROGRAM PREPROCESSORS	2533	J030	PRE-PROCESSOR, CI, COMPILER
HP/C LIBRARIES	HP/C COMPILER RUNTIME AND I/O LIBRARIES	2533	J031	LIBRARY, C, COMPILER
RC	1984 RC, RAT77, RATP1, RATP2 & 1980 RAT4	* 2533	J012	PRE-PROCESSOR, TOOLS, COMPILER
CONVERSION				
CONV	ASCII TO NUMERIC CONVERSION	2533	J032	ASCII, CONVERSION
FMPLB	FMGR CALLS FOR CI FILES	2533	J044	CONVERSION, LIBRARY, EMULATOR, FILES
SPOOL	CI SPOOLING FOR RTE-6/VM	2533	J065	CONVERSION, SPOOLING
CROSS-REFERENCE				
CMPAR	COMPARE PARAMETERS IN FORTRAN SUBROUTINES	2533	J021	COMPARE, FORTRAN, DEBUG, CROSS-REFERENCE
QXREF	RELOCATABLE-FILE CROSS-REFERENCER	2533	J087	RELOCATABLE, CROSS-REFERENCE

INDEX BY KEYWORD

PROGRAM NAME PROGRAM DESCRIPTION REV. CONT. KEYWORDS

DATA BASE

DBEXP	EXPLAIN DATA-BASE FORMAT	2533	J017	HELP, IMAGE, DATA BASE	
DBMOD	DATA BASE MODIFIER	2533	J038	IMAGE, DATA_BASE, DATA_BASE	
DBMODX	DATA BASE MODIFY PROGRAM	2533	J039	DATA_BASE, IMAGE, MODIFY	
META	IMAGE-II DECLARATION GENERATOR FOR PASCAL	*	2533	J132	DATA_BASE, IMAGE, PASCAL
PRIME	PRINT PRIME NUMBERS BETWEEN LIMITS ENTERED	*	2533	J010	DATA_BASE, MATHEMATICS
TRINT	INTERPRET IMAGE-2 LOG FILE TRANSACTIONS	2533	J070	IMAGE, DATA_BASE	

DATA COMM

APPLE	DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE	2533	J023	APPLE, MODEM, DATA_COMM, PC
ARF	TERMINAL EMULATION WITH APPLE IIC	2533	J115	DATA_COMM, TERMINAL, EMULATOR, APPLE, PC
IBMPC	TRANSFER DATA FROM IBM PC TO HP 1000	2533	J054	PC, DUMP, DATA_COMM
MAIL	ELECTRONIC MAIL SYSTEM	2533	J049	MAIL, MESSAGE, DATA_COMM
POST	ELECTRONIC MAILBOX	2533	J092	MAIL, MESSAGE, DATA_COMM
RUESY	DATA DISTRIBUTION TO/FROM IBM IN A DS ENVIRONMENT	2533	J097	RJE, IBM, DS, DATA_COMM

DATA_MGMT

ANN001	DATA ENTRY / SAVING / PLOTTING PACKAGE	2533	J055	PLOTTING, GRAPHICS, STORAGE, DATA_MGMT
DSTAT	DISC STATUS REPORT	2533	J084	DISC, DATA_MGMT
PLIB	GENERAL PURPOSE LIBRARY MANAGEMENT	2533	J123	DOCUMENTATION, DATA_MGMT
VERIFY	FMGR CARTRIDGE VERIFICATION PROGRAM	2533	J073	DIRECTORY, REPORTS, DATA_MGMT, STATUS

DEBUG

CHPAR	COMPARE PARAMETERS IN FORTRAN SUBROUTINES	2533	J021	COMPARE, FORTRAN, DEBUG, CROSS-REFERENCE	
FERR	FORTRAN ERROR EXPLANATION	*	2533	J122	ERROR, HELP, DEBUG, MESSAGE
SNOOP	EXAMINE SWAPPED PROGRAM	2533	J061	DEBUG, SYSTEM, UTILITY	
TASC1	RTE TASK MONITOR PROGRAM	2533	J002	STATUS, DEBUG, PERFORMANCE	

DIRECTORY

DE	DIRECTORY END LIST	2533	J085	DISC, DIRECTORY	
DI	LIST DIRECTORY TREE AND CHANGE WORKING DIRECTORY	*	2533	J131	DIRECTORY, LIST
DIRSIZE	DIRECTORY CAPACITY INFORMATION	*	2533	J116	CI, DIRECTORY
TREE	OVERVIEW OF DIRECTORIES	2533	J105	DIRECTORY	
UPDIR	MOVE UP ONE OR MORE LEVELS IN CI DIRECTORY TREE	*	2533	J126	DIRECTORY, CI
VERIFY	FMGR CARTRIDGE VERIFICATION PROGRAM	2533	J073	DIRECTORY, REPORTS, DATA_MGMT, STATUS	
WOP	GO BACK ONE STEP IN THE DIRECTORY	2533	J101	DIRECTORY, CI	

DISC

CS80	TRACK MAP DVT TABLE	2533	J075	SYSTEM_TABLES, DISC, GENERATION
CSDEF	DEFINE CS/80 DISC TRACK MAP	2533	J018	SYSTEM_TABLES, DISC
DE	DIRECTORY END LIST	2533	J085	DISC, DIRECTORY
DSTAT	DISC STATUS REPORT	2533	J084	DISC, DATA_MGMT
SC	MAC/ICD SUBCHANNEL MODIFIER	2533	J088	DISC, SYSTEM_TABLES, MODIFY
TRXCX	CHECK DISC MAP FOR MAC AND ICD DISCS	2533	J022	SYSTEM_TABLES, DISC

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PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
DISPLAY				
FORM	MENU EDITING PROGRAM	* 2533	J129	INTERACTIVE, HELP, DISPLAY
DMA				
CPIC	DIRECT, DMA, PRIVILEGED MODE I/O EXAMPLES	2533	J035	I/O, DMA, PRIVILEGED
DOCUMENTATION				
PLIB	GENERAL PURPOSE LIBRARY MANAGEMENT	2533	J123	DOCUMENTATION, DATA_MGMT
TRBL	HELP FILE FOR SPECIFIC TOPICS	2533	J076	DOCUMENTATION, HELP
WDCU	FORMATTED DOCUMENTATION PROGRAM	2533	J109	DOCUMENTATION, FORMATTING
VTEW	VIEWSCREEN HANDLING PROGRAM	2533	J074	DOCUMENTATION, HELP, TERMINAL
DRIVER				
D2225	DGL DEVICE HANDLER FOR THINKJET	2533	J100	GRAPHICS, DRIVER
DVPT2	LINEPRINTER DRIVER AND SUPPORT SOFTWARE	2533	J040	DRIVER, PRINTER
DS				
RJESY	DATA DISTRIBUTION TO/FROM IBM IN A DS ENVIRONMENT	2533	J097	RJE, IBM, DS, DATA_COMM
DUMP				
DUFI	DUMP FILE PROGRAM	* 2533	J120	SOFTKEYS, DUMP
IBMPC	TRANSFER DATA FROM IBM PC TO HP 1000	2533	J054	PC, DUMP, DATA_COMM
EDITOR				
E	EDIT UTILITY WITH CI FILE MASK CAPABILITY	* 2533	J118	EDITOR, CI
MED	EDIT WITH FILE MASK CAPABILITY	* 2533	J135	EDITOR
PATRN	SUB-LINEAR & LINEAR PATTERN MATCHING FUNCTIONS	* 2533	J016	COMPARE, WORD_PROCESSING, EDITOR, TEXT
TEXED	TEXT EDITOR	2533	J114	TEXT, EDITOR, WORD_PROCESSING
EMA/VMA				
USE_OF_VMA10.SUB	TREAT VAM/EMA AS DISK FILES	* 2533	J127	FILES, EMA/VMA
EMULATOR				
ARF	TERMINAL EMULATION WITH APPLE IIC	2533	J115	DATA_COMM, TERMINAL, EMULATOR, APPLE, PC
FMPLB	FMGR CALLS FOR CI FILES	2533	J044	CONVERSION, LIBRARY, EMULATOR, FILES
ENGINEERING				
IPRIS	CALCULATE MOMENT OF INERTIA OF PRISMATIC BEAM	2533	J094	ENGINEERING, GEOMETRY
NYQUIST PLOT	BASIC PLOTTING ROUTINES	2533	J112	ENGINEERING, MATHEMATICS, PLOTTING

INDEX BY KEYWORD

PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
ENTRY POINTS				
ENMAP	ENTRY POINT MAPPING UTILITY	2533	J082	RELOCATABLE, ENTRY POINTS
EQT				
DATA	EQUIPMENT TABLE PRINT OUT	2533	J037	SYSTEM TABLES, EQT
DVT	GET DVT & IFT INFO	* 2533	J136	SYSTEM TABLES, EQT
EQTS	EQUIPMENT TABLE ACCESS	2533	J041	SYSTEM TABLES, EQT
ERROR				
DCIEC	INPUT ROUTINES W/ERROR CHECKING FOR THE HP1000	2533	J080	ERROR, INPUT, INTERACTIVE
FERR	FORTRAN ERROR EXPLANATION	* 2533	J122	ERROR, HELP, DEBUG, MESSAGE
NGLTB	FILE ERROR REPORTING ROUTINES	2533	J052	ERROR, MESSAGE, HELP
EXPERT SYSTEMS				
EXPER	SMALL EXPERT SYSTEM	2533	J093	EXPERT SYSTEMS, AI
EXTENTS				
CLEAN	FMGR CARTRIDGE CLEAN UP PROGRAM	2533	J029	EXTENTS, FILES
FILES				
CLEAN	FMGR CARTRIDGE CLEAN UP PROGRAM	2533	J029	EXTENTS, FILES
ERASE	ERASE A FMGR CARTRIDGE	2533	J042	PURGE, FILES, INITIALIZE
FMPLB	FMGR CALLS FOR CI FILES	2533	J044	CONVERSION, LIBRARY, EMULATOR, FILES
RPCHK	CHECK FOR NON-RP'ABLE TYPE 6 FILES	2533	J058	FILES, ID_SEGMENTS, TRANSPORTABLE, SYSTEM
TOOLS	TOOLKIT FOR STANDARD DATA FILE (SDF) HANDLING	2533	J099	TOOLS, FILES
TYPE6	DISPLAY TYPE 6 FILE INFORMATION	2533	J072	FILES, SYSTEM
USE OF VMA10.SUB	TREAT VAM/EMA AS DISK FILES	* 2533	J127	FILES, EMA/VMA
FINANCE				
ROI	CALCULATE INTERNAL RATE OF RETURN AND PROFITABILITY	2533	J001	ACCOUNTING, FINANCE
FMGR				
FCOM	ISSUE FMGR COMMANDS FROM A PROGRAM	2533	J110	FMGR, PROCEDURES
FIXFMGR	FIX ODD BYTE COUNT FMGR RECORDS	2533	J043	TRANSPORTABLE, FMGR, CI
FONT				
FONT & JULIAN	SWEDISH-FINNISH AGP FONTS; TIME-RELATED ROUTINES	* 2533	J117	FONT, TIME
GFONT	INTERACTIVE FONT GENERATOR	2533	J045	FONT, TEXT, INTERACTIVE
FORMATTING				
ROFF1	TEXT FORMATTER STUG 1980 ROFF(FORMAT)	* 2533	J014	WORD PROCESSING, TEXT, FORMATTING
UDOCU	FORMATTED DOCUMENTATION PROGRAM	2533	J109	DOCUMENTATION, FORMATTING

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PROGRAM NAME PROGRAM DESCRIPTION REV. CONT. KEYWORDS

FORTRAN

B1D B1D WHETSTONE BENCHMARK FOR HP 1000 2533 J019 BENCHMARK, FORTRAN
 CMPAR COMPARE PARAMETERS IN FORTRAN SUBROUTINES 2533 J021 COMPARE, FORTRAN, DEBUG, CROSS-REFERENCE
 PRFTN FORTRAN SOURCE PREPROCESSOR 2533 J108 FORTRAN, PRE-PROCESSOR

GAMES

NEWSKI TERMINAL SKI GAME 2533 J051 GAMES
 ROGUE ROGUE GAME FILES FROM VAX 2533 J028 GAMES, VAX

GENERATION

CS80 TRACK MAP DVT TABLE 2533 J075 SYSTEM TABLES, DISC, GENERATION

GEOMETRY

IPR1S CALCULATE MOMENT OF INERTIA OF PRISMATIC BEAM 2533 J094 ENGINEERING, GEOMETRY

GRAPHICS

ANN01 DATA ENTRY / SAVING / PLOTTING PACKAGE 2533 J055 PLOTTING, GRAPHICS, STORAGE, DATA_MGMT
 BACKS INDEXES FOR BINDER BACKS 2533 J025 TEXT, LABEL, GRAPHICS
 BNOAL BRUNO COMPATIBLE PLOT PROGRAM 2533 J098 GRAPHICS
 D2225 DGL DEVICE HANDLER FOR THINKJET 2533 J100 GRAPHICS, DRIVER
 EPLOT INTERACTIVE PLOTTING PROGRAM 2533 J102 PLOTTING, GRAPHICS, INTERACTIVE
 GRPHX INTERACTIVE 3-DIMENSIONAL GRAPHICS PART 1 OF 2 2533 J089 GRAPHICS, INTERACTIVE
 GRPHX INTERACTIVE 3-DIMENSIONAL GRAPHICS PART 2 OF 2 2533 J090 GRAPHICS, INTERACTIVE
 SEE FILE WINDOWS FOR HP-232X TERMINALS 2533 J060 WINDOWS, GRAPHICS, TERMINAL
 TPLOT TRANSPARENCY PLOTTER (GRAPHICS 1000/II VERSION OF BRUNO) 2533 J069 GRAPHICS, PLOTTING

HELP

ADDIX, LIST HIGH-SPEED HELP-FILE FACILITY * 2533 J006 HELP, LIST
 DBEXP EXPLAIN DATA-BASE FORMAT 2533 J017 HELP, IMAGE, DATA_BASE
 FERR FORTRAN ERROR EXPLANATION * 2533 J122 ERROR, HELP, DEBUG, MESSAGE
 FORM MENU EDITING PROGRAM * 2533 J129 INTERACTIVE, HELP, DISPLAY
 HOW USER HELP PROGRAM 2533 J046 HELP, MESSAGE
 JB1NF DISPLAY GASP INITIALIZATION INFORMATION 2533 J020 HELP, SPOOLING
 NGL1B FILE ERROR REPORTING ROUTINES 2533 J052 ERROR, MESSAGE, HELP
 TRBL HELP FILE FOR SPECIFIC TOPICS 2533 J076 DOCUMENTATION, HELP
 VIEW VIEWSCREEN HANDLING PROGRAM 2533 J074 DOCUMENTATION, HELP, TERMINAL
 VTALK PROGRAMMATIC INTERFACE FOR HP27201A VOICE SPEECH SYNTHESIZER 2533 J113 SPEECH, HELP

HP1B

M2240 HP2240 EXERCISER 2533 J091 HP1B, MEASUREMENT

I/O

CP1C DIRECT, DMA, PRIVILEGED MODE I/O EXAMPLES 2533 J035 I/O, DMA, PRIVILEGED

INDEX BY KEYWORD

PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
IBM				
RJESY	DATA DISTRIBUTION TO/FROM IBM IN A DS ENVIRONMENT	2533	J097	RJE, IBM, DS, DATA_COMM
ID SEGMENTS				
IDCHK	ID SEGMENT CHECKER	2533	J086	SYSTEM, ID_SEGMENTS
KEEP	PROGRAM RP'ER AND ID-SEGMENT TWIDDLER	2533	J048	ID_SEGMENTS
RPCHK	CHECK FOR NON-RP'ABLE TYPE 6 FILES	2533	J058	FILES, ID_SEGMENTS, TRANSPORTABLE, SYSTEM
IMAGE				
DBEXP	EXPLAIN DATA-BASE FORMAT	2533	J017	HELP, IMAGE, DATA_BASE
DBMOD	DATA BASE MODIFIER	2533	J038	IMAGE, DATA_BASE, MODIFY
DBMOX	DATA BASE MODIFY PROGRAM	2533	J039	DATA_BASE, IMAGE, MODIFY
META	IMAGE-II DECLARATION GENERATOR FOR PASCAL	2533	J132	DATA_BASE, IMAGE, PASCAL
GBASE	IMAGE REPORT PROGRAM	2533	J057	REPORTS, IMAGE
TRINT	INTERPRET IMAGE-2 LOG FILE TRANSACTIONS	2533	J070	IMAGE, DATA_BASE
INITIALIZE				
DIMPX	ARRAY INITIALIZING PROGRAM	2533	J106	ARRAY, INITIALIZE, PRE-PROCESSOR
ERASE	ERASE A FMGR CARTRIDGE	2533	J042	PURGE, FILES, INITIALIZE
INPUT				
BATCH	BATCH INPUT FROM DISC OR LU	2533	J027	BATCH, INPUT
DCIEC	INPUT ROUTINES W/ERROR CHECKING FOR THE HP1000	2533	J080	ERROR, INPUT, INTERACTIVE
INTERACTIVE				
DCIEC	INPUT ROUTINES W/ERROR CHECKING FOR THE HP1000	2533	J080	ERROR, INPUT, INTERACTIVE
EPLOT	INTERACTIVE PLOTTING PROGRAM	2533	J102	PLOTTING, GRAPHICS, INTERACTIVE
FORM	MENU EDITING PROGRAM	2533	J129	INTERACTIVE, HELP, DISPLAY
GFONT	INTERACTIVE FONT GENERATOR	2533	J045	FONT, TEXT, INTERACTIVE
GRPHX	INTERACTIVE 3-DIMENSIONAL GRAPHICS PART 1 OF 2	2533	J089	GRAPHICS, INTERACTIVE
GRPHX	INTERACTIVE 3-DIMENSIONAL GRAPHICS PART 2 OF 2	2533	J090	GRAPHICS, INTERACTIVE
INTERPRETER				
LISP	LISP INTERPRETER FROM STUG TOY'S TAPE	2533	J013	INTERPRETER, LANGUAGE
LISP	LISP INTERPRETER	2533	J081	INTERPRETER, LANGUAGE, AI
INVERSE				
DCODE	DECODE RELOCATABLE RECORDS	2533	J079	INVERSE, RELOCATABLE
ORCAM	DIS-ASSEMBLER FOR FILES IN NEW FORMAT	2533	J003	INVERSE
LABEL				
BACKS	INDEXES FOR BINDER BACKS	2533	J025	TEXT, LABEL, GRAPHICS

INDEX BY KEYWORD

PROGRAM NAME PROGRAM DESCRIPTION REV. CONT. NO. KEYWORDS

LANGUAGE

LISP LISP INTERPRETER FROM STUG TOY'S TAPE * 2533 J013 INTERPRETER, LANGUAGE

LISP LISP INTERPRETER 2533 J081 INTERPRETER, LANGUAGE, AI

LIBRARY

ASUBS ASSEMBLY LANGUAGE SUBROUTINES 2533 J024 LIBRARY

FMPLB FMGR CALLS FOR CI FILES 2533 J044 CONVERSION, LIBRARY, EMULATOR, FILES

HP/C LIBRARIES HP/C COMPILER RUNTIME AND I/O LIBRARIES 2533 J031 LIBRARY, C, COMPILER

IVLIB GENERAL-PURPOSE LIBRARY 2533 J111 LIBRARY

TOULB HP150 TOUCH SCREEN SUBROUTINE LIBRARY 2533 J068 PC, LIBRARY

LINK

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CPLK AUTOMATIC COMPILE AND LINK PROCEDURE * 2533 J121 LINK, PROCEDURES

LIST

ADDIX, LIST HIGH-SPEED HELP-FILE FACILITY * 2533 J006 HELP, LIST

BLI BINARY FILE-LIST PROGRAM * 2533 J008 LIST, BINARY

DI LIST DIRECTORY TREE AND CHANGE WORKING DIRECTORY * 2533 J131 DIRECTORY, LIST

LIST LIST CI FILES WITH MASKED FILE NAMES * 2533 J124 LIST, CI

LIST PRINT TEXT-FILES * 2533 J130 LIST

NL FILE LISTING WITH LINENUMBERS IN CI-SYSTEM * 2533 J134 LIST

MAIL

MAIL ELECTRONIC MAIL SYSTEM 2533 J049 MAIL, MESSAGE, DATA_COMM

POST ELECTRONIC MAILBOX 2533 J092 MAIL, MESSAGE, DATA_COMM

SESSION RTE-A SESSION UTILITIES * 2533 J137 MAIL, MESSAGE, SESSION

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AR SOFTWARE TOOLS 'ARCHIVER' * 2533 J011 ARCHIVE, MAINTENANCE

MATHEMATICS

NYQUIST PLOT BASIC PLOTTING ROUTINES 2533 J112 ENGINEERING, MATHEMATICS, PLOTTING

PRIME PRINT PRIME NUMBERS BETWEEN LIMITS ENTERED * 2533 J010 DATA_BASE, MATHEMATICS

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SCAN MEMORY OCCUPATION 2533 J103 SYSTEM, MEMORY, ANALYZER

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SHERGE	SORT - MERGE FROM 1980 STUG BASIC TAPE	* 2533	J015	SORT, MERGE
MESSAGE				
FERR	FORTRAN ERROR EXPLANATION	* 2533	J122	ERROR, HELP, DEBUG, MESSAGE
HOW	USER HELP PROGRAM	2533	J046	HELP, MESSAGE
MAIL	ELECTRONIC MAIL SYSTEM	2533	J049	MAIL, MESSAGE, DATA COMM
NGLIB	FILE ERROR REPORTING ROUTINES	2533	J052	ERROR, MESSAGE, HELP
POST	ELECTRONIC MAILBOX	2533	J092	MAIL, MESSAGE, DATA COMM
SESSION	RTE-A SESSION UTILITIES	* 2533	J137	MAIL, MESSAGE, SESSION
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APPLE	DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE	2533	J023	APPLE, MODEM, DATA_COMM, PC
WHO	WHO'S ON LINE ON WHAT NUMBER	2533	J077	MODEM, ACCOUNTING
MODIFY				
DBMOD	DATA BASE MODIFIER	2533	J038	IMAGE, DATA BASE, MODIFY
DBBOX	DATA BASE MODIFY PROGRAM	2533	J039	DATA_BASE, IMAGE, MODIFY
SC	MAC/ICD SUBCHANNEL MODIFIER	2533	J088	DISC, SYSTEM_TABLES, MODIFY
MONITOR				
MSAM	MONITOR RUNNING OUT OF S.A.M	2533	J050	MONITOR, SYSTEM_TABLES
MULTI-PROGRAM				
M6942	HP6942 EXERCISER	2533	J096	MULTI-PROGRAM
VOICE	SPEECH SYNTHESIS USING HP6942 MULTIPROGRAMMER	2533	J095	MULTI-PROGRAM, SPEECH
PARSE				
CHDSTACK	COMMAND STACK SUBROUTINES	* 2533	J005	STACK, STRINGS, PARSE
PASCAL				
META	IMAGE-11 DECLARATION GENERATOR FOR PASCAL	* 2533	J132	DATA_BASE, IMAGE, PASCAL
PASCM	AUTOMATIC COMPILING/EDITING/LINKING	2533	J107	PRE-PROCESSOR, PASCAL
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PC				
APPLE	DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE	2533	J023	APPLE, MODEM, DATA_COMM, PC
ARF	TERMINAL EMULATION WITH APPLE IIC	2533	J115	DATA_COMM, TERMINAL, EMULATOR, APPLE, PC
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PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
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		2533	J002	STATUS, DEBUG, PERFORMANCE
PLOTTING				
ANN001 EPILOT NYQUIST PLOT TPLOT	DATA ENTRY / SAVING / PLOTTING PACKAGE INTERACTIVE PLOTTING PROGRAM BASIC PLOTTING ROUTINES TRANSPARENCY PLOTTER (GRAPHICS 1000/11 VERSION OF BRUNO)	2533	J055	PLOTTING, GRAPHICS, STORAGE, DATA_MGMT
		2533	J102	PLOTTING, GRAPHICS, INTERACTIVE
		2533	J112	ENGINEERING, MATHEMATICS, PLOTTING
		2533	J069	GRAPHICS, PLOTTING
PRE-PROCESSOR				
C CIPRE DIMPIN PASCOM PRFTM RC	COMPILE UTILITY CI PROGRAM PREPROCESSORS ARRAY INITIALIZING PROGRAM AUTOMATIC COMPILING/EDITING/LINKING FORTRAN SOURCE PREPROCESSOR 1984 RC, RAT77, RATP1, RATP2 & 1980 RAT4	* 2533	J138	COMPILER, PRE-PROCESSOR
		2533	J030	PRE-PROCESSOR, CI, COMPILER
		2533	J106	ARRAY, INITIALIZE, PRE-PROCESSOR
		2533	J107	PRE-PROCESSOR, PASCAL
		2533	J108	FORTRAN, PRE-PROCESSOR
		* 2533	J012	PRE-PROCESSOR, TOOLS, COMPILER
PRINTER				
DVP12 SCAN SPINW	LINEPRINTER DRIVER AND SUPPORT SOFTWARE HP 264X HARDCOPY PRINTOUT LETTER-QUALITY PRINTER SETUP UTILITY	2533	J040	DRIVER, PRINTER
		2533	J059	TERMINAL, PRINTER
		2533	J063	PRINTER, UTILITY, WORD_PROCESSING
PRIVILEGED				
CPIC	DIRECT, DMA, PRIVILEGED MODE I/O EXAMPLES	2533	J035	I/O, DMA, PRIVILEGED
PROCEDURES				
CPLK FCOM	AUTOMATIC COMPILE AND LINK PROCEDURE ISSUE FMGR COMMANDS FROM A PROGRAM	* 2533	J121	LINK, PROCEDURES
		2533	J110	FMGR, PROCEDURES
PURGE				
ERASE	ERASE A FMGR CARTRIDGE	2533	J042	PURGE, FILES, INITIALIZE
RELOCATABLE				
DCODE ENMAP EXMAP QXREF	DECODE RELOCATABLE RECORDS ENTRY POINT MAPPING UTILITY EXTERNAL REFERENCE MAPPING UTILITY RELOCATABLE-FILE CROSS-REFERENCER	2533	J079	INVERSE, RELOCATABLE
		2533	J082	RELOCATABLE, ENTRY_POINTS
		2533	J083	RELOCATABLE
		2533	J087	RELOCATABLE, CROSS-REFERENCE
REPORTS				
CPUSE QBASE VERIFY	24 HOUR CPU USAGE WITH PRINTOUT IMAGE REPORT PROGRAM FMGR CARTRIDGE VERIFICATION PROGRAM	2533	J036	ANALYZER, ACCOUNTING, REPORTS, PERFORMANCE
		2533	J057	REPORTS, IMAGE
		2533	J073	DIRECTORY, REPORTS, DATA_MGMT, STATUS

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PROGRAM NAME	PROGRAM DESCRIPTION	REV. NO.	CONT. NO.	KEYWORDS
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RJESY	DATA DISTRIBUTION TO/FROM IBM IN A DS ENVIRONMENT	2533	J097	RJE, IBM, DS, DATA_COMM
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SEARCH	FILE SEARCH PROGRAM WITH MASKED FILE NAMES	* 2533	J125	SEARCH, TEXT
SECURITY				
PSWD	CHANGE PASSWORDS IN @+CCT!	2533	J056	SESSION, SECURITY
SUPERUSER	MAKE USER SUPERUSER OR NON-SUPERUSER FOR SESSION	2533	J066	SESSION, SECURITY
SESSION				
PSWD	CHANGE PASSWORDS IN @+CCT!	2533	J056	SESSION, SECURITY
SESSION	RTE-A SESSION UTILITIES	* 2533	J137	MAIL, MESSAGE, SESSION
SUPERUSER	MAKE USER SUPERUSER OR NON-SUPERUSER FOR SESSION	2533	J066	SESSION, SECURITY
SOFTKEYS				
DUFI	DUMP FILE PROGRAM	* 2533	J120	SOFTKEYS, DUMP
KEYS	FUNCTION KEY DEFINITIONS	* 2533	J133	SOFTKEYS
NKEYS	USER KEYS PROGRAMMING FOR 262X CRTS	2533	J053	SOFTKEYS
TIME	SET SYSTEM TIME AND TEACH ABOUT SOFTKEYS	2533	J067	TIME, SOFTKEYS
SORT				
SMERGE	SORT - MERGE FROM 1980 STUG BASIC TAPE	* 2533	J015	SORT, MERGE
SPEECH				
VOICE	SPEECH SYNTHESIS USING HP6942 MULTIPROGRAMMER	2533	J095	MULTI-PROGRAM, SPEECH
VTALK	PROGRAMMATIC INTERFACE FOR HP27201A VOICE SPEECH SYNTHESIZER	2533	J113	SPEECH, HELP
SPOOLING				
JBINF	DISPLAY GASP INITIALIZATION INFORMATION	2533	J020	HELP, SPOOLING
QSPOL	EASY SPOOLER INTERFACE	2533	J034	SPOOLING
SPINT	SPOOL INTERFACE LIBRARY	2533	J062	SPOOLING
SPLUM	USER ACCESS TO SYSTEM SPOOL FILES	2533	J064	SYSTEM, SPOOLING
SPOOL	CI SPOOLING FOR RTE-6/VM	2533	J065	CONVERSION, SPOOLING
STACK				
CHDSTACK	COMMAND STACK SUBROUTINES	* 2533	J005	STACK, STRINGS, PARSE
STATUS				
TASC1	RTE TASK MONITOR PROGRAM	2533	J002	STATUS, DEBUG, PERFORMANCE
VERIFY	FMGR CARTRIDGE VERIFICATION PROGRAM	2533	J073	DIRECTORY, REPORTS, DATA_MGMT, STATUS

INDEX BY KEYWORD

PROGRAM NAME PROGRAM DESCRIPTION REV. CONT. KEYWORDS
 ----- ----- NO. -----

STORAGE

ANN01 DATA ENTRY / SAVING / PLOTTING PACKAGE 2533 J055 PLOTTING, GRAPHICS, STORAGE, DATA_MGMT

STRINGS

CMSTACK COMMAND STACK SUBROUTINES * 2533 J005 STACK, STRINGS, PARSE

SYSTEM

CMMA RTE-A SYSTEM ANALYZER 2533 J033 SYSTEM, SYSTEM_TABLES, ANALYZER
 IDCHK ID SEGMENT CHECKER 2533 J086 SYSTEM, ID_SEGMENTS
 RPCHK CHECK FOR NON-RP'ABLE TYPE 6 FILES 2533 J058 FILES, ID_SEGMENTS, TRANSPORTABLE, SYSTEM
 SCAN MEMORY OCCUPATION 2533 J103 SYSTEM, MEMORY, ANALYZER
 SNOOP EXAMINE SWAPPED PROGRAM 2533 J061 DEBUG, SYSTEM, UTILITY
 SPLUM USER ACCESS TO SYSTEM SPOOL FILES 2533 J064 SYSTEM, SPOOLING
 TYPE6 DISPLAY TYPE 6 FILE INFORMATION 2533 J072 FILES, SYSTEM

SYSTEM TABLES

CMMA RTE-A SYSTEM ANALYZER 2533 J033 SYSTEM, SYSTEM_TABLES, ANALYZER
 CS80 TRACK MAP DVT TABLE 2533 J075 SYSTEM_TABLES, DISC, GENERATION
 CDEF DEFINE CS/80 DISC TRACK MAP 2533 J018 SYSTEM_TABLES, DISC
 DATA EQUIPMENT TABLE PRINT OUT 2533 J037 SYSTEM_TABLES, EQT
 DVT GET DVT & IFT INFO * 2533 J136 SYSTEM_TABLES, EQT
 EQTS EQUIPMENT TABLE ACCESS 2533 J041 SYSTEM_TABLES, EQT
 MSAM MONITOR RUNNING OUT OF S.A.M 2533 J050 MONITOR, SYSTEM_TABLES
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 TRKDX CHECK DISC MAP FOR MAC AND ICD DISCS 2533 J022 SYSTEM_TABLES, DISC

TERMINAL

ARF TERMINAL EMULATION WITH APPLE IIC 2533 J115 DATA_COMM, TERMINAL, EMULATOR, APPLE, PC
 SCAN HP 264X HARDCOPY PRINTOUT 2533 J059 TERMINAL, PRINTER
 SEE FILE WINDOWS FOR HP-232X TERMINALS 2533 J060 WINDOWS, GRAPHICS, TERMINAL
 VIEW VIEWSCREEN HANDLING PROGRAM 2533 J074 DOCUMENTATION, HELP, TERMINAL

TEXT

BACKS INDEXES FOR BINDER BACKS 2533 J025 TEXT, LABEL, GRAPHICS
 GFONT INTERACTIVE FONT GENERATOR 2533 J045 FONT, TEXT, INTERACTIVE
 PATRN SUB-LINEAR & LINEAR PATTERN MATCHING FUNCTIONS * 2533 J016 COMPARE, WORD_PROCESSING, EDITOR, TEXT
 ROFF1 TEXT FORMATTER STUG 1980 ROFF(FORMAT) * 2533 J014 WORD_PROCESSING, TEXT, FORMATTING
 SEARCH FILE SEARCH PROGRAM WITH MASKED FILE NAMES * 2533 J125 SEARCH, TEXT
 SEARCH TEXT EDITOR 2533 J114 TEXT, EDITOR, WORD_PROCESSING
 WOLF WORD ORIENTED LINE FORMATTER * 2533 J128 TEXT, WORD_PROCESSING

INDEX BY KEYWORD

PROGRAM NAME PROGRAM DESCRIPTION

REV. NO. CONT. NO. KEYWORDS

TIME

FONT & JULIAN SWEDISH-FINNISH AGP FONTS; TIME-RELATED ROUTINES
 ANOTHER OP-SYS TIME-SETTING PROGRAM
 SET SYSTEM TIME AND TEACH ABOUT SOFTKEYS
 TIME SUBROUTINES

* 2533 J117 FONT, TIME
 * 2533 J007 TIME
 2533 J067 TIME, SOFTKEYS
 2533 J071 TIME

TOOLS

RC 1984 RC, RAT77, RATP1, RATP2 & 1980 RAT4
 STIPP SOFTWARE TOOLS IN PASCAL PRIMITIVES
 TOOLS TOOLKIT FOR STANDARD DATA FILE (SDF) HANDLING

* 2533 J012 PRE-PROCESSOR, TOOLS, COMPILER
 * 2533 J009 UTILITY, TOOLS, PASCAL
 2533 J099 TOOLS, FILES

TRANSPORTABLE

FIXFMGR FIX ODD BYTE COUNT FMGR RECORDS
 RPCHK CHECK FOR NON-RP-ABLE TYPE 6 FILES

2533 J043 TRANSPORTABLE, FMGR, CI
 2533 J058 FILES, ID SEGMENTS, TRANSPORTABLE, SYSTEM

UTILITY

CLINK CONDITIONAL LINK
 SHOOP EXAMINE SWAPPED PROGRAM
 SPINW LETTER-QUALITY PRINTER SETUP UTILITY
 STIPP SOFTWARE TOOLS IN PASCAL PRIMITIVES

* 2533 J119 LINK, CI, UTILITY
 2533 J061 DEBUG, SYSTEM, UTILITY
 2533 J063 PRINTER, UTILITY, WORD_PROCESSING
 * 2533 J009 UTILITY, TOOLS, PASCAL

VAX

ROGUE ROGUE GAME FILES FROM VAX

2533 J028 GAMES, VAX

WINDOWS

SEE FILE WINDOWS FOR HP-232X TERMINALS

2533 J060 WINDOWS, GRAPHICS, TERMINAL

WORD_PROCESSING

PATRN SUB-LINEAR & LINEAR PATTERN MATCHING FUNCTIONS
 ROFF1 TEXT FORMATTER STUG 1980 ROFF(FORMAT)
 SPELLR SPELLING CHECKER
 SPINW LETTER-QUALITY PRINTER SETUP UTILITY
 TEXED TEXT EDITOR
 WOLF WORD ORIENTED LINE FORMATTER

* 2533 J016 COMPARE, WORD_PROCESSING, EDITOR, TEXT
 * 2533 J014 WORD_PROCESSING, TEXT, FORMATTING
 2533 J004 WORD_PROCESSING
 2533 J063 PRINTER, UTILITY, WORD_PROCESSING
 2533 J114 TEXT, EDITOR, WORD_PROCESSING
 * 2533 J128 TEXT, WORD_PROCESSING



SECTION IV

CSL/1000 Release 2533

PROGRAM ABSTRACTS

CALCULATE INTERNAL RATE OF RETURN AND PROFITABILITY

```

Contribution Name.....: ROI
Title.....: Calculate Internal Rate of Return and Profitability
File Names.....:00. Rename Transfer File
                  :01. 'ROI      Submission file
                  :02. &ROI    -- ROI SOURCE
                  :03. #ROI     LOADER COMMANDS
Operating System.....: RTE-IVB
Language(s).....: FTN4
Keywords.....: ACCOUNTING
                  : FINANCE
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: McCabe, John J.
Company.....: Hewlett-Packard - SPD
Street.....: 1501 Page Mill Road
City.....: Palo Alto
State.....: CA
Country.....: U.S.A.
Zip Code.....: 94304
Phone Number...: (415) 857-3153

```

Program Abstract.....:

The ROI, Return On Investment, program will calculate the internal rate of return and profitability index on capital equipment purchases. The internal rate of return or return on investment is the interest rate that makes the Net Present Value of the investment zero. The Profitability Index is the ratio of the Net Present Value (at a given Cost of Capital) of the Operating Advantages to the Initial Investment. The Profitability Index will be greater than one if the investment returns more than the cost of capital. The program allows one to print the results on a line printer in case one's terminal does not have a printer.

Additional Documentation.....:

Use transfer file /ROI

Enter RU,ROI -- The program is interactive.

The program is currently hardcoded to LU 6 for an HP2610 line printer and LU 56 for an HP7310 line printer; these are easily changed.

```

-----
Contribution Name.....: TASC1
Title.....: RTE TASK MONITOR PROGRAM
File Names.....:00. Rename Transfer File
                  :01. 'TASC      Submission file
                  :02. &TASC1
                  :03. &TASC2
                  :04. &TASC3
Operating System.....: RTE-IVB
Language(s).....: ASMB
                  :FTN4(X)
Keywords.....: STATUS
                  :DEBUG
                  :PERFORMANCE
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: MILLER, BRADFORD W.
Company.....: ACCESS CORPORATION
Street.....: 4815 PARA DR.
City.....: CINCINNATI
State.....: OH
Country.....: USA
Zip Code.....: 45237
Phone Number...: (513) 242-4220
Program Abstract.....:
PROGRAMS TASC1,TASC2 AND TASC3 MONITOR THE STATE OF UP TO TEN TASKS
RUNNING UNDER THE RTE-IVB SYSTEM. TASC2 DIRECTLY ACCESSES THE ID
SEGMENTS AND OTHER ENTRY POINTS IN TABLE AREA I AND II TO DETERMINE
EXACT PROGRAM STATE. THIS STATE IS KEPT IN A TABLE WHICH TASC3 WILL
ANALYZE AND REPORT ON.
Additional Documentation.....:
TASC2 MUST BE NORMAL BG, WITH TABLE AREA II ACCESS.
TASC1 AND TASC3 HAVE NO SPECIAL LOAD REQUIREMENTS.
RU,TASC1,P1 WHERE P1 IS INPUT LU.
THIS WILL BOOT TASC2.
RU,TASC3,P1 WHERE P1 IS INPUT LU WILL PRODUCE REPORT.
TASC1 WILL PROMPT USER FOR A DISK FILE TO STORE TASC2'S PERFORMANCE
TABLE. THIS WILL ALSO BE NEEDED BY TASC3 TO PRODUCE THE REPORT.
TASC2 RUNS CONTINUOUSLY. BR,TASC2 WILL CAUSE TASK2 TO OUTPUT ITS
INTERNAL TABLE TO THE DISK FILE. THIS CAN BE DONE ON A CONTINUING
BASIS, OR TASC2 CAN BE OFF'D AFTERWARD.
EACH PROGRAM ENTERED TO TASC1 IS MONITORED BY TASC2. TASC2 WILL
KEEP A TABLE OF THE STATE IT FINDS EACH PROGAM IN AT INTERVALS
WHICH ARE DEFINED BY THE USER IN TASC1. TASC3 WILL OUTPUT A REPORT
OF THE STATES ENCOUNTERED AND THE PERCENTAGE OF THE ENTIRE TIME
THE PROGRAM WAS FOUND IN THIS STATE.
NOTE:: THIS INCLUDES STATE 0 (DORMANT), SO THIS PROGRAM SHOULD
BE USED ON A COMPARATIVE BASIS ONLY. ACTUAL EFFICIENCY SHOULD BE
DETERMINED BY USING THE HP PERFORMANCE MONITOR.
SHOULD TASC2 BE UNABLE TO DETERMINE A PROGRAM'S STATE, A SIMPLE
DIAGNOSTIC WILL BE OUTPUT TO LU 1.

```

DIS-ASSEMBLER FOR FILES IN NEW FORMAT

```

-----
Contribution Name.....: ORCAM
Title.....: Dis-assembler for files in new format
File Names.....:00. Rename Transfer File
                  :01. 'ORCAM   Submission file
                  :02. &ORCAM
                  :03. %ORCAM
                  :04. &ABSOL
                  :05. %ABSOL
                  :06. %FF4.F
                  :07. #ORCAM
                  :08. ORCCOM  COMMON BLOCK
                  :09. CORCAM  COMPILE AND LOAD
                  :10. INFORC  INFORMATION ON ORCAM
Operating System.....: RTE-6, RTE-A
Language(s).....: MACRO
Keywords.....: 1. INVERSE
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: John Evans
Company.....: Smiths Industries
Street.....: Winchester Rd.
                  :
                  : City.....: Basingstoke
                  : State.....: Hampshire
                  : Country.....: England
                  : Zip Code.....:
                  : Phone Number...:
Program Abstract.....: RU,ORCAM to see the required
Additional Documentation....: run string parameters.
-----

```

SPELLING CHECKER

```

-----
Contribution Name.....: SPELLR
Title.....: Spelling checker
File Names.....:00. Rename Transfer File
                  :01. 'SPELLR  Submission file
                  :02. "SPELLR  documentation and hints
                  :03. #SPELLR  link command file
                  :04. &SPELLR  source code in FTN7X
                  :05. %SPELLR  relocatable
                  :06. &SPELB  lib or reqd subr's
                  :07. %SPELB  relocatable subr's
                  :08. &IBTWN  required subr's
                  :09. %IBTWN  relocatable
                  :10. DICFIL  the dictionary (600 blocks)
Operating System.....: RTE-6/VM, RTE-A
Language(s).....: FORTRAN 77, requires C.83 or later
Keywords.....: 1. WORD PROCESSING
External Support Req'd...: C.83 or later, EMA
If Re-submission, Reason.:
Contributor's Name.....: F. Stephen Gauss
Company.....: U.S. Naval Observatory
Street.....: 34th St. and Massachusetts Ave. NW
City.....: Washington
State.....: DC
Country.....: U.S.A.
Zip Code.....: 20390
Phone Number...: (202) 653-1510
Program Abstract.....: This is a fast spelling checker. It allows
Additional Documentation....: you to correct words interactively and
to add them to the dictionary. A
dictionary of over 3000 words is supplied
and space is allocated for over 10000 words.
EMA and C.83 are required. The program
reads the dictionary into EMA and then
processes text at about 250 words per
second on an A-900.
See the "SPELLR file.
-----

```

```

Contribution Name.....: CMDSTACK
Title.....: COMMAND STACK Subroutines
File Names.....:00. Rename Transfer Fileis file
:01. CMDSTACK.SBMT Submission file
:02. CMDSTACK.MAC - Command Stack Mgr
:03. LEFTJUSTIFY.MAC - Delete Lead Spaces
:04. PUTINCOMMAS.MAC - Smaller & Better
:05. APPEND.FTN - Append Strings
Operating System.....: RTE-A, RTE-6, perhaps more
Language(s).....: MACRO, FTN77
Keywords.....: 1. STACK
: 2. STRINGS
: 3. PARSE
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Donald A. Wright
Company.....: Interactive Computer Technology
Street.....: 2069 Lake Elmo Avenue North
City.....: Lake Elmo
State.....: MN
Country.....: USA
Zip Code.....: 55042
Phone Number...: 612/770-3728
Program Abstract.....:
    
```

CMDSTACK is a subroutine which can be used to give a program a command-stack capability almost exactly the same as that found in EDIT and CI. It has these properties:

1. It allows the same /, /n, and //-/ commands.
2. It can go to any specified, LU, using XLUEX for its I/O.
3. The stack is a character variable passed in by the calling program, and may be any length.
4. Stack entries are variable-length to conserve stack space.
5. There is no fixed limit on the number of saved stack entries.

LEFTJUSTIFY is a subroutine which must somehow have been inadvertently omitted from the Relocatable Library. It has the simple function of deleting leading blanks from a character variable, a very handy function when analyzing keyboard-input strings. It is called by CMDSTACK.

PUTINCOMMAS is just over 1/3 as large as the HP Relocatable Library subroutine of the same name (which got bigger at the A.85 release). It has the same specifications, but works slightly better: it has no limitations on parameter length and it does not delete a trailing comma. Use it when space is tight.

APPEND is a subroutine which appends the nonblank characters of a string to the nonblank characters in another, placing a specified number of blanks between. It does this with no danger of a runtime error regardless of the value or length of either string. It is very handy when generating readable text with strings having variable nonblank lengths.

Additional Documentation....:

Each subroutine is sufficiently documented within its source code.

HIGH-SPEED HELP-FILE FACILITY

```

-----
Contribution Name.....: ADDIX, LIST
Title.....: High-Speed Help-File Facility
File Names.....:00. Rename Transfer Filee
                  :01. ADDIX.SBMT Submission file
                  :02. ADDIX.FTN - File-indexing Program
                  :03. LIST.FTN - Help-Display Subroutines
Operating System.....: RTE-A, RTE-6, New File System
Language(s).....: FTN77
External Support Req'd...: CI
Keywords.....: 1. HELP
                  : 2. INSTRUCTION
If Re-submission, Reason.:
Contributor's Name.....: Donald A. Wright
Company.....: Interactive Computer Technology
Street.....: 2069 Lake Elmo Avenue North
City.....: Lake Elmo
State.....: MN
Country.....: USA
Zip Code.....: 55042
Phone Number...: 612/770-3728
Program Abstract.....:

```

ADDIX and LIST comprise a mechanism for providing a HELP facility in an interactive program. These characteristics are provided:

1. HELP text file can be extremely large, or very small.
2. HELP text file can also be the manual for the program or system, with no changes whatever.
3. Access to help is VERY fast, using binary search on ordered index.
4. HELP is listed in screenfuls with pauses (same operation as the LI program).
5. Not much program space is required.

ADDIX takes an input file prepared with marked HELP keywords and copies it to a new file with an ASCII index appended. ADDIX is well documented and explains the preparation of the HELP text file.

LIST is called by the program using the HELP facility. It opens the HELP file (first entry only), performs the binary search on the index, then goes directly to the keyword and lists the text following. LIST actually consists of two subroutines, and is well documented.

This is the same HELP facility as is used in the commercial package called CONNECT.

Contribution Name.....: TIME
Title.....: Another Op-Sys Time-Setting Program
File Names.....:00. Rename Transfer File
 :01. TIME.SBMT Submission file
 :02. TIME.FTN - Time-setting program
Operating System.....: RTE-A, RTE-6, New File System
Language(s).....: FTN77
Keywords.....: 1. TIME
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Donald A. Wright
Company.....: Interactive Computer Technology
Street.....: 2069 Lake Elmo Avenue North
City.....: Lake Elmo
State.....: MN
Country.....: USA
Zip Code.....: 55042
Phone Number...: 612/770-3728
Program Abstract.....:

TIME is a handy program intended to be used to set the system time at bootup. It has these characteristics:

1. Entries are in ordinary time (no Julian dates, etc.)
 2. Last-entered times are saved in a file for next time.
 3. Time prompts for year, month, day, hour, and minute separately.
 4. When TIME prompts for values, it shows the last-entered value as the default to be accepted of RETURN is entered with no data, often permitting most values to be defaulted.
 5. TIME won't let a non-superuser (or non-MANAGER) run it.
- Just put RU TIME in the WELCOM(x.COMD) file to have a high level of integrity in system time.

Additional Documentation.....:

TIME is well documented in its source.

 BINARY FILE-LIST PROGRAM

Contribution Name.....: BLI
 Title.....: Binary File-List Program
 File Names.....:00. Rename Transfer File
 :01. BLI.SBMT Submission file
 :02. BLI.FTN - Binary File Lister
 Operating System.....: RTE-A, RTE-6, New File System
 Language(s).....: FTN77
 Keywords.....: 1. LIST
 : 2. BINARY
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Donald A. Wright
 Company.....: Interactive Computer Technology
 Street.....: 2069 Lake Elmo Avenue North
 City.....: Lake Elmo
 State.....: MN
 Country.....: USA
 Zip Code.....: 55042
 Phone Number...: 612/770-3728
 Program Abstract.....:

Problem: The LI program provided with the New File System will not list binary files (or any files) to an LU other than the local terminal, nor will it list records longer than 256 characters.

BLI lists files in exactly the same binary format as is used by LI, but has these advantages:

1. It allows specification of the output device.
2. It permits reading and listing records of up to 8192 characters, expandable to over 30,000 characters per record if necessary.

BLI will read from a device (e.g. tape drive) as well as a file. It does permit specifying a start record and an end record for the source, whether a file or a device.

Additional Documentation.....:

BLI is fairly well documented in its source. If invoked with no parameters it will display a USAGE: help line.

```

-----
Contribution Name.....: stipp
Title.....: Software Tools In Pascal Primitives.
File Names.....: 00. Rename transfer file.
                  01. stipp.sbmt - Submission file.
                  02. &stipp - Pascal Primitives for HP-1000.
Operating System.....: RTE-6/VM rev: 2310.
Language(s).....: Pascal rev: 2326.
Keywords.....: 1. Utility
                  2. Tools
                  3. PASCAL
                  4.
                  5.
External Support Req'd...: Copywritten material from Addison-Wesley.

                               The Book: Software Tools in Pascal
                               Kernighan & Plauger
                               Addison-Wesley, 1981
                               ISBN: 0-201-10342-7
                               The Tape: Addison Wesley part # 10343
                               Cost is about $60.

If Re-submission, Reason.:
Contributor's Name.....: Rich Drescher
Company.....: 3M - Imaging Systems Division
Street.....: 1999 Mt. Read Blvd.
City.....: Rochester,
State.....: N. Y.,
Country.....:
Zip Code.....: 14615
Phone Number...: (716)-458-2920
Telex.....:
Program Abstract.....: Library of primitives with a driver.

Export version of Software Tools in Pascal Primitives.

All unmodified copywritten material has been removed. However, the
headers to the code has been retained in order to help place
the procedures & functions in their proper order once they are
bought from Adison-Wesley.

This file contains the primitives needed to implement the copywritten
Software Tools in Pascal on HP-1000.

Additional Documentation....: The book and tape from Addison-Wesley.
                               The original Software Tools in ratfor.

```


PRINT PRIME NUMBERS BETWEEN LIMITS ENTERED

```

Contribution Name.....: Prime
Title.....: Print prime numbers between limits entered.
File Names.....: 00. Rename transfer file.
                  01. prime.sbmt Submission file.
                  02. &prime Fortran source.
                  03. *prime Relocatable.
Operating System.....: RTE-ALL
Language(s).....: Fortran-77 + Mil-Std-1753.
Keywords.....: 1. DATABASE
                2. Numeric
                3. Mathematics
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Rich Drescher
Company.....: 3M
Street.....: 1999 Mt. Read Blvd.
City.....: Rochester
State.....: N. Y.
Country.....:
Zip Code.....: 14615
Phone Number...: (716)-458-2920
Telex.....:

```

Program Abstract.....:

1. Utility
 - For usage when creating an Image Master data set in order to set the 'capacity' to a prime number.
2. Usage
 - Ru, prime
 - Program prompts for min, max values & output LU nr.
 - Enter min & max limits for approximant 'capacity' of Data Set.
 - Accepts integer values 1..integer*4.
 - Program prints all prime numbers between range given to the LU entered.
3. Bugs/Deficiencies
 - Numbers must be positive.
 - Not exactly blinding fast for large numbers.
 - LU must be entered and must be in user SST.

Additional Documentation.....:

```
-----
Contribution Name.....: ar
Title.....: Software Tools 'archiver'
File Names.....: 00. Rename transfer file.
                  01. ar.sbmt - Submissions file.
                  02. ar.ar - The ar archive.
                  03. ar.r - ratfor source.
                  04. ar.ftn fortran
                  05. ar.rel relocatable
                  06. ar.doc allready roff'ed documentation
Operating System.....: RTE-6, RTE-A rev: 2340
Language(s).....: ratfor - STUG 1980 version.
Keywords.....: 1. ARCHIVE
                  2. Maintenance
                  3.
                  4.
                  5.
External Support Req'd...:
If Re-submission, Reason.: CI & FMGR file compatable.
Contributor's Name.....: Rich Drescher
Company.....: 3M - Imaging Systems Division
Street.....: 1999 Mt. Read Blvd.
City.....: Rochester,
State.....: N. Y.,
Country.....:
Zip Code.....: 14615
Phone Number...: (716)-458-2920
Telex.....:
Program Abstract.....: Combines several files into one for house-
                        keeping efficiency.
                        Commonly used in a Software Tools shop.
```

link with libraries: fnewf.HP and rcl.r + fmp.r from the rc contribution.

Additional Documentation....: UNIX manuals on 'ar'.

1984 RC, RAT77, RATP1, RATP2 & 1980 RAT4

```

Contribution Name.....: rc
Title.....: 1984 rc, rat77, ratp1, ratp2 & 1980 rat4
              Joe Sventek's Beta ratfor from STUG Toy Tape
File Names.....: 00. Rename transfer file.
              : 01. rc.sbmt - Submissions file.
              : 02. rc.r - 1984 STUG ratfor (Hollerith).
              : 03. rc.f -
              : 04. rc.o -
              : 05. r77.r - 1984 STUG ratfor (Character*77).
              : 06. r77.f -
              : 07. r77.o -
              : 08. rpl.r - 1984 STUG ratfor (Data array).
              : 09. rpl.f - First pass of two.
              : 10. rpl.o -
              : 11. rp2.r - 1984 STUG ratfor (Data array).
              : 12. rp2.f - Second pass of two.
              : 13. rp2.o -
              : 14. rat4.r - 1980 STUG ratfor (Hollerith).
              : 15. rat4.f -
              : 16. rat4.o -
              : 17. rcl.ar - rc library & primitives.
              : 18. rcl.f -
              : 19. rcl.o -
              : 20. ds.ar - /dsmem/ EMA library archive.
              : 21. ds.f -
              : 22. ds.o -
              : 23. fmp.ar - IO using CI FMP calls.
              : 24. fmp.f - Currently used for my
              : 25. fmp.o - AR tool only.
              : 26. ratdef - PUT ratdef in /Libraries.
              : 27. common - ratfor common blocks.
              : 28. rat4.doc - 1980 ratfor
              : 29. rc.doc - 1984 rc, rat77, rat_pass_1_&_2
              : 30. primer - ratfor tutorial.
              : 31. libsym.r - from the Toy's Tape. Not used.
              : 32. remarksym.r " " " " " "
              : 33. rtsg.d - LBL RTSG standard RATDEF file
              : - for VAX, etc. Toy Tape file 2.
Operating System.....: RTE-6, RTE-A rev: 2340
Language(s).....: ratfor is written in ratfor.
Keywords.....: 1. Pre-processor
              : 2. Tools
              : 3. Compiler
External Support Req'd...:
If Re-submission, Reason.: These are new versions from the STUG Toy Tape
                          released in 1984. These versions have
                          enhanced capabilities and performance.
                          The re-submission of 1980 rat4 is both FMGR
                          and CI, RTE-6 and RTE-A compatible.
Contributor's Name.....: Rich Drescher
Company.....: 3M - Imaging Systems Division
Street.....: 1999 Mt. Read Blvd.
City.....: Rochester,
State.....: N. Y.,
Country.....:
Zip Code.....: 14615
Phone Number...: (716)-458-2920
Telex.....:
Program Abstract.....:

```

Ratfor is a pre-processor that provides Fortran with control syntax and enhancements (such as macro expansion) similar to the language C. Of greater significance is it's proven ability as a language for the development of portable text-oriented software.

(cont)

The 1984 (Beta) versions of one of the following: rc, rat77, rat-pass1 and pass2 are required to compile the ratfor public domain versions of:

1. LISP - language.
2. LEX - lexical analyzer generator.
3. YACC - Yet Another Compiler-Compiler. Parser generator.

as well as the copywritten Columbia Univ. KERMIT protocol in ratfor.
Note: The copyright is to protect the protocol from those who would distribute KERMIT for profit.

While the above programs are being submitted, none are ready for use on HP-1000. They are VAX and HP-3000 versions.

See the rc.doc file for an explanation of the different Beta versions of ratfor, primarily with regard to internally passing data and the resultant potential capabilities.

Also included is a FMGR and CI file compatible version of 1980 ratfor that is required for public domain programs on the STUG Basic tape (as I haven't been able to get RATFIX working.)

Ratfor was originally introduced by Kernighan and Plauger in the book Software Tools, which has also been published in Pascal. In both cases the 'tools' concept advocates a programming structure, analysis and technique that transcends the language.

Ratfor was developed and is implemented such that it is a portable language. It has been used to address the problem of people portability across heterogeneous computer environments. This work is in the public domain and available from the STUG for VAX/VMS, RSX-11M, Tops-20, UNIX 4.1 BSD, IBM/CMS, IBM/MVS, Univax 1100, Sel MPX, and HP-1000 IVB + 6/VM. Versions for HP-3000, CP/M and MS/DOS have been commercially introduced. People portability is addressed in that a UNIX like SHELL (OS) is usually implemented for the above systems together with as many as 50 common utilities.

See also: The LBL RTSG library rlib.ar in the LISP archive from the STUG Toy's Tape. This library contains many procedures that I have not yet added to my library. It also has many VAX VMS assembly language primitives.

The YACC and LEX support libraries for portable bit string routines, dynamic memory routines, and more.

CSL-2433 I055-- SWTOOL for the full STUG Basic Tape as files Fl..Fl6 and Larry Dwyer's primitives, which are to be preferred over mine by those using only FMGR files or who do not have EMA.

Note:

1. I use the Hollerith versions of ratfor & rc. Programs compiled with rat77 or ratpass1 will need appropriate versions of REMARK.
2. Link all versions EB with libraries rcl.lib, ds.lib, fnewf.lib
3. Put RATDEF in /Libraries.
4. Type 'character' is Software Tools character. R1 format. Type 'CHARACTER' or 'Character' is Fortran-77 character*. All filenames must be of this type.
5. Maximum number of files open at the same time is 7 disk plus 3 LU's. Dynamic memory /dsmem/ is set to 30,000 in EMA.
6. Does not support random access file io. CSL-2433-I055-- does.
7. Is about as slow as the HP Pascal compiler.

(cont)



8. 1984 versions produce better Fortran than the 1980 version.
9. Contrary to statements within the documentation files, this version of rat77 does use /libraries/RATDEF for macros.
10. Do not use file extensions for RATDEF. That activates some undocumented logic regarding SUFFEX & PATH names.
11. The tools AR and ROFF(format) are pretty basic when working with material written in a Software Tools shop.

Additional Documentation....: Software Tools by Kernighan & Plauger
from Addison-Wesley.

Documentation and tutorial files.

UNIX manuals (rc, file re-direction, etc).

Software Tools Users Group
140 Center St.
El Segundo, Calif. 90245
(213)-322-2574

Other fortran pre-processors: FLECS on CSL-2433-1044--
efl on UNIX systems

Pre-processors for any language: 'macro' in the Software Tools (like
the ratfor & C macro expander.)
m4 on UNIX systems.

Other techniques for portability: KARRTN fortran primitives. public domain.
PFORT verifier.
These techniques were used for the
development of the STAT-80 package
and may be better than ratfor for the
development of portable mathematical
oriented software.

LISP INTERPRETER FROM STUG TOY'S TAPE

```

-----
Contribution Name.....: lisp
Title.....: lisp interpreter from STUG Toy's Tape.
              : This material is in the Public Domain.
              : It will NOT run on the HP1000 as is.
File Names.....: 00. Rename transfer file.
              : 01. lisp.sbmt - Submission file.
              : 02. lisp.ar - Lisp archive. Toy' Tape file 11.
              : 03. readme.lisp - File 1 on the Toy's Tape.
Operating System.....: VAX under VMS and Software Tools environment.
Language(s).....: 1984 (Beta version of) ratfor.
Keywords.....: 1. Interpreter
              : 2. Language
              : 3.
              : 4.
              : 5.
External Support Req'd...: Beta ratfor, ratfor library, AR, roff(format)
If Re-submission, Reason.:
Contributor's Name.....: Rich Drescher
Company.....: 3M - Imaging Systems Division
Street.....: 1999 Mt. Read Blvd.
              :
City.....: Rochester,
State.....: N. Y.,
Country.....:
Zip Code.....: 14615
Phone Number...: (716)-458-2920
Telex.....:
Program Abstract.....: The language LISP.

```

Originally developed on an HP-1000 by C. Doulan & D. Martin.
 Since moved, modified for VAX/VMS and possibly enhanced by unknown
 authors. This material is in the public domain.

Following is from the Toy' Tape readme file:

FILE 11 -- LISP ARCHIVE

And they said it couldn't be done! A reasonably well-endowed LISP interpreter written (almost) entirely in RatFor. Originally developed for an HP-1000 minicomputer (of all things), this LISP has been residing of late in the memory-rich VAX/VMS environment. The basic overlaying strategy from the HP has been retained, however, so porting it back down to a smaller machine shouldn't be too terrible. If you're not running on a VAX, you'll need to write equivalents for the recursion-handling routines in "rcrsv.mar". Since LISP requires quite a few primitives and library routines you may not have on your local system, we have included our entire runtime library as archive "rlib.ar" in the LISP archive. Note: Please don't become too attached to this particular dialect of LISP. When COMMON LISP becomes available, we plan to rework this one to be as compatible as possible.

Additional Documentation....:

TEXT FORMATTER STUG 1980 ROFF(FORMAT)

Contribution Name.....: roff1
Title.....: Text Formatter STUG 1980 roff(format).
File Names.....: 00. Rename transfer file.
 : 01. roff1.sbmt - Submissions file.
 : 02. roff1.ar - Full archive.
 : 03. &roff1 - Fortran with include files.
 : 04. %roff1 - Relocatable
 : 05. "roff1 - Documentation allready roff'ed
Operating System.....: RTE-6, RTE-A
Language(s).....: ratfor (1980 release)
Keywords.....: 1. Word Process
 : 2. Text
 : 3. Formatting
External Support Req'd...: ratfor library 'rcl'.
If Re-submission, Reason.: FMGR & CI files compatable.
 : Needed for printing STUG documentation.
Contributor's Name.....: Rich Drescher
Company.....: 3M - Imaging Systems Division
Street.....: 1999 Mt. Read Blvd.
 :
City.....: Rochester,
State.....: N. Y.,
Country.....:
Zip Code.....: 14615
Phone Number...: (716)-458-2920
Telex.....:
Program Abstract.....: Text formatter used for STUG documentation.
Bugs/Deficiencies: Has problems with underlining and bold print.
 : Does not understand the 1984 roff2 tab command.
Advantages: Works better than my version of roff2.
Additional Documentation....: nroff on UNIX systems.

SUB-LINEAR & LINEAR PATTERN MATCHING FUNCTIONS

Contribution Name.....: patrn
Title.....: Sub-linear & linear Pattern matching functions.
File Names.....: 00. Rename transfer file.
: 01. patrn.sbmt - Submission file.
: 02. patrn.ar
: - Software Tools Archive of the
: - Boyer Moore sub-linear search.
: - Knuth, Morris, Pratt search.
: - Driver to test the functions.
: - Documentation.
Operating System.....: RTE-6, RTE-A
Language(s).....: ratfor - 1984 beta version from STUG.
Keywords.....: 1. Compare
: 2. Word Process
: 3. Editor
: 4. Text
External Support Req'd...: Software Tools Enviroment.
: 1980 ratfor from CSL 2433 (FMGR only).
: 1980 or 1984 ratfor from STUG.
If Re-submission, Reason.:
Contributor's Name.....: Rich Drescher
Company.....: 3M - Imaging Systems Division
Street.....: 1999 Mt. Read Blvd.
: City.....: Rochester,
: State.....: N. Y.,
Country.....:
Zip Code.....: 14615
Phone Number..: (716)-458-2920
Telex.....:
Program Abstract.....: Fastest known pattern matching algorithms
: for non-binary alphabets.
: Excellent for writting a portable 'grep'
: and for use with 'find' commands within
: portable file listing programs.
Additional Documentation....: In the archive and literature referances.

EXPLAIN DATA-BASE FORMAT

```

-----
Contribution Name.....: DBEXP
Title.....: Explain data-base format
File Names.....: 00. Rename transfer file
                  : 01. 'DBEXP Submission file
                  : 02. &DBEXP Source file
                  : 03. &DBERR Source file
                  : 04. #DBEXP Loader file

Operating System.....: RT6VM
Language(s).....: FTN77
Keywords.....: 1. Help
                  : 2. Image
                  : 3. DataBase

External Support Req'd...: IMAGE/1000 92069 LIBRARY
If Re-submission, Reason.:
Contributor's Name.....: HAL HARP
Company.....: NAVWPNSUPPCEN
                  : BLDG. 41NE
                  : CODE 70613
City.....: CRANE
State.....: IN
Country.....: USA
Zip Code.....: 47522
Phone Number...: 812-854-1034
Program Abstract.....: 7/26/84

```

THIS PROGRAM GIVES A COMPLETE EXPLANATION OF AN IMAGE/1000 DATA BASE.

EXAMPLE

TO RUN

RU,DBEXP OR DBEXP

Enter data-base name:+sc STAN:99

Enter level MOM

THE LOADER FILE CONTAINS AN ENTRY LI,\$DBMSY, THIS NAME MAY HAVE TO BE CHANGED OR OMITTED DEPENDING ON YOUR CONFIGURATION. \$DBMSY IS A LINDXED VERSION OF THE IMAGE LIBRARY: %DBMS,%LOCAL,%NO\DS

THE PROGRAM &DBEXP AND COMPANION DATA BASE ERROR PROGRAM &DBERR WAS WRITTEN BY RICK CALENTINE ,NAVWPNSUPPCEN CRANE,IN.
 Additional Documentation....: IMAGE/1000 92069 MANUALS

DEFINE CS/80 DISC TRACK MAP

```

Contribution Name.....: CSDEF
Title.....: DEFINE CS/80 DISC TRACK MAP
File Names.....: 00. RENAME FILE
                  01. 'CSDEF -SUBMISSION FILE
                  02. &CSDEF -SOURCE (FTN7X)
                  03. %CSDEF -RELOC.

Operating System.....: RTE-6
Language(s).....: FORTRAN 77
Keywords.....: 1. SYSTEM TABLES
                2. DISC

External Support Req'd...: REV. 2340
If Re-submission, Reason.: ENHANCEMENT
Contributor's Name.....: DONALD L. CLAPP
                        Company.....: ELI LILLY AND CO.
                        Street.....: 307 E. MCCARTY ST.
                        City.....: INDIANAPOLIS
                        State.....: INDIANA
                        Country.....: US
                        Zip Code.....: 46285
                        Phone Number...: 317-261-4458
    
```

```

Program Abstract.....:
THIS PROGRAM IS TO ASSIST THOSE PERSONS ADDING A CS/80 DISC TO THEIR
SYSTEM ON A SECOND CONTROLLER. THE TRACK MAP TABLE MUST BE BUILT
BY THE USER. THE STARTING BLOCK ON THE DISC MUST BE SPECIFIED
AS 2 OR 3 WORD INTEGER VALUES. NEITHER THE ASSEMBLER NOR MACRO WILL
DEFINE VALUES THIS WAY. THIS PROGRAM DOES THE ARITHMATIC AND
DISPLAYS THE RESULTS IN OCTAL.
THIS EDITION OF THE PROGRAM WILL ALSO PRODUCE A MACRO SOURCE FILE
OF THE LAYOUT THAT YOU DEFINE.
Additional Documentation.....:
    
```

```

-----
Contribution Name.....: B1D
  Title.....: B1D Whetstone Benchmark for HP 1000
  File Names.....: 00. Rename Transfer File
                  : 01. 'B1D77 Submission File
                  : 02. &B1D77
  Operating System.....: RTE-6/VM and RTE IVB
  Language(s).....: FORTRAN77, Easily modified for FTN4X
  Keywords.....: 1. Benchmark
                : 2. FORTRAN
  External Support Req'd...: None
  If Re-submission, Reason.:
Contributor's Name.....: Glen A. Mortensen
  Company.....: Intermountain Technologies Inc.
  Street.....: P. O. Box 1604
                : 1400 Benton Street
  City.....: Idaho Falls
  State.....: Idaho
  Country.....: USA
  Zip Code.....: 83403-1604
  Phone Number...: 208-523-7255
  Telex.....: None
Program Abstract.....: This is a FORTRAN77 version of the B1D Whetston
                    : Benchmark. The Whetstone Benchmark is a
                    : synthetic program that was developed by
                    : Harry J. Crunow in London in the middle
                    : 70's using data accumulated by Brian A.
                    : Whichmann. Article on this benchmark was
                    : published in the INTERFACE/1000 magazine
                    : in the December '83/January '84 issue.
                    : Output from the ITI computer is given here

```

```

BENCHMARK B1D EXEC TIME IS 2.2438 MINUTES
LOOP = 1
COMPILER = FTN7X
OP SYSTEM = RTE-6/VM
COMPUTER = 2100-MXE
SPEED = 7.43 THOUSANDS OF WHETSTONE INSTRUCTIONS/SEC
ALL DONE

```

```

Additional Documentation....: None

```

DISPLAY GASP INITIALIZATION INFORMATION

```
-----
Contribution Name.....: JBINF
Title.....: DISPLAY GASP INITIALIZATION INFORMATION
File Names.....: 00. RENAME FILE
                  01. 'JBINF -SUBMISSION FILE
                  02. &JBINF -SOURCE (FTN7X)
                  03. &JBINF -RELOC. (OLDRE)
Operating System.....: RTE-II --- RTE-6
Language(s).....: FORTRAN 77
Keywords.....: 1. HELP
                2. SPOOLING
                3. INSTRUCTION
                4.
                5.
External Support Req'd...: NONE
If Re-submission, Reason.:
Contributor's Name.....: DONALD L. CLAPP
Company.....: ELI LILLY AND CO.
Street.....: 307 E. MCCARTY ST.
City.....: INDIANAPOLIS
State.....: INDIANA
Country.....: US
Zip Code.....: 46285
Phone Number...: 317-261-4458
Program Abstract.....:
THIS PROGRAM IS TO ASSIST THOSE PERSONS WITH POOR MEMORYS THAT
CANNOT REMEMBER THE PARAMETERS THEY USED WHEN THEY INITIALIZED
THE SPOOLING SYSTEM WITH GASP. THE PROGRAM DISPLAYS THE PARAMETERS
USED IN THE SAME FORM AS WHEN ORIGINALLY ENTERED.
Additional Documentation.....:
-----
```

 COMPARE PARAMETERS IN FORTRAN SUBROUTINES

Contribution Name.....:CMPAR
 Title.....:Compare Parameters in Fortran Subroutines
 File Names.....:00. Rename Transfer File
 :01. 'CMPAR Submission File
 :02. &CMPAR Ftn7x Source
 :03. &CMSUB Ftn7x Source
 :04. &CHSUB Ftn7x Source
 :05. #CMPAR Link Command File
 Operating System.....:RTE-6/VM
 Language(s).....:Fortran 77
 Keywords.....: 1. COMPARE
 : 2. Fortran
 : 3. Debug
 : 4. Cross Reference
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....:Robert E. DeNuto, Jr.
 Company.....:GHA Lock Joint, Inc.
 Street.....:150 N. Main St.
 :PO Box 1000
 City.....:Wharton
 State.....:NJ
 Country.....:
 Zip Code.....:07885
 Phone Number...:(201) 366-2400
 Telex.....:
 Program Abstract.....:
 This submission is a utility to check the parameter passage
 between calling and called routines. It gets a data type listing
 from the Ftn7x compiler for both files, and performs a cross check.
 Discrepancies in parameter passing between "main" and "subroutine"
 have been the cause of many debugging hours spent. This program
 checks both parameter name and parameter type, and produces a list
 stating each parameter and it's data type. This is performed for
 each call in a "main" to the "subroutine".
 The program depends on the list file produced by Ftn7x to have
 the format of rev 2340.
 Additional Documentation....:
 Ftn7x must be "RP'ed" before running.

CHECK DISC MAP FOR MAC AND ICD DISCS

```

-----
Contribution Name.....: TRKCX
Title.....: CHECK DISC MAP FOR MAC AND ICD DISCS
File Names.....: 00. Rename Transfer File
                  01. 'TRKCX Submission File
                  02. &TRKCX -SOURCE (FTN7X)
                  03. %TRKCX -RELOC. (OLDRE)
                  04. &MOVEW SOURCE MACRO
                  05. %MOVEW RELOC
                  06. &BRPLC MACRO
                  07. %BRPLC RELOC
                  08. &.BRP MACRO
                  09. % .BRP RELOC

Operating System.....: RTE-II --- RTE-6
Language(s).....: FORTRAN 77
Keywords.....: 1. TRACK MAP
                2. DISC
                3. SYSTEM TABLES
                4.
                5.

External Support Req'd...: NONE
If Re-submission, Reason.: ENHANCEMENTS
Contributor's Name.....: DONALD L. CLAPP
Company.....: ELI LILLY AND CO.
Street.....: 307 E. MCCARTY ST.

City.....: INDIANAPOLIS
State.....: INDIANA
Country.....: US
Zip Code.....: 46285
Phone Number...: 317-261-4458

Program Abstract.....:
C TRKCX IS A PROGRAM THAT ACCEPTS THE TRACK MAP ENTRIES FROM A
C SYSTEM GENERATION LISTING AND THEN A SUMMARY OF THE DISK LAYOUT
C TO THE TERMINAL OR A PRINTER. IN ADDITION, THE TRACK MAP IS
C CHECKED FOR CONFLICTS SUCH AS TOO MANY CYLINDERS USED FOR THE
C DRIVE TYPE, TOO MANY HEADS OR OVERLAPPING SPARES OR DISK AREAS.
C
C THE PROGRAM ALLOWS ENTERING UP TO 64 ENTRIES (MAXIMUM FOR A SYSGEN)
C AND THEN ALLOWS CHECKING/EDITING OF THE MAP. IN ADDITION, THE
C ACTUAL SYSTEM LU'S MAY BE ADDED SO THE LISTING IS RELATIVE TO
C DISK LU'S AND NOT JUST SUBCHANNELS.
C THIS EDITION OF THE PROGRAM WILL READ A GENERATOR ANSWER FILE
C FOR THE INITIAL DEFINITIONS OF THE DISC.
Additional Documentation.....:

```

DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE

```

Contribution Name.....: APPLE
Title.....: DOWN-LOAD FILE AND RECOGNIZE XON/XOFF HANDSHAKE
File Names.....: 00. Rename Transfer
                  : 01. 'APPLE - SUBMISSION FILE
                  : 02. *APPLE - COMPILE AND LOAD TRANSFER F
                  : 03. &APPLE - SOURCE FILE
                  : 04. "APPLE - ADDITIONAL DOCUMENTAION
Operating System.....: RTE-6/VM
Language(s).....: FTN77
Keywords.....: 1. DOWN-LOADING
                : 2. MODEM
                : 3. COMMUNICATIONS
                : 4. PC
External Support Req'd...: DVW00 AND BACI CARD (12966A)
If Re-submission, Reason.:
Contributor's Name.....: GEORGE SANTEE
Company.....: INTERMOUNTAIN TECHNOLOGIES, INC.
Street.....: 1400 BENTON STREET
                : P.O. BOX 1604
City.....: IDAHO FALLS
State.....: IDAHO
Country.....: USA
Zip Code.....: 83403-1604
Phone Number...: (208) 523-7255
Telex.....:
Program Abstract.....: THE APPLE PROGRAM ALLOWS DOWN-LOADING A FILE
FROM THE HP1000 TO A PC WHOSE TERMINAL EMULATION PROGRAM USES THE XON/XOFF
HANDSHAKE. A MODEM CONNECTED TO THE HP1000 WITH A BACI CARD USING DRIVER
DVW00 IS REQUIRED.
Additional Documentation....: "APPLE
    
```

ASSEMBLY LANGUAGE SUBROUTINES

```

Contribution Name.....: ASUBS
Title.....: Assembly Language Subroutines
File Names.....: 00. Rename Transfer File.
                  : 01. 'ASUBS - Submission file.
                  : 02. &ASUBS - Source file.
                  : 03. $ASUBS - Lindxed library.
Operating System.....: RTE-6/VM
Language(s).....: MACRO
Keywords.....: 1. Subroutine
                : 2. Library
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Telex.....:
Program Abstract.....:
    
```

This package of subroutines have appeared before in these pages but since they are needed by other contributions I have submitted they are included here. Some of the routines are new and some have been revised. Look at the source listing to see what's here.

Note: you will probably have to extract the module you want, rather than trying to assemble the whole library at once.

Additional Documentation....:

BACKS

Contribution Name.....: Indexes for binder backs
 Title.....: Backs
 File Names.....: 00. Rename Transfer File
 : 01. 'BACKS Submission File
 : 02. &BACKS
 : 03. %BACKS
 : 04. #BACKS
 : 05. "BACKS
 Operating System.....: RTE-6/VM
 Language(s).....: Fortran77
 Keywords.....: 1. Text
 : 2. Label
 : 3. Graphics
 External Support Req'd...: Graphics/1000-II (DGL), Plotter HP-9872X
 If Re-submission, Reason.:
 Contributor's Name.....: JUHA KOLJONEN & KARI KESKIIVARI
 Company.....: NESTE OY , RESEARCH CENTRE
 Street.....:
 City.....: SF-06850 KULLOO
 State.....:
 Country.....: FINLAND
 Zip Code.....:
 Phone Number...: 358-15-693400
 Program Abstract.....:
 Additional Documentation....: See program listing or file "BACKS

BAKUP

Contribution Name.....: Daily FC system backup
 Title.....: BAKUP
 File Names.....: 00. Rename Transfer Fileile
 : 01. 'BAKUP Submission file
 : 02. &BAKUP Program source
 : 03. "BAKUP Documentation file
 Operating System.....: RTE-6VM
 Language(s).....: FTN7X
 Keywords.....: 1. BACKUP
 : 2. ARCHIVE
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: John A. Price
 Company.....: Hershey Foods Corporation
 Technical Center
 Street.....: 1025 Reese Ave
 PO Box 805
 City.....: Hershey
 State.....: PA
 Country.....: USA
 Zip Code.....: 17033-0805
 Phone Number...: (717) 534-5239
 Program Abstract.....: This is a time-scheduled program which
 automatically backs up selected LUs each working day.
 Additional Documentation....: See file "BAKUP

ROGUE GAME FILES FROM VAX

```

-----
Contribution Name.....: ROGUE
Title.....: ROGUE game files from VAX
File Names.....: Rogue, in Vax Fortran with braindamaged files:
                  00. Rename Transfer File
                  01. 'ROGUE Submission file
                  02. ATACK 11 size
                  03. COMMON 20
                  04. DAMAGE 5
                  05. DESC 12
                  06. DIG3 21
                  07. DRAWCO 23
                  08. DRAWMF 6
                  09. DRAWMP 8
                  10. ERROR 1
                  11. FID 20
                  12. GETMAP 22
                  13. IMP6 22
                  14. INIT 33
                  15. INVEN 8
                  16. LIB 33
                  17. LOCATE 4
                  18. MAIN 1
                  19. MONS 27
                  20. MOVE 11
                  21. OLDDRAW 8
                  22. OLDDSCR 12
                  23. PICKUP 14
                  24. POTION 9
                  25. PUTMON 11
                  26. RIP 7
                  27. ROGUE 4 <-- The README file
                  28. ROGUEC 1
                  29. ROGUEF 55
                  30. SAVE 15
                  31. SCR 12
                  32. SCROLL 26
                  33. SLEEP 1
                  34. STICKS 27
                  35. T 11
                  36. TALLY 3
                  37. TEMP 12
                  38. TERMIO 35
                  39. TTYOUT 1
                  40. WER 1
Operating System.....: VAX
Language(s).....: VAX Fortran
Keywords.....: 1. Games
                2. VAX
External Support Req'd...: You will need to rework these routines
If Re-submission, Reason.:
Contributor's Name.....: JACK MCALISTER
Company.....: TDC
City.....: 621 Six Flags Drive
State.....: Arlington
Country.....: Texas
Zip Code.....: USA
Phone Number...: 76011
                        817-861-7447
Program Abstract.....: ROGUE game captured from VAX
Additional Documentation....: See file ROGUE.
-----

```

```

-----
Contribution name.....: CLEAN
Title.....: FMGR cartridge clean up program.
File Names.....: 00. Rename Transfer File.
                  01. 'CLEAN - Submission file.
                  02. &CLEAN - Source file.
                  03. #CLEAN - Link command file.
Operating System.....: RTE-6/VM, RTE-A
Language(s).....: MACRO
Keywords.....: 1. Extents
                2. Files
                3. Clean Up
External Support Req'd...: $FMP6 library.
If Re-submission, Reason.: Made compatible with CI file system.
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Program Abstract.....:

```

This program will perform the following disc clean-up operations on FMGR cartridges from the options selected in the run string:

1. Purge files with zero security codes.
2. Purge compiler list files. (Starts with single quote)
3. Remove extents from type 3 and up files.
4. Reclaim unused disc space in type 3 & 4 files.
5. Change the file size of type 3 and up for speed.

All mounted cartridges will be processed unless a negative logical unit number is given in the run string.

Additional Documentation....:

Example run string:

```
CI> Clean,UN,PU,PL,RE,-25
```

The 'PU' option will ask if you want to purge the file name displayed. Answer 'Y' or 'N' or /E to terminate the option for that cartridge. The 'AP' will purge all files with zero security codes without asking. 'PU' and 'AP' are mutually exclusive.

Compiler list files are purged with the 'PL' option if a corresponding source file is found (i.e. starting with an &). If files beginning with a single quote are found without a matching source file, an informative message is printed out so you can find those list files created by mistake from errors in the run string when compiling.

The 'RE' option allows you to reclaim unused disc space in type 3 & 4 files by reading the file and releasing used space at the end. The final number of blocks in the file is rounded up to be divisible by 4 for more efficient access using larger DCB's. Processing is very fast taking less than a second to handle a 100 block file.

The 'UN' option removes extents from files by copying them into a file that is the original size times the number of extents. Unused disc is released as in the 'RE' option.

The 'EX' option will round a file size up like the unextend option until it is divisible by 4. If the file size is divisible by 4 already nothing is done to the file. 'EX' and 'UN' are mutually exclusive.

The program accepts both lower and upper case letters. The break command can be given at any time and will stop processing the file it was currently working on. Also options can be disabled for a given cartridge and re-enabled for the next cartridge.

FMGR CARTRIDGE CLEAN UP PROGRAM (cont)

The program is very efficient making use of multiple track reads of both the directory tracks and data tracks. FMGR DCB's are about 100 blocks in size. Extensive use of system MACROS are used making it very difficult to try to use the program with RTE-4B. The new file system doesn't need this kind of utility.

Error reporting and file descriptions now use CI format for consistency. The FSTAT call may need to be changed for RTE-A.

CI PROGRAM PREPROCESSORS

```

Contribution Name.....: CIPRE
Title.....: CI program preprocessors.
File Names.....: 00. Rename Transfer File.
                  01. 'CIPRE - Submission file.
                  02. &ASMB - Assembler preprocessor.
                  03. #ASMB - Link command file.
                  04. &FTN4X - FORTRAN 4x preprocessor.
                  05. #FTN4X - Link command file.
                  06. &MICRO - Microprogramming preprocessor.
                  07. #MICRO - Link command file.
                  08. &MXREF - Micro cross ref. preprocessor.
                  09. #MXREF - Link command file.
Operating System.....: RTE-6/VM, RTE-A
Language(s).....: FTN7X
Keywords.....: 1. Pre-processor
                2. CI
                3. Compiler
External Support Req'd...: CI file system.
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Telex.....:
Program Abstract.....:
    
```

This package of preprocessors allows older HP products to use the new CI file system. Some things don't work the same in FTN4X and FTN7X so I wanted FTN4X to use the new file system. Bugs in MACRO have also forced me to go back and use ASMB at times. The method used is simple and will work for many programs. If the source is in a CI file, then it is copied to a FMGR scratch file. FMGR list and object files are set up as needed. Then the real compiler is called using these scratch files. If all is well, then the list and object files are copied back to the CI files system and the temporary scratch files are purged. Error checking is also done passing the status back to the calling program. The process is fast using FmpCopy usually taking only a few seconds of extra processing. WARNING: Due to a bug in C.83 FmpCopy, do not size up the programs to more than 30 pages.

Additional Documentation....:

File naming conventions:

Preprocessor	Compiler name
-----	-----
FTN4X.RUN::PROGRAMS	FTN66.RUN::PROGRAMS
ASMB.RUN::PROGRAMS	ASMB4.RUN::PROGRAMS
MICRO.RUN::PROGRAMS	MICXE.RUN::PROGRAMS
MXREF.RUN::PROGRAMS	MICXF.RUN::PROGRAMS

HP/C COMPILER RUNTIME AND I/O LIBRARIES

 Contribution Name.....: HP/C Libraries
 Title.....: HP/C Compiler Runtime and I/O Libraries
 File Names.....: 00. Rename Transfer File
 : 01. 'CLIB Submission file
 : 02. \$NCLIB New file system library
 : 03. \$OCLIB Old file system library
 Operating System.....: RTE-IVB, RTE-XL, RTE-6/VM, RTE-A.1, RTE-A
 Language(s).....: HP/C, MACRO
 Keywords.....: 1. Library
 : 2. C
 : 3. Compiler
 External Support Required:
 If Re-submission, Reason.:
 Contributor's Name.....: David A. Boskey
 Company.....: Corporate Computer Systems, Inc.
 Street.....: 33 West Main Street
 City.....: Holmdel
 State.....: New Jersey
 Country.....: USA
 Zip Code.....: 07733
 Phone Number...: (201) 946-3800
 Telex.....: 642672
 Program Abstract.....:
 Additional Documentation....: See the HP/C Reference Manual from CCS

ASCII TO NUMERIC CONVERSION

 Contribution Name.....: CONV
 Title.....: ASCII to numeric conversion
 File Names.....: 00. Rename Transfer File
 : 01. 'CONV Submission file
 : 02. &CONV Program source
 Operating System.....: RTE-6VM
 Language(s).....: FTN4X, FTN7X
 Keywords.....: 1. ASCII
 : 2. CONVERSION
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: John A. Price
 Company.....: Hershey Foods Corporation
 Technical Center
 Street.....: 1025 Reese Ave
 PO Box 805
 City.....: Hershey
 State.....: PA
 Country.....: USA
 Zip Code.....: 17033-0805
 Phone Number...: (717) 534-5239
 Program Abstract.....: A library of FTN4X and FTN7X conversion
 routines to convert ASCII to numeric.
 Additional Documentation....: Routines included:
 KVTAS: Convert ASCII to INTEGER (FTN4X)
 CVTAS: Convert ASCII to REAL (FTN4X)
 LVTAS: Convert ASCII to INTEGER (FTN7X)
 SVTAS: Convert ASCII to REAL (FTN7X)

RTE-A SYSTEM ANALYZER

```

-----
Contribution Name.....: CMMA
Title.....: RTE-A System Analyzer
File Names.....: 00. Rename Transfer File
                  01. 'CMMA Submission file
                  02. "CMMA Execution notes
                  03. #CMMA LINK command file
                  04. &ADDSK Add to command stack source
                  05. %ADDSK Add to command stack relocatable
                  06. &BYTES Byte manipulation source
                  07. %BYTES Byte manipulation relocatable
                  08. &CKMOR Check for more output source
                  09. %CKMOR Check for more output relocatable
                  10. &CMMA CMMA main program source
                  11. %CMMA CMMA main program relocatable
                  12. &COMMA Command reader source
                  13. %COMMA Command reader relocatable
                  14. &CVT Convert ascii to binary source
                  15. %CVT Convert ascii to binary relocatable
                  16. &DLPK List disc sectors source
                  17. %DLPK List disc sectors relocatable
                  18. &DM Modify disc location source
                  19. %DM Modify disc location relocatable
                  20. &DP Display parameters soure
                  21. %DP Display parameters soure
                  22. &DRPK List LU table entries source
                  23. %DRPK List LU table entries relocatable
                  24. &DS Search disc track source
                  25. %DS Search disc track relocatable
                  26. &FI Find value - user map source
                  27. %FI Find value - user map relocatable
                  28. &IDPK List ID segments source
                  29. %IDPK List ID segments relocatable
                  30. &INPK List interrupt table source
                  31. %INPK List interrupt table relocatable
                  32. &LI List a system entry point source
                  33. %LI List a system entry point relocatabl
                  34. &LISTP Output in packed format source
                  35. %LISTP Output in packed format relocatable
                  36. &LMPK List memory - user map source
                  37. %LMPK List memory - user map relocatable
                  38. &LUPK Display lu tables source
                  39. %LUPK Display lu tables relocatable
                  40. &OUT Write the output records source
                  41. %OUT Write the output records relocatable
                  42. &PM Modify memory - user map source
                  43. %PM Modify memory - user map relocatable
                  44. &RDREC Read a command source
                  45. %RDREC Read a command relocatable
                  46. &XF Find a value - system map source
                  47. %XF Find a value - system map relocatabl
                  48. &XLPK List memory - system map source
                  49. %XLPK List memory - system map relocatable
                  50. &XP Modify memory - system map source
                  51. %XP Modify memory - system map relocatable
Operating System.....: RTE-A
Language(s).....: HP/C, FTN7X, MACRO
Keywords.....: 1. System
                2. System tables
                3. Analyzer
External Support Required:
If Re-submission, Reason.:
Contributor's Name.....: David A. Boskey
Company.....: Corporate Computer Systems, Inc.
Street.....: 33 West Main Street
City.....: Holmdel
State.....: New Jersey
Country.....: USA
Zip Code.....: 07733
Phone Number...: (201) 946-3800

```

(cont)

Program Abstract.....:

CMMMA is a program which facilitates the analysis of problems in an RTE-A system. CMMMA is a stripped-down version of previous versions of CMMx. This version does not have the facility to run in a different computer; i.e. you cannot examine a remote RTE-A from another node in a DS/1000 network.

CMMMA provides the following commands:

DL lu track sector #sectors	list disc sectors
DM lu track sector word value [flag]	modify a word on the disc
DP value [operator value]	display parameters
DR lu [lu]	display lu table
DS lu track wd1 [wd2] [wd3] [wd4] [wd5]	search disc tracks
EC	echo tr file commands
EP	issue top of form to output
EX	exit from CMMMA
FI value start-address #words	find value in the user map
ID number/name	display id segments
IN start_sect-code [end-select-code]	display interrupt table entries
LE	list all entry points
LI entry-point [#words]	list an entry point
LL file/lu	change output file/lu
LM address #words	list memory in the user map
LU lu	display dvt and ift
PM address value [flag]	patch a word in the user map
TR file	get commands from a file
XF value start-address #words	find value in the system map
XL address #words	list memory in the system map
XP address value [flag]	patch a word in the system map

Additional Documentation.....:

Contribution Name.....: QSPOL
 Title.....: EASY SPOOLER INTERFACE
 File Names.....: 00. Rename Transfer File
 : 01. 'QSPOL Submission file'
 : 02. &QSPOL
 Operating System.....: RTE-IVB or RTE-6/VM
 Language(s).....: FTN4X
 Keywords.....: 1. Spooling
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: R. Niekamp
 Company.....: Hewlett Packard Company
 Street.....: 1001 E. 101st Terrace
 City.....: Kansas City
 State.....: Missouri
 Country.....: USA
 Zip Code.....: 64131
 Phone Number...: (816) 941-0411
 Program Abstract.....: Easy interface to the spooler package.
 Contains two (2) options:
 1) Setup programmatic spool files.
 2) Transaction logging, weekly cycle,
 retains file till following week then
 reuses.
 Additional Documentation.....:

 DIRECT, DMA, PRIVILEGED MODE I/O EXAMPLES

Contribution Name.....:CPIC
 Title.....:DIRECT, DMA, PRIVILEGED MODE I/O EXAMPLES
 File Names.....: 00. Rename Transfer File
 : 01. 'CPIC Submission File
 : 02. &CPIC
 : 03. &ASIC
 : 04. &CASIC
 : 05. &HPIB
 : 06. &CHPIB
 : 07. &PICCW
 : 08. &LOOKH
 : 09. &HLOOK
 : 10. &LOOK
 : 11. &LOOKM
 : 12. &CNO
 : 13. &PICIO
 : 14. &IBCOM
 Operating System.....:RTE-A.1
 Language(s).....:FORTRAN77, MACRO/1000
 Keywords.....:1. I/O
 :2. DMA
 :3. privileged
 External Support Req'd...:NONE
 If Re-submission, Reason.:
 Contributor's Name.....: Avery Davis
 Company.....: GEORGIA INSTITUTE OF TECHNOLOGY
 Street.....: Electromagnetics Laboratory
 : Millimeter Wave Technology Division
 City.....: Atlanta
 State.....: GA
 Country.....: USA
 Zip Code.....: 30332
 Phone Number...: (404)894-3505
 Telex.....:
 Program Abstract.....: These programs are examples of direct,
 privileged mode DMA I/O on an A-series
 HP1000. They have only been tested on an
 A700 under RTE-A.1. Some of the programs
 are FORTRAN which call privileged assembly
 language subroutines, and other are
 accessory utilities.
 Additional Documentation....: Comment lines at the beginning of each
 source code file describe the use and loading
 of that file. A tutorial may be found in the
 paper, "Direct privileged Mode DMA I/O on the
 A700 Under RTE A.1", Avery Davis, INTEREX
 Technical Computer Conference Proceedings,
 1984 HP 1000 International Conference,
 San Jose, CA, September 9-13, 1984,
 pp14-1 to 14-8.

```

-----
Contribution Name.....: CPUSE
Title.....: 24 HOUR CPU USAGE WITH PRINTOUT
File Names.....: 00. Rename Transfer File
                  : 01. 'CPUSE -SUBMISSION FILE
                  : 02. &CPUSE -SOURCE CODE FOR CPUSE
                  : 03. %CPUSE -RELOCATABLE FOR CPUSE
                  : 04. %WAIT -RELOCATABLE FOR WAIT
Operating System.....: RTE 6VM
Language(s).....: FTN77
Keywords.....: 1. Analyzer
                  : 2. Accounting
                  : 3. Reports
                  : 4. Performance
External Support Req'd...: NONE
If Re-submission, Reason.: N/A
Contributor's Name.....: DAN FOGER/JOE BOSWELL
Company.....: FAA
Street.....: 5400 DAVIS HYWY
City.....: ANCHORAGE
State.....: ALASKA
Country.....:
Zip Code.....: 99506
Phone Number...: 907-269-1189
Program Abstract.....:

```

A program to satisfy managers who aren't impressed by flashing lights and have learned the buzz words "HOWS YOUR CPU USAGE?". Data is gathered from the S register via the CU,ON command and creates a reasonable piece of paper to hand them 24 hours later. Samples at .5 second intervals are stored and a file created with output to specified printer lu with some percentages like the 'CPU WAS BUSY 100% OF THE TIME FOR XX% OF THE HOUR'. %WAIT is included in case you dont have the old ISALB around.

```

-----
Contribution Name.....: DATA
Title.....: EQUIPMENT TABLE PRINT OUT
File Names.....: 00. Rename Transfer File
                  : 01. 'DATA -SUBMISSION FILE
                  : 02. &DATA -SOURCE CODE FOR CPUSE
                  : 03. %DATA -RELOCATABLE FOR CPUSE
                  : 04. %ASINT -RELOCATABLE FOR ASCII
Operating System.....: RTE 6VM
Language(s).....: FTN77 ASINT IS IN ASSEMBLER
Keywords.....: 1. System tables
                  : 2. Eqt
External Support Req'd...: NONE
If Re-submission, Reason.: N/A
Contributor's Name.....: DAN FOGER/JOE BOSWELL
Company.....: FAA
Street.....: 5400 DAVIS HYWY
City.....: ANCHORAGE
State.....: ALASKA
Country.....:
Zip Code.....: 99506
Phone Number...: 907-269-1189
Program Abstract.....:

```

A program to SEE what is in the equipment table. Seems you need to see all of the words in table if your having trouble with an lu. To run the program just type in DATA,equipment number. Other option is to direct the output listing with ipram 2; DATA,equipment number,output lu number %ASINT is included to load the program.


```

-----
Contribution Name.....: DBMOX
Title.....: Data base modify program
File Names.....: 00. Rename Transfer File
                  : 01. 'DBMOX submission file
                  : 02. &DBMOX source file
                  : 03. #DBMOX loader file
Operating System.....: RTE6VM,RTE4B
Keywords.....: 1. Data base
                : 2. IMAGE
                : 3. Modify
Language(s).....: FTN4X
External Support Req'd...: 92069 IMAGE LIBRARY
If Re-submission, Reason.:
Contributor's Name.....: HAL HARP
Company.....: NAVWPNSUPPCEN
Street.....: BLDG. 41NE CODE 70613
City.....: CRANE
State.....: IN.
Country.....: USA
Zip Code.....: 47522
Phone Number...: 812-854-1034
Program Abstract.....: JUNE 1, 1981

```



THIS PROGRAM IS USED TO MODIFY A 92069 DATA BASE. IT WILL ADD ,DELETE AND MODIFY A SINGLE RECORD INCLUDING KEY ITEMS.

THE LOADR FILE CONTAINS A REFERENCE TO LI,\$DBMSY, THIS NAME MAY HAVE TO BE CHANGED OR OMITTED DEPENDING ON THE PARTICULAR INSTALLATION OF IMAGE/1000 AT YOUR SITE.

TO OPERATE PROPERLY THIS PROGRAM EXPECTS A 26XX TYPE TERMINAL.

EXAMPLE:

TO RUN:
RU,DBMOX

```

Enter data-base name:+sc STAN:99
Enter level MOM
Enter data-set TRANS

```

A MENU WILL THEN BE PRINTED ON THE SCREEN WITH THE NAMES OF THE DATA ITEMS AND THE LENGTH OF THE ITEM WILL BE IN PARENTHESES.

THIS PROGRAM USES A DBINF CALL TO GET THE DATA SET INFORMATION THEN CREATES A SCREEN AND ALLOWS THE USER TO FILL IN THE SCREEN WITH DATA. THE USER THEN SAVES THE INFORMATION ON THE SCREEN WITH A /S.

DBMOX WAS MODIFIED FROM A PROGRAM WRITTEN BY DAN LASKOWSKI, HP INDY.

Additional Documentation....: IMAGE/1000 92069 MANUALS

LINEPRINTER DRIVER AND SUPPORT SOFTWARE

```

-----
Contribution Name.....: DVP12
Title.....: Lineprinter driver and support software.
File Names.....: 00. Rename Transfer File.
                  01. 'DVP12 - Submission file.
                  02. &DVP12 - Driver source.
                  03. &UPIT - Up downed Lu's.
                  04. &CC - Space page up.
                  05. *UPIT - LOADR command file.
                  06. #CC - Link command file.
Operating System.....: RTE-6/VM only.
Language(s).....: MACRO
Keywords.....: 1. Driver
                2. Printer
External Support Req'd...: Spooling system must be system generation.
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Telex.....:
Program Abstract.....:

```

This line printer driver is a modification of DVC12 which supports HP 2767A, 26xx and Dataproducts line printers. No vertical forms control is needed because the driver does it all. Lower case letters can be shifted to upper case automatically by specifying the right subchannel. The paper width can be set to 80 or 132 columns. Non printing characters can be displayed as an @ sign or ignored. If the printer is at the top of form, no futher form feeds are allowed until something is printed unless a control 15b request is given. This saves a lot of paper.

The support programs make life a little easier. UPIT run every 3 seconds and checks for any printers that are down. If one is found, it's hardware status is checked to see if it is ready again. When ready, GASP is scheduled to restart the spool file and up the printer. If the printer is not spooled, then it is just upped. The CC program spaces the the paper on a Dataproducts B300/600 for tearoff.

Additional Documentation.....:

EQUIPMENT TABLE ACCESS

```

-----
Contribution Name.....: EQTS
Title.....: EQUIPMENT TABLE ACCESS
File Names.....: 00. Rename Transfer File
                  01. 'EQTS -SUBMISSION FILE
                  02. &EQTS -SOURCE CODE
                  03. *EQTS -RELOCATABLE

Operating System.....: RTE 6 VM
Language(s).....: FORTRAN 77
Keywords.....: 1. SYSTEM TABLES
                2. EQT

External Support Req'd...: NONE
If Re-submission, Reason.: N/A
Contributor's Name.....: JOE BOSWELL
Company.....: FAA
Street.....: 5400 DAVIS HYWY
City.....: ANCHORAGE
State.....: ALASKA
Country.....:
Zip Code.....: 99506
Phone Number...: 907-269-1157
Telex.....:
Program Abstract.....:

```

Have you got one of those mux handlers that use the exec 12 call and you would like to use clones of only one program on each port, but each has a different baud rate so you dont know how long to delay before you terminate the buffer? Or are you using some exotic driver that you would love to get to the eqt. table if only you knew the starting address?? EQTS will get you started if you have RTE6v/m.

Additional Documentation.....:

ERASE A FMGR CARTRIDGE

```

-----
Contribution Name.....: ERASE
Title.....: Erase a FMGR Cartridge.
File Names.....: 00. Rename Transfer File.
                  01. 'ERASE - Submission file.
                  02. &ERASE - FORTRAN Source.
                  03. #ERASE - Link command file.

Operating System.....: RTE-6/VM
Language(s).....: FTN7X
Keywords.....: 1. PURGE
                2. FILES
                3. INITIALIZE

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Telex.....:
Program Abstract.....:

```

This program provides a way of clearing all the files from a FMGR disc cartridge leaving nothing but the label intact. Zeros are written every everywhere on the Lu except the label. This provides both security and a quick way to purge all files on a cartridge. The cartridge must be mounted and no files can be open. The Lu is locked to prevent access by others while it is being cleared. Only the owner who mounted the disc can erase it. The program display label information and asks if you really want to erase this cartridge. Once it starts, there is no way to get any files back.

```

-----
Contribution Name.....: FIXFMGR
Title.....: Fix Odd Byte Count FMGR Records
File Names.....: 00. Rename Transfer File
                  01. 'FIXFM Submission file
                  02. &FIXFM Record length word fixer - source
                  03. &FIXFM Record length word fixer - relocatabe
Operating System.....: RTE-6/VM, RTE-A
Language(s).....: HP/C
Keywords.....: 1. TRANSPORTABLE
                2. COMPATIBILITY
External Support Required:
If Re-submission, Reason.:
Contributor's Name.....: David A. Boskey
Company.....: Corporate Computer Systems, Inc.
Street.....: 33 West Main Street
City.....: Holmdel
State.....: New Jersey
Country.....: USA
Zip Code.....: 07733
Phone Number...: (201) 946-3800
Telex.....: 642672
Program Abstract.....:

```

There is an incompatibility between RTE systems that have the new file system available and those that do not. This can cause problems when transporting files from either an RTE-6/VM or RTE-A system to a system that does not have the new file system available.

Since the new file system allows for the writing of records with an odd number of bytes, the record length word for type 3 format files has changed for those odd length records. The record length word in non-new file system systems is always a positive word length. In the new file system, the record length word is negative for odd length records. This is interpreted by READF as an end of file, so the first odd length record terminates the file. For example, a record with 5 bytes in the new file system would have a length word of 0100002 octal while in the old file system this would be a record with a length of 3 words.

To solve this problem, a program has been written which is available on any system with the new file system available which will modify these incompatible record length words. This program should be run on the files that will be transported to an incompatible system just prior to storing them onto tape. The program is run by using the command:

```
fixfmgr,<filedescriptor>
```

This program should only be run against type 3 format files. These include type 3, 4, and any user-defined file types > 7 with a type 3 format.

Additional Documentation.....:

```

-----
Contribution Name.....: FMPLB
Title.....: FMGR calls for CI files.
File Names.....: 00. Rename Transfer File.
                  : 01. 'FMPLB - Submission file.
                  : 02. &FMPLB - Source files.
                  : 03. $FMPLB - Lindxed library.
                  : 04. )FMPLB - Merge file.
                  : 05. %CRETS - Create scratch from %BMMPG3.
Operating System.....: RTE-6/VM, RTE-A
Language(s).....: MACRO
Keywords.....: 1. Conversion
                  : 2. Library
                  : 3. Emulator
                  : 4. Files
External Support Req'd...: CI file system.
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Telex.....:
Program Abstract.....:

```

This set of library routines allows programs using FMGR file calls to use the new CI file system without modification. For example a call to OPEN reformats the data and calls FmpOpen. All files exist on the new CI file system giving the user most of the advantages that come with the new system. There are limitations of course. File names are still limited to 6 characters and the special characters used by CI are not allowed. The security code is ignored and the CRN must be 1 or 2 ascii characters. Numbers are not allowed for CRN's. There is also a price to pay. It takes about 1 to 1.5k more words of program space. The package has been tested with a number of HP software packages. For example, BASIC/1000D can use the new system by setting the desired working directory before running BASIC and just specifying file names up to 6 characters. Unfortunately the new file system doesn't handle FMGR type zero files properly so they cannot be used by BASIC. But for programs for which you have no source, this package allows you to start getting rid of your old FMGR cartridges.

Additional Documentation....:

Just add LIB,\$FMPLB to your LINK command files to use this package. %CRETS was extracted from the C.83 RTE-6/VM library so it would call the ECRET subroutine in this package instead of the one in the system. Undocumented calls are also supported in this package.

INTERACTIVE FONT GENERATOR

```
-----
Contribution Name.....: GFont
Title.....: Interactive Font Generator
File Names.....: 00. Rename Transfer File
                  01. 'GFont Submission file
                  02. &GFont Source file
                  03. %GFont Relocatable
                  04. #GFont Loadr/Link command file
                  05. "GFont Info file
Operating System.....: RTE-6/VM, IVB
Language(s).....: FTN7X
Keywords.....: 1. Font
                2. Text
                3. Interactive
External Support Req'd...: 92841 DGL Library
If Re-submission, Reason.:
Contributor's Name.....: Juan A. Codagnone
Company.....: ATEC S.A.
Street.....: Cerrito 866  Piso 7
City.....: Buenos Aires
State.....:
Country.....: ARGENTINA
Zip Code.....: 1336
Phone Number...: 01 45-4001
Telex.....: 21-466 ATEC AR
-----
```

Program Abstract.....:
GFont is a program that will allow you to generate and maintain your own, customized Font Files. Using simple, two-letter commands you can design the characters or symbols that you wish, or draw them on a graphics device.

Additional Documentation....: See file "GFont"

USER HELP PROGRAM

```

Contribution Name.....: HOW
Title.....: User help program
File Names.....: 00. Rename Transfer File
                  : 01. 'HOW Submission File
                  : 02. &HOW ftn7x source
                  : 03. %HOW ftn7x relocatable
                  : 04. ?HELP a sample help file
                  : 05. $HELP indexed version of ?HELP
Operating System.....: RTE 6-VM (only!)
Language(s).....: FORTRAN-77
Keywords.....: 1.HELP
                  : 2.INSTRUCTION
                  : 3.MESSAGE

```

```

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Joel McClatchy & Paul Schumann
Company.....: E-Systems, Inc.
Street.....: P. O. Box 1056 CBN 101
City.....: Greenville
State.....: Texas
Country.....: USA
Zip Code.....: 75401
Phone Number...: 214 457-5363
Telex.....:

```

Program Abstract.....: This submission is a type of on-line help which has proven very useful in our environment (lots of unsophisticated users). The command "HOW,XXXX" will cause the information available on "XXXX" to be displayed. If the user enters just "HOW", the program will interact with the user giving first top-level general help, then more specific help on sub-topics, sub-sub-topics, and so on, until the user gets whatever was needed. NOTE -- ?HELP and \$HELP have been provided as examples only; the system manager should customize these files to his or her system needs.

Loading: use LINK,%HOW -or- LOADR,%HOW

Help-file preparation: The help file used by how must be named \$HELP. It is in "standard" help-file format as shown in the example ?HELP. To index it, use GENIX,?HELP,1,\$HELP. Of course, \$HELP must reside on a generally-accessible (system-mounted) cartridge.

Help-file keywords: may be one to 24 characters in one or more words (separated by a SINGLE space). Keywords are separated from each other on a given line by two or more spaces.

Useful routines:

```

READ LINE reads the line the cursor is currently on
GET_KEY returns the full keyword the cursor was on, or if the cursor
was in the inter-keyword space, it returns the keyword to the
right of the cursor, or if the cursor was past the last one
on the line, it returns the last keyword.
GET_CURSOR returns the row and column of the cursor without moving it.

```

ARITHMETIC CALCULATOR FOR DATA IN AN ANNOTATED FILE

```

-----
Contribution Name.....: JCalc
Title.....: Arithmetic calculator for data in an annotated file
File Names.....: 00. Rename Transfer File
                  01. 'jcalc Submission File
                  02. &jcalc Source
                  03. [jcalc Include file
                  04. %jcalc Reloc
                  05. #jcalc Load file
                  06. "jcalc Help file
Operating System.....: RTE-6, RTE-A
Language(s).....: Ftn/x
Keywords.....: 1. Calculator
External Support Req'd...: Hierarchical file system
If Re-submission, Reason.:
Contributor's Name.....: John D. Johnson
Company.....: JDJ Wordware
Street.....: P.O. Box 345
                  :
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95015
Phone Number...: (415)965-3245
Telex.....:
-----

```

```

Program Abstract.....:
JCalc does arithmetic on numbers and variables in
an annotated file. An at sign('@') is used to flag
the start of a command. It is followed by a
variable name which FileCalc puts into it's
symbol table. Next comes one of 3 command characters.
An equal sign('=') followed by and expression
terminated by a semicolon(';') assigns a value
to the variable. Expressions may use plus('+'),
minus('-'), times('*') and divide('/') as
operators and parenthesis. Normal operator precedence
applies.
A plus sign('+') followed by a number adds the
number to the current value of the variable.
A number sign('#') followed by format skeleton number
causes FileCalc to replace the format skeleton with
the current value of the variable. Example:

```

```

@x = 3;
@y = 4;
@z = x*x + y*y;
@z# 25.000
@z+ 5
@z# 30

```

Additional Documentation....: From file "JCalc

JCalc is a data-reduction program that reads variables, expressions, and numbers from a file, evaluates the expressions and variables, and writes the results back into the file according to your format skeletons. Format skeletons are data templates (similar in concept to the PRINT USING statement found in some versions of BASIC). They are designed to facilitate running JCalc on the file more than once, as when getting intermediate results from a data-gathering program.

Usage: JCalc, fileName

Statements:

- @ Start a command
- # Print a variable's value
- + Add a number to a variable
- = Assign an expression's value to a variable

(cont)

Expressions, in order of precedence
 () Alter precedence
 / Divide
 * Multiply
 + Add
 - Subtract
 ; Terminate an expression

JCalc does arithmetic on numbers and variables in an annotated file.
 Commands in the file have the form:

@ variableName operationType operand

An at-sign (@) marks the beginning of a command.

variableName is a variable that JCalc remembers; new variables are created when they are first mentioned. Variable names start with a letter and can have numbers, underscores, and periods in them. Names can be of any length.

operationType is one of:

- Assign the value of an expression to the variable.
 Expressions may use / * + - () and are terminated with ;
- + Add a number to a variable; add a negative number to subtract
 ("@ var + 3" is shorthand for "@ var = var + 3;").
- # Print the current value of the variable using a format skeleton.
 The skeleton is overwritten with the current value of the variable. Format skeletons specify where to output the number on the line, and tell how many significant decimal digits to output.

Format skeletons use the characters:

- . Decimal point -- print the number around this.
- digit Overwrite this number.
- blank Print the value here.
- * Digit placeholder; numbers are right-justified in this field.

Example:

Given a file containing:

```
@x = 3;
@y = 4;
@z = x*x + y*y;
@z# .***
@z + 5
@z# *
```

JCalc will change the file to:

```
@x = 3;
@y = 4;
@z = x*x + y*y;
@z# 25.000
@z + 5
@z# 30
```

Hints:

JCalc ignores blanks except as a terminator for variable names. Thus, the line "@z + 5" could have been written "@ z + 5" or "@z+5".

Notice above that addition does not need a terminator. If there is no decimal point in the output skeleton, use a * to place the number in a specific spot.

When writing a file out, JCalc preserves the location of the decimal point in the line. It also preserves the number of digits after the decimal point.

If a value will not fit in its skeleton output field, JCalc outputs an equivalent format skeleton using decimal points and/or stars instead of the value. No error messages are produced.

When JCalc terminates, it prints the final value of all variables encountered in the file on your terminal. Variables are printed in the order in which they were defined.

(cont)

ARITHMETIC CALCULATOR FOR DATA IN AN ANNOTATED FILE (cont)

Another JCalc example:

This file was produced be merging the output files from multiple runs of a simulator and using EDIT/1000 to delete the extra text. JCalc is now used compute the number of cycle per execution and the total number of expansions. The JCalc annotations will be removed for the final report.

cache size	expansions	executions	cycles total	cycles per execution
16	@n+ 14285	@e= 78088;	@c= 366989;	@r=c/e;@r# **
32	@n+ 13511	@e= 78088;	@c= 353003;	@r=c/e;@r# **
64	@n+ 11787	@e= 78088;	@c= 323277;	@r=c/e;@r# **
128	@n+ 3666	@e= 78088;	@c= 192065;	@r=c/e;@r# **
256	@n+ 3666	@e= 78088;	@c= 192065;	@r=c/e;@r# **
512	@n+ 3464	@e= 78088;	@c= 188608;	@r=c/e;@r# **
1024	@n+ 3129	@e= 78088;	@c= 182998;	@r=c/e;@r# **
2048	@n+ 957	@e= 78088;	@c= 144308;	@r=c/e;@r# **
4096	@n+ 957	@e= 78088;	@c= 144308;	@r=c/e;@r# **

Total
Expansions=@n# *

Running JCalc produces:

This file was produced be merging the output files from multiple runs of a simulator and using EDIT/1000 to delete the extra text. JCalc is now used compute the number of cycle per execution and the total number of expansions. The JCalc annotations will be removed for the final report.

cache size	expansions	executions	cycles total	cycles per execution
16	@n+ 14285	@e= 78088;	@c= 366989;	@r=c/e;@r# 4.70
32	@n+ 13511	@e= 78088;	@c= 353003;	@r=c/e;@r# 4.52
64	@n+ 11787	@e= 78088;	@c= 323277;	@r=c/e;@r# 4.14
128	@n+ 3666	@e= 78088;	@c= 192065;	@r=c/e;@r# 2.46
256	@n+ 3666	@e= 78088;	@c= 192065;	@r=c/e;@r# 2.46
512	@n+ 3464	@e= 78088;	@c= 188608;	@r=c/e;@r# 2.42
1024	@n+ 3129	@e= 78088;	@c= 182998;	@r=c/e;@r# 2.34
2048	@n+ 957	@e= 78088;	@c= 144308;	@r=c/e;@r# 1.85
4096	@n+ 957	@e= 78088;	@c= 144308;	@r=c/e;@r# 1.85

Total
Expansions=@n# 55422

```

-----
Contribution Name.....: KEEP
Title.....: Program RP'er and ID-Segment Twiddler
File Names.....: 00. Rename Transfer File
                  : 01. 'KEEP Submission file
                  : 02. &KEEP Ftn4x source
                  : 03. %KEEP New-style relocatable
Operating System.....: RTE-6, A (IVB and others, probably)
Language(s).....: Ftn4x
Keywords.....: 1. ID Segments
External Support Req'd...: None.
If Re-submission, Reason.:
Contributor's Name.....: Don Pottenger
Company.....: Hewlett-Packard Co.
Street.....: 11000 Wolfe Road
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Telex.....:
Program Abstract.....: KEEP does on RP on a type-6 file. It is faster
than the RP command and handles CI files too, and the RP won't be undone when
you log off. Additional options allow you to keep the program from being
cloned, detach the program from session, and make the program look as if it
were permanent (genned-in, or LOADR'd with the PE option).

Additional Documentation....: Run it without any parameters and you'll see:
Usage: KEEP, type_6_file [,options]

KEEP will RP and clear the session ID word.
(ie. will RP as if the system manager did it.)

option - DC - set the don't copy bit(inhibit cloning)
        --DC - clear the don't copy bit (allow cloning)
        - DE - detach this program from session
        - PE - make program 'look' permanent
        --PE - make program 'look' temporary

Options may be specified in any order, and can be combined as in
KEEP, SAM.RUN::PROGRAMS, PE, DC

```

```

Contribution Name.....: MAIL
Title.....: Electronic Mail System
File Names.....: 00. Rename Transfer File
                  : 01. 'MAIL - Submission File
                  : 02. &MAIL - Source
                  : 03. %MAIL - Relocatable
                  : 04. #MAIL - LINK command file
                  : 05. $FNEWF - Rev. 2341 (fixes bug in FmpOpen)
                  : 06. "MAIL - help file for /HELP/ directory
Operating System.....: RTE-6VM Rev. C.83 or later
Language(s).....: FTN77
Keywords.....: 1. MAIL
                  : 2. MESSAGE
                  : 3. DATA COMM
External Support Req'd...: 'CI' File System
                  : RTE-6VM Accounts System
If Re-submission, Reason.: no
Contributor's Name.....: R. Arthur Gentry
Company.....: AT&T Communications
Street.....: Rm 785
                  : 811 Main St.
City.....: Kansas City
State.....: Mo.
Country.....: USA
Zip Code.....: 64141
Phone Number...: (816) 391-2446

```

Program Abstract.....: This program is an electronic mail system for RTE-6VM Rev. C.83 or later. It uses a combination of the Session Monitor package and the new 'CI' file system to create a message file for each user receiving mail. It requires a 'CI' file directory called /MESSAGES/ with protection set to rw/rw. The program will create files with the name of +Mnnnn.TXT in that directory, wherer '+Mnnnn' is the message file NAMR found in the Accounts System file +@CCT!.

The message to be sent is created in a temporary scratch file on directory /SCRATCH/, which is automatically purged upon exiting the program. If you want a copy for yourself, make one of the addressee's you!

To send mail, a user enters 'mail s', the program will then prompt the user for 'To:' which can take any of the following forms:

```

USER[,@] - send to this user in any group
USER.GROUP - send to this user in this group
@.GROUP - send to all users in this group
@.@ - send to all users in the system

```

You are also allowed to put multiple addressee's on the line, example:

```
To: GENTRY @.SYS DAVIS.PRODUCTION PAUL
```

(Note- delimiters can be 'spaces' or commas)

The program will then automatically insert the From: (you) and date/time stamp (now). The program will then ask for a Title: this can be anything, up to 80 characters you may wish to call your message, enter a (return) if no title is desired.

The program will now start prompting for the message with '>'. You may now type in the message you wish to send. There is no limit to the length of the message. When finished, enter a 'q' as the first and only character on the line. The program will now ask if you wish to Send, List, Edit, Quit or Abandon the message. Enter:

S(end) - the program will scan the accounts file @+CCT! file for ID's that match your To: addresses, listing the ones it found, and letting you know any it could not find.

L(ist) - the program will list your message to your terminal, 24 lines at a time. Hit the 'space bar' to see the next 24 lines.

E(dit) - the program will schedule EDIT (EDIT/1000) on your message.

Q(uit) - the program will stop, purging your message.

A(bandon) - same a quit

After issuing S, L or E it will always return to the 'what now' prompt, until you enter Q or A.

(cont)

After mail has been sent to a user, the next time he logs on, he will receive a 'MESSAGES WAITING' prompt from the system. To pick up his mail, enter 'mail r [output lu]'. The program will then list out the message file, 24 lines at a time. When finished, the program will ask if you wish to clear the message file. Enter Y or N. Whether you clear the file or not, once you have picked up your mail, the 'MESSAGES WAITING' prompt will be cleared until you receive more mail.

More enhancements are planned, such as a folder system, where you can file away messages; a calendar system for reminders, and a bulletin board.

```

Contribution Name.....: MSAM
Title.....: Monitor running out of S.A.M.
File Names.....: 00. Rename Transfer File
                  01. 'MSAM Submission File
                  02. &MSAM - Main source
                  03. &.ICTL - Subroutine source
Operating System.....: RTE6, RTE4
Language(s).....: MACRO
Keywords.....: 1. MONITOR
                2. SYSTEM TABLES
External Support Req'd...: Standard HP macro library
If Re-submission, Reason.:
Contributor's Name.....: Alan Monath
Company.....: Tymshare
Street.....: 6935 Wisconsin Ave
                :
City.....: Chevy Chase
State.....: Maryland
Country.....: USA
Zip Code.....: 20815
Phone Number...: (301)951-0122
Telex.....:

```



Program Abstract.....:

MSAM will periodically monitor the availability of system memory in an RTE6 or an RTE4 system. If the largest contiguous block of SAM is less than a given threshold MSAM will release a previously allocated block of SAM and go into a tight loop waiting for its break flag to be set. Since SAM runs at priority 2 it effectively blocks out all other programs (except the OP system and any priority 1 programs you have defined). The freed block of sam now gives you enough SAM to run other programs to find out who ate all the memory. After freeing up the samjam, set the programs break flag and it will reallocate a block of S.A.M and go back to monitor mode.

Additional Documentation.....:


```

-----
Contribution Name.....: NEWSKI
  Title.....: TERMINAL SKI GAME
  File Names.....: 00. Rename Transfer File
                  : 01. 'NEWSK Submission File
                  : 02. SKIHLP  HELP & INSTRUCTIONS
                  : 03. #SKIDG  DGL LOAD CMD FILE
                  : 04. &SKIDG  DGL SOURCE FILE
                  : 05. #SKIAP  AGP LOAD CMD FILE
                  : 06. &SKIAP  AGP SOURCE FILE
                  : 07. #WSP   SAMPLE AGP WORK STATION
  Operating System.....: RTE-6 VM
  Language(s).....: FTN77
  Keywords.....: 1. GAMES
  External Support Req'd...:
  If Re-submission, Reason.: PREVIOUS VERSION USED OLD GRAPHICS
                              SUBROUTINES. NEW VERSION UPDATED TO
                              USE GRAPHICS-1000/II SUBROUTINES
Contributor's Name.....: TONY WEST
  Company.....: EATON CORPORATION
                ENGINEERING & RESEARCH CENTER
  Street.....: P.O. BOX 766
  City.....: SOUTHFIELD
  State.....: MICHIGAN
  Country.....: USA
  Zip Code.....: 48076
Program Abstract.....: NEWSKI IS AN UPDATED VERSION OF THE
OLD SKI GAME DATE CODE 2001. THIS IS AN INTERACTIVE GRAPHICS
PROGRAM THAT DISPLAYS A DOWNHILL RACE COURSE AND ALLOWS THE USER
TO CONTROL THE MOTION OF THE SKIER. THE GAME MAY BE PLAYED ON ANY
GRAPHICS TERMINAL AND A VERSION IS SUPPLIED FOR BOTH DGL AND AGP.
Additional Documentation....: GRAPHICS-1000/II MANUALS
-----

```

```

-----
Contribution Name.....: NGLIB
  Title.....: File error reporting routines
  File Names.....: 00. Rename Transfer File
                  : 01. 'NGLIB  Submission file
                  : 02. &NGLOG
                  : 03. &NGF
                  : 04. &NBRK
                  : 05. &NGTRC
                  : 06. [NGCOM  INCLUDE file
                  : 07. *NGLIB  Merge command file
  Operating System.....: RTE-IVB or RTE-6/VM
  Language(s).....: ASMB, FTN4X
  Keywords.....: 1. ERROR
                : 2. MESSAGE
                : 3. HELP
  External Support Req'd...:
  If Re-submission, Reason.:
Contributor's Name.....: R. Niekamp
  Company.....: Hewlett Packard Company
  Street.....: 1001 E. 101st Terrace
  City.....: Kansas City
  State.....: Missouri
  Country.....: USA
  Zip Code.....: 64131
  Phone Number...: (816) 941-0411
Program Abstract.....: A collection of routines to provide an
easy method of reporting file errors
to the user.
Additional Documentation....: Use MERGE with the .NGLIB file to
create a library $NGLIB.
[NCOM is an Include file for the
Fortran routines. It must match
the space reserved in &NGLOG.
-----

```

```

Contribution Name.....: Nkeys
Title.....: User keys programming for 262x CRTs
File Names.....: 00. Rename Transfer File
                  : 01. 'NKEYS - Submission File
                  : 02. #NKEYS - link file
                  : 03. #LOADK - link file
                  : 04. &NKEYS - source
                  : 05. %NKEYS - rel.
                  : 06. &LOADK - source
                  : 07. %LOADK - rel.
                  : 08. &SUBS - sources to library - merged
                  : 09. %SUBS - merged relocateables
                  : 10. $NKEYS - lindx'd subs
                  : 11. KEYFRM - form file
                  : 12. KEYINS - form file
                  : 13. DLKEYS - key set
                  : 14. SKEYS - key set
                  : 15. EKEYS - key set
                  : 16. OBSKEY
Operating System.....: RTE-6/VM,RTE-A,RTE-A.1
Language(s).....: FORTRAN 77
Keywords.....: 1. SOFTKEYS
External Support Req'd...: $fnewf if new file system desired
If Re-submission, Reason..:
Contributor's Name.....: Timothy V. Gill, Ph.D.
Company.....: R. J. Reynolds
Street.....: Bowman Gray Technical Center 611-12
City.....: Winston-Salem
State.....: NC
Country.....: USA
Zip Code.....: 27102
Phone Number...: (919)773-4849
Telex.....:

```

Program Abstract.....: Set of utilities for creating, modifying and programming user keys on 262x CRTS. Program Nkeys is used to define user key sets for HP 262x type terminals. It requires a block mode 2x crt to work. Definitions for user keys 1-8 and return and enter keys are allowed. Definitions are placed in a user specified file. Can be loaded with new file system routines to take advantage of them. File I/O is with fortran 77 i/o not fmp.

Program Loadk is a short program that will load a set of keys created by Nkeys, given a type 2x crt.

Load keys is a subroutine (used by Loadk) that performs the key loading task, given a valid Nkeys-produced file.

Several general purpose routines are included, most dealing with the handling of character data types. They are all in the indexed library \$NKEYS contained with this submission.

Additional Documentation....:

TRANSFER DATA FROM IBM PC TO HP 1000

Contribution Name.....: IBMPC
Title.....: Transfer data from IBM PC to HP 1000
File Names.....: 00. Rename Transfer File
 : 01. 'PCDOC Submission File
 : 02. "PCDOC - Additional Documentation
 : 03. #INITL - TR file to initialize line
 : 04. &TRANS - Basic source for IBM PC
 : 05. &IBMPC - Fortran source program to read dat
Operating System.....: Rte A/VC+
Language(s).....: Ftn7x
Keywords.....: 1. PC
 : 2. DUMP
 : 3. DATA COMM
External Support Req'd...: IBM PC Basic
If Re-submission, Reason.: N/A
Contributor's Name.....: Donald R. Shapiro
Company.....: Logistics Systems
Street.....: 199 Wells Avenue
City.....: Newton Centre
State.....: Ma.
Country.....: U.S.A.
Zip Code.....: 02159
Phone Number...: (617) 965-1111
Program Abstract.....:
IBMPC allows data transfer from an IBM PC to an HP1000 using a serial
port on the IBM PC and the HP12040B 8-channel mux card on the HP1000.
Additional Documentation....: See "PCDOC

```

-----
Contribution Name.....: ANNN01
Title.....: Data Entry / Saving / Plotting Package
File Names.....: 00. Rename Transfer File
                  01. 'PLTSV - Submission File
                  02. &PLTSV - Main Source File
                  03. &PLTS1 - Plotting Segment Source
                  04. &PLTS2 - Labeling Segment Source
                  05. &PLTS3 - Y-Axis Segment Source
                  06. &PLTS4 - Labeling Segment Source
                  07. &PLTS5 - Title Segment Source
                  08. <PLSUB - Plotting Library Source
                  09. <NPSUB - Non-Plotting Library Source
                  10. %PLTSV - Main Relocatable
                  11. %PLTS1 - Plotting Segment Relocatable
                  12. %PLTS2 - Labeling Segment Relocatable
                  13. %PLTS3 - Y-Axis Segment Relocatable
                  14. %PLTS4 - Labeling Segment Relocatable
                  15. %PLTS5 - Title Segment Relocatable
                  16. -PLSUB - Plotting Library Relocatable
                  17. -NPSUB - Non-Plotting Library Relocatable
                  18. *PLTSV - Compile Transfer File
                  19. ^PLTSV - Loader File
                  20. </PLTSV - Turn on Segments
                  21. <PLTSV - Turn off Segments
                  22. &DLTBL - Graphics Device Table Source
                  23. %DLTBL - Graphics Device Table Relocatable
                  24. &LDSEG - Segment Loader Source
                  25. -LDSEG - Segment Loader Relocatable

Operating System.....: RTE-IVB
Language(s).....: FTN4
Keywords.....: 1. Plotting
                2. Graphics
                3. Storage
                4. Data mgmt

External Support Req'd...: Graphics/1000
                          9872 Plotter (Or any Graphics/1000 Device)
                          2648 Terminal (Or any Graphics/1000 Device)

If Re-submission, Reason.
Contributor's Name.....: Jeffrey Sweet
Company.....: Air Force Avionics Lab
Street.....: AFWAL AARI-3

City.....: Wright-Patterson AFB
State.....: Ohio
Country.....: USA
Zip Code.....: 45433
Phone Number...: (513) 255-6361
Telex.....:
-----

```

Program Abstract.....:

PLTSV is a system for Creating, Storing, and Plotting Data Files.
This is a quick and dirty utility for manipulating Data Plots.
These data files are assumed to be any quantity vs. time.
PLTSV is set up to plot to an HP 9872A and an HP 2648A graphics devices.
PLTSV only supports line plots, with one or two plots per page, and
up to 4 curves per plot, each with separate Y-axis. Data Files can
be created and edited as type 3 files.

Additional Documentation.....:

To Load: TR,*PLTSV,1G where 1G is the location of the Sources
It is necessary that the Graphics/1000 Library %GPS be available at
Load Time. If any Graphics devices other, than an HP 9872 Graphics
plotter, and an HP 2648A Graphics Terminal, are to be used, the
subroutine UPGPS in <PLSUB must be modified.

CHANGE PASSWORDS IN @+CCT!

Contribution Name.....: PSWD
Title.....: Change passwords in @+CCT!
File Names.....: 00. Rename Transfer File
 : 01. 'PSWD Submission File
 : 02. &PSWD - Source
 : 03. %PSWD - Relocatable
 : 04. #PSWD - LINK command file
 : 05. \$FNEWG - Rev. 2341 (fixes bug in OPEN)
 (use if loading on C.83 or later)
 (really \$FNEWF, but renamed)
 : 06. >SID - get session ID number
 : 07. %GTSID - relocatable
Operating System.....: RTE-6VM (should work under RTE-4B, but not
 tested)
Language(s).....: FTN77, MACRO
Keywords.....: 1. session
 : 2. SECURITY
External Support Req'd...: Accounts System
If Re-submission, Reason.: no
Contributor's Name.....: R. Arthur Gentry
 Company.....: AT&T Communications
 Street.....: Rm 785
 : 811 Main St.
 City.....: Kansas City
 State.....: Mo.
 Country.....: USA
 Zip Code.....: 64141
 Phone Number..: (816) 391-2446
Program Abstract.....: This program creates 6 character random
passwords for every ID in the accounts file, except MANAGER.SYS and
stores them in the accounts file. See submission for further info.

IMAGE REPORT PROGRAM

```

Contribution Name.....:QBASE
Title.....:Image report program
File Names.....: 00. Rename Transfer File
                  : 01. 'QBASE SUBMISSION FILE
                  : 02. #QBASE LOADR FILE
                  : 03. $QBASE LIBRARY
                  : 04. %QBASE MAIN
                  : 05. %QBAS1 SEGMENT 1
                  : 06. %QBAS2 SEGMENT 2
                  : 07. %QBAS3 SEGMENT 3
                  : 08. %QBAS4 SEGMENT 4
                  : 09. %QBAS5 SEGMENT 5
                  : 10. %QBAS7 SEGMENT 7
                  : 11. %QBAS8 SEGMENT 8
                  : 12. %QBASR SEGMENT R
                  : 13. %QBASI SEGMENT I
                  : 14. SCCOST SAMPLE IMAGE SCHEMA
                  : 15. RPCOST SAMPLE REPORT PROCEDURE
                  : 16. RPORT SAMPLE REPORT
                  : 17. >QBASE
                  : 18. >QBF1
                  : 19. >QBF2
                  : 20. >QBS1
                  : 21. >QBS2
                  : 22. >QBS3          MANUAL FOR QBASE ARE
                  : 23. >OBR1          BRUNO SLIDE FILES
                  : 24. >QBH1
                  : 25. >QBH2
                  : 26. >QBB1
                  : 27. >QBE1
                  : 28. >QBE2
Operating System.....:RT6VM
Language(s).....:FTN7X,ASMB
Keywords.....: 1. Reports
                : 2. IMAGE
External Support Req'd...:IMAGE 1000 92069
If Re-submission, reason.:
Contributor's Name.....:HAL HARP
Company.....:NAVWPNSUPPCEN
                :CODE 70613
                :BLDG. 41NE
City.....:CRANE
State.....:IN.
Country.....:USA
Zip Code.....:47522
Phone Number...:812-854-1034

```

Program Abstract.....:SEPT. 1, 1984

THIS IS A PRELIMINARY VERSION OF AN IMAGE REPORTING PROGRAM.
SOME FEATURES ARE:
1.CROSSES DATA SETS AND DATA BASES USING A UNIQUE KEY NAME.
2.ALLOWS ITEM DATA TO BE PRINTED IN HEADER STATEMENTS.
3.SORTS 1,000,000 TIMES FASTER THAN QUERY.(ROUGH ESTIMATE)
4.TIME,DATE IN HEADER STATEMENTS.
THE LIBRARY \$DMBSY IS A LINDEXED VERSION OF %DBMS,%LOCAL,%NO/DS,
CONTAINED IN YOUR IMAGE/1000 92069 PACKAGE.
THE QBASE MANUAL IS CONTAINED IN FILES 17 THRU 29. THESE ARE TYPE
13 BRUNO SLIDE FILES. IF YOU DON'T USE BRUNO CONTACT ME AND I WILL
SUPPLY A PRINTED MANUAL.
AS THIS IS A PRELIMINARY VERSION I AM SUBMITTING IT IN A WORKABLE
RELOCATABLE FORMAT. SOME FEATURES DO NOT WORK: GROUPING,TOTALS,EDIT.
AT SOME LATER DATE THE PACKAGE WILL BE RE-SUBMITTED INCLUDING SOURCE
FILES.
QBASE USES VMA AND REQUIRES A 64 PAGE PARTITION. IT WILL PRESENTLY
HANDLE 76,792 ITEMS WITH A POTENTIAL OF 2,147,483,647.
QBASE WAS WRITTEN BY RICK CALENTINE OF NAVWPNSUPPCEN CRANE.

CHECK FOR NON-RP'ABLE TYPE 6 FILES

```
-----
Contribution Name.....: RPCHK
Title.....: Check for Non-RP'able Type 6 Files
File Names.....: 00. Rename Transfer File
                  : 01. 'RPCHK Submission file
                  : 02. &RPCHK Ftn7x source
                  : 03. %RPCHK New-style relocatable

Operating System.....: RTE-6, A
Language(s).....: Ftn7x
Keywords.....: 1. Files
                : 2. ID Segment
                : 3. Transportable
                : 4. System
                : 5.
External Support Req'd...: CI file system.
If Re-submission, Reason.:
Contributor's Name.....: Don Pottenger
Company.....: Hewlett-Packard Co.
Street.....: 11000 Wolfe Road
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Telex.....:

Program Abstract.....: RPCHK checks the files specified by its first
argument, a file mask, to see if they will RP. An optional parameter tells
RPCHK to purge old (non-RP'able) type-6 files. This program is especially
handy after a gen, to eliminate those non-transportable dead program files
that lay around the filesystem. The source code is a good example of how
to use the new FMP masking calls on a runstring-specified mask.

Additional Documentation....: Run it without any parameters for the usage.
Usage: RPCHK, fileMask [,PU]
```

HP 264X HARDCOPY PRINTOUT

Contribution Name.....: SCAN
Title.....: HP 264x Hardcopy Printout.
File Names.....: 00. Rename Transfer File.
 : 01. 'SCAN - Submission file.
 : 02. &SCAN - Source file.
 : 03. #SCAN - LINK command file.
Operating System.....: RTE-6/VM
Language(s).....: FTN7X
Keywords.....: 1. Terminal
 : 2. Printer
External Support Req'd...: \$FMP6 library, \$ASUBS library.
If Re-submission, Reason.: Updated to work with CI.
Contributor's Name.....: John L. Anderson Jr.
 Company.....: U.S. Naval Station
 Street.....: WQEC Code 331
 City.....: Seal Beach
 State.....: CA.
 Country.....: USA
 Zip Code.....: 90740
 Phone Number..: (213) 594-7351
 Telex.....:
Program Abstract.....:

SCAN is a FORTRAN program that supplies a terminal hard-copy function for Hewlett-Packard's RTE systems using the 264x terminals using a 12966A interface. SCAN emulates a terminal hard-copy device by interrogating the terminal's local memory and transmitting its contents to the standard system printer. To get a copy of all of the terminal's contents type: RU,SCAN. SCAN will automatically send the cursor to the home position and transfers the display information to the system printer (Lu 6). For a partial scan, type: RU,SCAN,,P (Move the cursor to the first line to be copied before typing "return"). SCAN will copy from that line up to but not including the line containing RU,SCAN,,P. in either case, a form feed is provided after the copy as an added convenience. The output is also spooled automatically for immediate print out. An Lu can be specified as the first parameter to output to a difference line printer.

Additional Documentation....:

\$ASUBS library is in another contribution.


```

-----
Contribution Name.....: See
Title.....: File windows for HP-232X terminals
File Names.....: 00. Rename Transfer File
                  01. 'SEE Submission File
                  02. &SEE FORTRAN source file
                  03. %SEE Relocateable
                  04. $C2623 Relocateable library
                  05. &C2623 Library FORTRAN source
                  06. #SEE LINK command file

Operating System.....: RTE-6/VM
Language(s).....: FORTRAN 77
Keywords.....: 1. Window
               2. Graphics
               3. Terminal
               4.
               5.

External Support Req'd...: Library file $C2623
If Re-submission, Reason.:

Contributor's Name.....: Wayne Bergeron
Company.....: General Electric
Street.....: 210 Wynn Drive

City.....: Huntsville
State.....: Alabama
Country.....: USA
Zip Code.....: 35805
Phone Number...:

Program Abstract.....: Are you tired of people showing off
their microprocessor's windowing capability, and asking how you can
use a terminal without that capability? Well, if the light isn't
too bright, you too can amaze the uninitiated with 'windows' on you
HP-2623A, and HP-2627 terminals. I wrote this program to have various
parts of a program under development displayed on the graphics display
of my terminal. I have been able to display up to 10 or so small modules
in graphics, while editing in the alphanumeric display. Two keystrokes
switch the two displays on or off. To use it, position the graphics
cursor, turn on the graphics display, and 'RU,SEE,FILEX::CR'.

Additional Documentation....: See the program listing.
-----

```

EXAMINE SWAPPED PROGRAM

```

-----
Contribution Name.....: SNOOP
Title.....: Examine swapped program
File Names.....: 00. Rename Transfer File
                  01. 'SNOOP Submission file
                  02. &SNOOP FTN4X Source
                  03. &SNOOA ASMB Source
                  04. "SNOOP Documentation file

Operating System.....: RTE IVB
Language(s).....: FTN4X,ASMB
Keywords.....: 1. Debug
                2. System
                3. Utility
                4.
                5.

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Carl Falstrom
Company.....: ACCESS Corporation
Street.....: 4815 Para Drive

City.....: Cincinnati
State.....: Ohio
Country.....: USA
Zip Code.....: 45237
Phone Number...: (513) 242-4220
Telex.....:

```

Program Abstract.....: If you have ever had to resort to inserting numerous write statements throughout a program you are debugging because loading the DBUGR with your program causes memory overflow, SNOOP can help. By suspending the program under test (either programmatically or with 'SS,PROG') and forcing the program to swap out you may use SNOOP to display program code and data. Use the load map and symbol tables to locate the addresses of interest and SNOOP will display the contents.

Compile &SNOOP with FTN4 or FTN4X and assemble &SNOOA. Load the resulting relocatables as a BG program and you are ready to SNOOP.

Additional Documentation.....: See the documentation file "SNOOP for usage.

Filename Alterations for the Swap Tape:
Original file name &INVR5 is now &SNOOA on this tape.

SPOOL INTERFACE LIBRARY

```

-----
Contribution Name.....: SPINT
Title.....: Spool Interface Library
File Names.....: 00. Rename Transfer File
                  : 01. 'SPINT Submission file
                  : 02. &SPINT
                  : 03. &SPING
                  : 04. &SPINT
                  : 05. "SPINT Paper from conference
Operating System.....: RTE 6/VM
Language(s).....: FTN77
Keywords.....: 1. SPOOLING
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Bob Hilton
Company.....: SunFlooring, Inc.
Street.....: 7475 Chancellor Drive
City.....: Orlando
State.....: Florida
Country.....: USA
Zip Code.....: 32809
Phone Number...: 305-351-6440
Telex.....:

```

```

Program Abstract.....:
A set of routines for programmatic handling of spooling. Their usage
can be instrumental in maintaining a high degree of printer utilization,
and system and operator efficiency. See file "SPINT" or the 1984 San
Jose conference proceedings.

```

LETTER-QUALITY PRINTER SETUP UTILITY

```

-----
Contribution Name.....: SPINW
Title.....: Letter-quality Printer Setup Utility
File Names.....: 00. Rename transfer file
                  : 01. 'SPINW Submission File
                  : 02. &SPINW
                  : 03. &SPINW
Operating System.....: RTE-6VM
Language(s).....: FTN7X
Keywords.....: 1. Printer
                  : 2. Utility
                  : 3. Word Processing
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: William L. Steele
Company.....: Tobacco Institute Testing Laboratory
Street.....: 2 Taft Court, Suite 201
City.....: Rockville
State.....: MD
Country.....: USA
Zip Code.....: 20850
Phone Number...: 301-294-8582

```

```

Program Abstract.....:
Spinw is a menu driven utility for setting margins, line
spacing and pitch on letter-quality printers responding to
Diablo control codes. It is especially handy to run
from EDIT prior to listing text.

```

It works with a Model 7725 Spinwriter interfaced with 12966A card using driver DVFOO, and should work with a Diablo 630. See source for more details or run program and select the information option from menu.

Change variable LUOUT in source code to printer lu number. Compile SPINW with FTN66 option only.

Additional Documentation.....:

USER ACCESS TO SYSTEM SPOOL FILES

```

-----
Contribution Name.....: SPLUM
Title.....: User access to system SPOOL files.
File Names.....: 00. Rename Transfer File.
                  : 01. 'SPLUM - Submission file.
                  : 02. &SPLUM - Spool Control Program.
                  : 03. &SPOLU - Spool setup program.
                  : 04. &SPLOT - Spool output program.
                  : 05. &IFMGR - FMGR error processor.
                  : 06. *SPLUM - LOADR command file.
Operating System.....: RTE-6/VM
Language(s).....: MACRO
Keywords.....: 1. System
                : 2. Spooling
External Support Req'd...: Spool system must be in system generation.
If Re-submission, Reason.: Corrected problems with lost spool files.
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Program Abstract.....:

```

This set of routines allows the user to access the system SPOOL files through simple program calls. All security checking is bypassed so any user may access the SPOOL files. The units to be spooled must be setup by GASP when the system is initialized for the first time. 'SPLUM' must be loaded as a permanent program by 'LOADR'. The JOBFIL is now locked when being updated to avoid multiuser contentions.

Additional Documentation....:

Program calls:

SPOLU schedules program SPLUM which sets up a spool request for a spool pool file. See &SPOLU listing for calling sequence.

SPLOT makes a call to EXEC to schedule SMP for a close spool and pass operation. See &SPLOT listing for calling sequence.

CI SPOOLING FOR RTE-6/VM

```

Contribution Name.....: SPOOL
Title.....: CI Spooling for RTE-6/VM.
File Names.....: 00. Rename Transfer File.
                  01. 'SPOOL - Submission file.
                  02. &SPOOL - Spool Control Program.
                  03. &ISPON - Spool setup program.
                  04. #SPOOL - LINK command file.
Operating System.....: RTE-6/VM
Language(s).....: FTN7X, MACRO
Keywords.....: 1. Conversion
                2. Spooling
External Support Req'd...: Spool system must be in system generation.
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U. S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Program Abstract.....:

```

This program allows RTE-6/VM CI user's to spool Lu's and files as RTE-A does. It is no longer necessary to go back to FMGR every time you want to change a spool setup. There are some limitations because of the way spooling is done in RTE-6. A blank cannot be inserted at the beginning of each line to suppress carriage control on lineprinters. Spool pool files are used in the same way the 'SL' command works under FMGR. The program must not be called 'SP' if it is on a FMGR cartridge. CI files cannot be spooled directly. Copy them to FMGR cartridges.

Additional Documentation.....:

The following commands are available:

```

CI> Sp ON [Lul] [Lu2]      Enables spooling to Lul or
                           redirects spooling from Lul to Lu2.
CI> Sp Off [Lul]          Closes out spooling to Lul.
CI> Sp Status             Displays the status of all spools
                           in the system.
CI> Sp Kill or KS [Lul]   Kills the spool file associated with
                           or ['File'] the current Lul of the named file.
CI> Sp REstart 'File'     Restarts the spool file from the
                           or RS beginning.
CI> Sp LList 'File' [Lul] Queues the file for output to Lul.

```

Note: The default for Lul is 6.

Note: \$ASUBS is in another contribution.

MAKE USER SUPERUSER OR NON-SUPERUSER FOR SESSION

```

-----
Contribution Name.....: SUPERUSER
Title.....: Make user Superuser or non-Superuser for session
File Names.....: 00. Rename Transfer File
                  01. 'SUPER Submission File
                  02. &SUPER
                  03. &ENERG
Operating System.....: RTE-A
Language(s).....: FTN7X, MACRO
Keywords.....: 1. Session
                2. SECURITY
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: DALE S. GARCIA
Company.....: TECHNOLOGY DEVELOPMENT OF CALIFORNIA
                  DEFENSE SYSTEMS GROUP
Street.....: 624 SIX FLAGS DRIVE
City.....: ARLINGTON
State.....: TEXAS
Country.....: USA
Zip Code.....: 76012
Phone Number...: (817) 461-1242
Telex.....:
Program Abstract.....: This program can make the scheduling user a
                        Superuser or make a Superuser a Normal user
                        for the current session.
Additional Documentation...: The subroutine 'Energize' may be called to
                        programatically make a user a Super/Non-super
                        user.
-----

```

SET SYSTEM TIME AND TEACH ABOUT SOFTKEYS

```

-----
Contribution Name.....: TIME
Title.....: Set System Time and teach about softkeys
File Names.....: 00. Rename Transfer File
                  01. 'TIMEH Submission File
                  02. &TIMEH
                  03. %TIMEH
Operating System.....: RTE-6 V/M
Language(s).....: FORTRAN 7X
Keywords.....: 1. Time
                2. Softkeys
External Support Req'd...: none
If Re-submission, Reason.: n/a
Contributor's Name.....: David Rogendorff
Company.....: General Electric Company
Street.....: 110 Wynn Dr, NW.
City.....: Huntsville
State.....: AL
Country.....: U. S. A.
Zip Code.....: 35801
Phone Number...: 205-837-7701 X 140
Program Abstract.....: This submission is useful as the first
                        program in WELCOM to help the new or occasional operator get familier
                        with the use of the terminal in an interactive automatic operation.
                        Help is available for two types of prompts - 1) data entry and 2) soft-
                        key responding.
Loading: Use LINK,%TIMEH or LOADR,,%TIMEH
Additional Documentation....: Run TIME and press return at prompts.
-----

```

HP150 TOUCH SCREEN SUBROUTINE LIBRARY

Contribution Name.....: TOULB
Title.....: HP150 TOUCH SCREEN SUBROUTINE LIBRARY
File Names.....: 00. Rename Transfer File
 : 01. 'TOULB Submission File
 : 02. &TOULB
Operating System.....: RTE-6VM, RTE-A.1, RTE-A
Language(s).....: FTN7X
Keywords.....: 1. PC
 : 2. Library
External Support Req'd...: none
If Re-submission, Reason.:
Contributor's Name.....: PETE BOWERS
 Company.....: DOWELL SCHLUMBERGER
 Street.....: PO BOX 2710
 City.....: TULSA
 State.....: OKLAHOMA
 Country.....: USA
 Zip Code.....: 74101
 Phone Number...: (918)250-4286
 Telex.....:
Program Abstract.....: A SERIES OF SUBROUTINES TO UTILIZE THE
 TOUCH SCREEN CAPABILITY OF THE HP150 FROM
 THE HP1000.
Additional Documentation....:

TRANSPARENCY PLOTTER (GRAPHICS 1000/II VERSION OF BRUNO)

```

Contribution Name.....: TPLLOT
Title.....: Transparency plotter (Graphics 1000/II version of BRUNO)
File Names.....: 00. Rename Transfer File
                  : 01. 'TPLLOT SUBMISSION FILE
                  : 02. &UPSHF
                  : 03. &BLBRD
                  : 04. &BILBD
                  : 05. &TPLOT
                  : 06. &TPLT3
                  : 07. &TPLT4
                  : 08. &TPLT5
                  : 09. &TPLT6
                  : 10. &TPLT7
                  : 11. /TPLLOT
                  : 12. #TPLLOT
                  : 13. &TPLT0
                  : 14. $SKLIB
                  : 15. &TPLT2
                  : 16. &TPLT9
                  : 17. &TPLT8
                  : 18. &FORMA
                  : 19. &FORM6
                  : 20. %FORMA
                  : 21. %FORM6
                  : 22. %UPSHF
                  : 23. %BILBD
                  : 24. $SKLI2
                  : 25. &TPLT1
                  : 26. #BLBRD
                  : 27. %BLBRD
                  : 28. %TPLLOT
                  : 29. %TPLT0
                  : 30. %TPLT1
                  : 31. %LIBRY
                  : 32. &LIBRY
                  : 33. $LIBRY
                  : 34. %TPLT2
                  : 35. %TPLT3
                  : 36. %TPLT4
                  : 37. %TPLT5
                  : 38. %TPLT6
                  : 39. %TPLT7
                  : 40. %TPLT8
                  : 41. %TPLT9
                  : 42. "TMANL
                  : 43. $DSUBD
                  : 44. &TSUBC
                  : 45. %TSUBC
                  : 46. $TSUBC
                  : 47. ?TPLLOT TPLLOT HELP FILE
                  : 48. &TEDIT
                  : 49. %TEDIT
                  : 50. ?TEDIT TEDIT HELP FILE
                  : 51. %PRNTF
                  : 52. %ITMLU
                  : 53. #TEDIT
                  : 54. ?STOF
                  : 55. #STOF
                  : 56. &STOF
                  : 57. %STOF STOF HELP FILE

```

(cont)

 TRANSPARENCY PLOTTER (GRAPHICS 1000/II VERSION OF BRUNO) (cont)

Operating System.....: RTE-6VM, RTE-A.1, RTE-A
 Language(s).....: FORTRAN 77
 Keywords.....: 1. GRAPHICS
 : 2. PLOTTING
 External Support Req'd...: GRAPHICS 1000/II AGP AND DGL
 If Re-submission, Reason.: CONVERSION OF BRUNO TO GRAPHICS 1000/II
 Contributor's Name.....: PETE BOWERS
 Company.....: DOWELL SCHLUMBERGER
 Street.....: PO BOX 2710
 :
 City.....: TULSA
 State.....: OKLAHOMA
 Country.....: USA
 Zip Code.....: 74101
 Phone Number...: (918)250-4286
 Telex.....:
 Program Abstract.....:

TPLOT is a Graphics 1000/II version of BRUNO

The BRUNO manual has been slightly modified and is included in "TMANL.

If you can use BRUNO then you can use TPLOT.

All BRUNO figure and slide files work with TPLOT.

The program BLBRD does the actual plotting and can be used independently of TPLOT.

The program TEDIT will allow you to edit a TPLOT slide file (this is a version of BRNED if you have seen that program before).

The program STOF will convert a slide file consisting of lines and circles into a figure file.

Using STOF and TEDIT it is possible to convert X,Y data into figure and/or slide files.

THINGS TO KNOW

TPLOT looks for work station programs in the form of W2623,W2648,W9872, etc. You can however specify the work station program in the run string. You may also specify the crn the font files are located on. If you do this the initialization time will be cut in half.

KNOWN BUGS

You cannot plot to your own terminal directly. We haven't had time to work this bug out and we just tell people to edit a slide file to see what it looks like.

This is not our bug but HP's. Theoretically you should be able to LINK TPLOT instead of using the LOADR. However a bug in HP's software kept giving us an EM82 error. We have not yet gone to the next software revision to see if this fixes this error. Loading works just fine except you have to contend with all those segments.

Additional Documentation....:

GRAPHICS 1000/II REFERENCE MANUALS

INTERPRET IMAGE-2 LOG FILE TRANSACTIONS

```

-----
Contribution Name.....: TRINT
Title.....: Interpret Image-2 Log File Transactions
File Names.....: 00. Rename Transfer File
                  : 01. 'TRINT Submission file
                  : 02. &TRINT Source file
Operating System.....: RTE-A (and 6?)
Language(s).....: FTN7X
Keywords.....: 1. Image
                : 2. Database
                : 3.
                : 4.
                : 5.
External Support Req'd...: An Image-2 logfile
If Re-submission, Reason.:
Contributor's Name.....: G. Masters & S. Wolfe
Company.....: MOD DQA/TS (ELEC)
Street.....: Royal Arsenal East
City.....: Woolwich SE.18
State.....: London
Country.....: UK
Zip Code.....:
Phone Number...:
Telex.....:
Program Abstract.....:

```

List the transactions in an HP IMAGE-2 Transaction Log File, in a 'human readable' format.

The 'namr' of the Transaction Log File can be the 1st parameter in the program runstring. The 2nd parameter can be the 'namr' of a particular IMAGE-2 Root File to search for. If these parameters are omitted, the program will prompt for them. If the 3rd parameter is given as '6' (the standard HP line-printer LU) then the output will be directed there; else it will default to splurging onto the originating terminal.

AUTHOR'S NOTE

The program was bolted together in a hurry, when IMAGE-2 rudely burst into our particular corner of the Cosmos. Thus treat the output with suspicion - at least until you feel you can trust it! We have been advised to plead 'Diminished Responsibility' at any future court proceedings!

Additional Documentation....: See the prologue in the source file &TRINT.

TIME SUBROUTINES

```

Contribution Name.....: TSUBS
  Title.....: Time Subroutines
  File Names.....: 00. Rename Transfer File
                  : 01. 'TSUBS - Submission File
                  : 02. &ACDAT - Source code
                  : 03. &CHDAT - Source code
                  : 04. &DOWEK - Source code
  Operating System.....: RTE-IVB,RTE-VI
  Language(s).....: FTN4X
  Keywords.....: 1. Time
  External Support Req'd...:
  If Re-submission, Reason.:
Contributor's Name.....: Ronnie F. Lee
  Company.....: Gulf Oil Products Co.
  Street.....: Chemical Row
                  :
  City.....: Orange
  State.....: Texas
  Country.....: USA
  Zip Code.....: 77630
  Phone Number...: (409) 882-2169
  Telex.....:

```

Program Abstract.....:

This is a collection of three simple subroutines to perform various time and date calculations. Subroutine ACDAT will read the clock and put the date (MM-DD-YY) in the first three words of an integer array in ascii format. Subroutine CHDAT will change a date from ascii to integer or vice-versa and check the date for validity. Subroutine DOWEK will calculate the day of the week for any date from 1-1-1 to 12-31-32767.

Additional Documentation.....:

DISPLAY TYPE 6 FILE INFORMATION

```

Contribution Name.....: TYPE6
Title.....: Display Type 6 file information.
File Names.....: 00. Rename Transfer File.
                  01. 'TYPE6 - Submission file.
                  02. &TYPE6 - Program source.
                  03. #TYPE6 - Link command file.
Operating System.....: RTE-6/VM only.
Language(s).....: FTN7X
Keywords.....: 1. Files
                2. System
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
Company.....: U.S. Naval Station
Street.....: WQEC Code 331
City.....: Seal Beach
State.....: CA.
Country.....: USA
Zip Code.....: 90740
Phone Number...: (213) 594-7351
Program Abstract.....:

```

This program allows the user to display information about type 6 files created by LINK. It gives program bounds, types and segment information.

Additional Documentation.....:

Example run:

```
CI> TYPE6,FC.RUN
```

```
Program FC      created 11:03 am  May 10, 1983
```

```
Extended background,  Priority  90
```

```
Base page bounds for main 0002, 0154
Highest address+1 of largest segment 61030
```

```
Program size is 32 pages
EMA Size is  0 pages
```

```
Segment Directory Block  57  Word offset 062
Segment table address 15553, no. of segments  7
```

Segment	Name	Low address	High address	Entry point
	FC	02000	15662	03251
1	FC000	15663	42644	15663
2	FC001	15663	50072	15663
3	FC002	15663	61030	15663
4	FC003	15663	56542	15663
5	FC004	15663	24713	15663
6	FC005	15663	42206	15663
7	FC006	15663	33603	15663

Done

 FMGR CARTRIDGE VERIFICATION PROGRAM

Contribution Name.....: VERIFY
 Title.....: FMGR cartridge verification program.
 File Names.....: 00. Rename Transfer File.
 : 01. 'VERIF - Submission file.
 : 02. &VERIF - FTN7X Source.
 : 03. #VERIF - LINK command file.
 Operating System.....: RTE-6/VM, RTE-A
 Language(s).....: FTN7X
 Keywords.....: 1. Directory
 : 2. Reports
 : 3. Data Management
 : 4. Status
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: John L. Anderson Jr.
 Company.....: U. S. Naval Station
 Street.....: WQEC Code 331
 City.....: Seal Beach
 State.....: CA.
 Country.....: USA
 Zip Code.....: 90740
 Phone Number...: (213) 594-7351
 Telex.....:
 Program Abstract.....:

This program verifies FMGR cartridges checking for any errors in directories and files. Statistics on the file space used is given along with other directory information. The space used by each file is compared with the directory label making sure there are no errors. Also the first record of each file is read making sure the directory points to valid information. The FSTAT call may need to be changed for RTE-A.

Additional Documentation....:

VIEWSCREEN HANDLING PROGRAM

```

Contribution Name.....: VIEW
Title.....: Viewscreen Handling Program
File Names.....: 00. Rename Transfer File
                  01. 'VIEW - Submission file
                  02. *VIEW - Compile command file for VIEW
                  03. #VIEW - Link command file
                  04. "VIEW - View help file (ASCII)
                  05. &VIEW - Source code
                  06. %VIEW - Compiled code
                  07. *VLIB - Compile command file for $VLIB
                  08. &VLIB - Source code for $VLIB
                  09. $VLIB - VIEW interface library
                  10. *RR - Compile command file for R
                  11. #R - Link command file
                  12. "R - R help file (ASCII)
                  13. &R - Source code
                  14. %R - Compiled code
Operating System.....: RTE-6/VM, RTE-4B
Language(s).....: Pascal
Keywords.....: 1. Documentation
                2. Help
                3. Terminal
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: David J. DeLisle
Company.....: N.S.W.S.E.S. (U.S. NAVY)
Street.....:
City.....:
State.....:
Country.....:
Zip Code.....:
Phone Number...:

```



Program Abstract.....:

VIEW is a program which handles viewscreens. Each line of the viewscreen may have several hundred characters in it. VIEW will read the image of a viewscreen from the terminal screen into a "type 25" file. If a viewscreen file has records longer than 256 characters, the system commands (such as ST) would truncate the lines, so VIEW has several commands to manipulate the type 25 files (ie COPY, MOVE, DISPLAY, SAVE). VIEW can also READ from the unprotected fields of a viewscreen into a disc file in a format which is easily read by other programs, or read fields from a disc file to fill the unprotected fields of a viewscreen. When VIEW reads unprotected fields, it will convert illegal characters (ie escape characters) into blanks and flag the problem in the disc file. VIEW will also sense input and report if the ENTER key was pressed, or which of the eight function keys was pressed, or if a read timeout occurred (set with an EXEC(3,22B,<centiseconds>)). The library \$VLIB and the pascal library must be searched (in that order) to make calls from your programs which schedule VIEW and use it's commands. The program, R, is a version of the UNIX "MORE" program which works well with help files such as "VIEW as online utility documentation. R simply reads from a disc file a page at a time until the end of file has been reached or you press an 'N' or an 'n' at the end of a page.

VIEW will work well for database transaction programs, but is slow because the subroutines in \$VLIB all schedule VIEW and communicate through disc files. You could simply merge portions of &VIEW into your programs and do some minor modifications if you need the additional speed.

Additional Documentation.....: "VIEW, "R, &VIEW

TRACK MAP DVT TABLE

```

Contribution Name.....: CS80
Title.....: Track map DVT table
File Names.....: 00. Rename Transfer File
                  : 01. 'CS80 Submission file
                  : 02. &CS80 Source
                  : 03. %CS80 Relocatable
Operating System.....: RTE-IVB,RTE-VIB,RTE-A,??
Language(s).....: FTN4,FTN4X,FTN7X,FTN77
Keywords.....: 1. System Tables
                : 2. disc
                : 3. generation
External Support Req'd...: None
If Re-submission, Reason:
Contributor's Name.....: Paul Abell
Company.....: General Telephone
Street.....: 3007 Roxboro Rd.
City.....: Durham
State.....: North Carolina
Country.....: USA
Zip Code.....: 27704
Phone Number...: 919-471-5825
Telex.....:
  
```

Program Abstract.....:
 This program will evenly divide a track map for a CS80 disk drive and print a list of the required DVT entries which can be modified to suit your particular RTE-A generation needs. It can also divide the track map to suit your own personal layout, it does not have to be evenly divided. You can also specify how many lu's you wish to have on the drive.

Additional Documentation.....:

It does not take in to account the cartridge tape drive associated with some drives. It also assumes a 96 sector/track configuration. The program is very simple and can be easily modified to suit your particular needs. Output can be to any device, controlled by the run line parameters. If you wish to output the information to a disk file, you can use this approach:

Use LU redirection, on an RTE-A system it might look something like this:

```

CI> SP
RTE A.2 Spooling System
Type ? for help
-ON,6,#CS80
-EX
CI> CS80,,6
-----
data prints out
-----

CI> SP
RTE A.2 Spooling System
Type ? for help
-OF,6
-EX
CI>
  
```

On RTE-IVB or VIVM you might use something like this:

```

:LL,6,!CS80
:CS80,,6
-----
data prints out
-----

:LL,1
:
  
```

HELP FILE FOR SPECIFIC TOPICS

```

-----
Contribution Name.....: TRBL
Title.....: Help file for specific topics
File Names.....: 00. Rename Transfer File
                  01. 'TRBL Submission file
                  02. &TRBL Source
                  03. %TRBL Relocatable
                  04. TRBFIL Data file
Operating System.....: RTE-IVB,RTE-VIB,RTE-A,??
Language(s).....: FTN4,FTN4X,FTN7X,FTN77
Keywords.....: 1. Documentation
               2. Help
External Support Req'd...: FMP subroutines, if not available
If Re-submission, Reason.:
Contributor's Name.....: Paul Abell
Company.....: General Telephone
Street.....: 3007 Roxboro Rd.
               :
City.....: Durham
State.....: North Carolina
Country.....: USA
Zip Code.....: 27704
Phone Number...: 919-471-5825
Telex.....:
Program Abstract.....:

```

This program will list out information of any form by typing in a two (2) character topic name from the printed list. It was designed to aid dial up users or any user of the computer system when they encountered trouble with the system or an unusual output from a program that was not expected. When this occurs they type in TRBL from the file manager and it will give them a list of trouble topics to choose from. They type in a topic name and it will list out what ever is in the file under that topic. This method is used in the A system for help and error reporting. It is becoming very popular.

Additional Documentation.....:

This program uses file manager routines to access and list out a type four (4) file. It uses the FMGR routine APOSN to simulate type two (2) file access. This gives very fast response from a very large sequential file. The program also simulates the FMPLISTPROGRAM approach of the RTE-A system, as does CI>. It will list out a crt screens worth of information and then stop, waiting for one character to be typed from the terminal. The character typed determines which further action to be taken. The program has a help function of two (2) question marks (??) which will print out the directory. Whenever new or more information is added, the program will update itself with new record pointers. Adding information or topics is documented in the data file. The data file name is TRBFIL with a security code of TF. This allows anyone to read the file, but only the manager to add or delete data, while allowing it to be on a cartridge accessible to any user.

WHO'S ON LINE ON WHAT NUMBER

```

-----
Contribution Name.....: WHO
Title.....: Who's on line on what number
File Names.....: 00. Rename Transfer File
                  : 01. 'WHO Submission File
                  : 02. &WHO Source
                  : 03. %WHO Relocatable
Operating System.....: RTE-A VC+
Language(s).....: FTN7X, FTN4X, FTN4
Keywords.....: 1. Modem
                  : 2. Accounting
External Support Req'd...: VC+ on RTE-A
If Re-submission, Reason.:
Contributor's Name.....: Paul Abell
Company.....: General Telephone
Street.....: 3007 Roxboro Rd.
                  :
City.....: Durham
State.....: North Carolina
Country.....: USA
Zip Code.....: 27704
Phone Number...: 919-471-5825
Telex.....:
Program Abstract.....:

```

This program will print out the active users on the system, the LU they dialed in on, or were on and the telephone number they attached to when they signed on.

Additional Documentation....:

The system entry point for the user ID table is obtained from the system generation output list file. Locate variable \$USIDA and put this octal number in the program in place of the one that is there if it is different. The table called SESSION contains session numbers of legal LU's for your system. If you have more than 25 LU's in your system, increase the table size or decrease it as the case may be. Change the description of the phone number or terminal in array NUMBER to match your phone numbers or terminal configurations.

BIT VECTOR MANIPULATION SUBROUTINE

```

-----
Contribution Name.....: IBITS
Title.....: Bit Vector Manipulation Subroutine
File Names.....: 00. Rename Transfer File
                  01. 'IBITS Submission File
                  02. &IBITS

Operating System.....: RTE
Language(s).....: ASMB
Keywords.....: 1. BIT
               2. ARRAY

External Support Req'd...: EAU
If Re-submission, Reason.:

Contributor's Name.....: David Ratti
Company.....: Continental Testing Laboratories
Street.....: 763 US HiWay 17-92
City.....: Fern Park
State.....: Florida
Country.....: USA
Zip Code.....: 32730
Phone Number...: (305) 831-2700
Telex.....: 810-853-0252

Program Abstract.....: A subroutine to allow manipulation of
Additional Documentation....: individual bits in an integer array.
                          In source file.
-----

```

DECODE RELOCATABLE RECORDS

```

-----
Contribution Name.....: DCODE
Title.....: Decode relocatable records
File Names.....: 00. Rename Transfer File
                  01. 'DCODE - Submission File
                  02. &DCODE - Source File

Operating System.....: RTE-6/VM
Language(s).....: Assembler
Keywords.....: 1. Inverse
               2. Relocatable

External Support Req'd...: .ENTR
If Re-submission, Reason.:

Contributor's Name.....: Robert Meldrum
Company.....: Telesat Canada
Street.....: 333 River Road
City.....: Ottawa
State.....: Ontario
Country.....: CANADA
Zip Code.....: K1N 8A9
Phone Number...: 613-234-7612
Telex.....: 053-4184

Program Abstract.....: With the introduction of RTE-6/VM, the
relocatable record format changed. Many programs such as RELIA and
MXREF no longer worked as a result.
This subroutine was written to provide easy interfaces to both old
and new relocatable records.
(RELIA has been rewritten to use it but was not fully debugged in time
for donation to the swap tape.)
Additional Documentation....: Full documentation accompanies each
                          subroutine.
-----

```

INPUT ROUTINES W/ERROR CHECKING FOR THE HP1000

```

-----
Contribution Name.....: DCIEC
Title.....: Input Routines w/error checking for the HP1000.
File Names.....: 00. Rename Transfer File
                  : 01. 'DCIEC - Submission file
                  : 02. <DCIEC - Documentation file.
                  : 03. &LBIEC - Source Code
                  : 04. *LBIEC - Relocatable code
                  : 05. *LBIEC - Transfer file
Operating System.....: RTE-IVB/6VM
Language(s).....: FTN4X
Keywords.....: 1. Error
               : 2. INPUT
               : 3. INTERACTIVE
External Support Req'd...: none
If Re-submission, Reason.:
Contributor's Name.....: Scott Hill
Company.....: Pittsburgh-Des Moines Corporation
Street.....: 1015 Tuttle Street / P. O. Box 1596
City.....: Des Moines
State.....: Iowa
Country.....: USA
Zip Code.....: 50306
Phone Number...: 515-244-6000 ext. 235
Telex.....:
Program Abstract.....:

```

These subroutines have been used at PDM for about two years and have eased the programming workload somewhat. Their primary goal is to provide a method of obtaining information from the user, and then assure that that information is valid for the specific use (ie. within specified range).

Additional Documentation....:

See submission <DCIEC for additional information.

NOTE ON DISCS:

The transfer file *LBIEC expects to have all files on cartridge 55. Use the editor to change this to fit your system. Also, *LBIEC will put the indexed file \LBIEC on cartridge 22. You may have to change this also.

LISP INTERPRETER

Contribution Name.....: LISP
Title.....: LISP INTERPRETER
File Names.....: 00. Rename Transfer File
 : 01. 'LISP Submission File
 : 02. &LISP
 : 03. %LISP
 : 04. "LISP

Operating System.....:
Language(s).....: PASCAL
Keywords.....: 1. Interpreter
 : 2. Language
 : 3. AI

External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Michael A. Moran
 Company.....:
 Street.....: 1065 Greco Ave. #A103
 :
 City.....: Sunnyvale
 State.....: CA
 Country.....: USA
 Zip Code.....: 94087
 Phone Number...: 408-737-9177
 Telex.....:

Program Abstract.....:
This LISP interpreter is written in standard PASCAL modified slightly for the HP1000. It is approximately MACLISP in dialect except for function definition. Also APPLY doesn't work correctly. There are no arrays. All numbers are real. Any additions made should be sent to me so I can spread them around.

Additional Documentation.....:

ENTRY POINT MAPPING UTILITY

```

Contribution Name.....: ENMAP
Title.....: Entry Point Mapping Utility
File Names.....: 00. Rename Transfer File
                  01. 'ENMAP Submission file
                  02. &ENMAP
                  03. *ENMAP
                  04. &MAPUT
Operating System.....: RTE-4B, RTE-6/VM
Language(s).....: FTN4X
Keywords.....: 1. Relocatable
                2. Entry Points
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: H. Anderson McKellar
Company.....: MCI Telecommunications
Street.....: 906 N. Bowser
City.....: Richardson
State.....: Texas
Country.....: USA
Zip Code.....:
Phone Number...: 214/234-3291
Telex.....:

```

Program Abstract.....:

Program to create a directory of entry points in one or more relocateable files. Input file may be either relocateable or a list of relocateables; output may be directed to either a device or a disc file. Reads RTE-6 extended-record (16-character label) files as well as the old format (5-character label) files. To run from FMGR, proper form is

```
:RU,ENMAP,<input file>,<optional output namr>
```

The input file must be type 3, 4, or 5. The default output namr is the scheduling device. If the parameters are omitted, a line is printed reminding the user of the proper run string format.

```
Additional Documentation.....: NONE.
```

```

-----
Contribution Name.....: EXMAP
  Title.....: External Reference Mapping Utility
  File Names.....: 00. Rename Transfer File
                  : 01. 'EXMAP Submission file
                  : 02. &EXMAP
                  : 03. *EXMAP
                  : 04. &MAPUX Same as &MAPUT in &ENMAP
  Operating System.....: RTE-4B, RTE-6/VM
  Language(s).....: FTN4X
  Keywords.....: 1. Relocatable
  External Support Req'd...:
  If Re-submission, Reason.:
Contributor's Name.....: H. Anderson McKellar
  Company.....: MCI Telecommunications
  Street.....: 906 N. Bowser
  City.....: Richardson
  State.....: Texas
  Country.....: USA
  Zip Code.....:
  Phone Number...: 214/234-3291
  Telex.....:

```

Program Abstract.....:

Program to create a directory of entry points in one or more relocateable files. Input file may be either relocateable or a list of relocateables; output may be directed to either a device or a disc file. Reads RTE-6 extended-record (16-character label) files as well as the old format (5-character label) files. To run from FMGR, proper form is

```
:RU,ENMAP,<input file>,<optional output namr>
```

The input file must be type 3, 4, or 5. The default output namr is the scheduling device. If the parameters are omitted, a line is printed reminding the user of the proper run string format.

```
Additional Documentation.....: NONE
```

```

-----
Contribution Name.....: DSTAT
  Title.....: Disc Status Report
  File Names.....: 00. Rename Transfer File
                  : 01. 'DSTAT - SUBMISSION FILE
                  : 02. &DSTAT
  Operating System.....: RTE-4B, RTE-6/VM
  Language(s).....: FTN77
  Keywords.....: 1. Disc
                  : 2. Data Mgmt
  External Support Req'd...:
  If Re-submission, Reason.:
Contributor's Name.....: Denny Allain
  Company.....: MCI Telecommunications
  Street.....: 906 N. Bowser Road
  City.....: Richardson
  State/Country.....: Texas USA 75081
  Phone Number.....: (214) 234-3291
  Telex.....: NA

```

```
Program Abstract.....: DSTAT provides a display that gives
                      the user the capacities of a given
                      disc LU and the current utilization
                      in number of files, blocks, and
                      percentage of total available
```

```
Additional Documentation None
```

```

-----
Contribution Name.....: DE
Title.....: Directory End List
File Names.....: 00. Rename Transfer File
                  : 01. 'DE Submission file
                  : 02. &DE
Operating System.....: RTE-4B, RTE-6VM
Language(s).....: Fortran
Keywords.....: 1. Disc
                  : 2. Directory
External Support Req'd...: NONE
If Re-submission, Reason.: Originally printed in Communicator

Contributor's Name.....: Denny Allain
Company.....: MCI Telecommunications
Street.....: 906 N. Bowser Road
City.....: Richardson
State.....: Texas
Country.....: USA
Zip Code.....: 75081
Phone Number...: (214) 234-3291
Telex.....: NA

Program Abstract.....: provides the last n (default = 20)
                       entries in a given disc directory
                       (maximum n = 40).

Additional Documentation....: None
-----

```

```

-----
Contribution Name.....: IDCHK
Title.....: ID Segment Checker
File Names.....: 00. Rename Transfer File
                  : 01. 'IDCHK Submission File
                  : 02. &IDCHK
Operating System.....: RTE-4B, RTE-6VM
Language(s).....: Fortran
Keywords.....: 1. System
                  : 2. ID Segments
External Support Req'd...: None
If Re-submission, Reason.: NA
Contributor's Name.....: Denny Allain
Company.....: MCI Telecommunications
Street.....: 906 N. Bowser Road
City.....: Richardson
State.....: Texas
Country.....: USA
Zip Code.....: 75081
Phone Number...: (214) 234-3291
Telex.....: NA

Program Abstract.....: IDCHK reveals what programs are using
                       the long and short ID segments how
                       many are unused and a disc summary
                       that includes all mounted discs, giving
                       LU#, crn, next track, total # of tracks.

Additional Documentation....: None
-----

```

RELOCATABLE-FILE CROSS-REFERENCER

```

-----
Contribution Name.....: QXREF
Title.....: Relocatable-File Cross-Referencer
File Names.....: 00. Submission transfer file
                  : 01. 'QXREF Submission file
                  : 02. &QXREF Enhanced Ftn7x source
                  : 03. &QXREO Original Ftn7x source
                  : 04. QXDIFF Scm's comparison of the two
                  : 05. %QXREF New-style Relocatable
Operating System.....: RTE-6, A (IVB and others, probably)
Language(s).....: Ftn7x
Keywords.....: 1. Relocatable
                : 2. Cross-Reference
External Support Req'd...: Load with $FNEWF to add CI-file capability.
If Re-submission, Reason.:
Contributor's Name.....: Bill Gibbons/Don Pottenger
Company.....: Mirkheim Systems/Hewlett-Packard Co.
Street.....:
City.....:
State.....:
Country.....:
Zip Code.....:
Phone Number...:
Telex.....:

```

Program Abstract.....: This program reads relocatable files (old-style or new-style "extended" relocatables, or mixed) and prints out information about the modules found in them. QXREF tells which module calls which module, which file each module is found in, and more. This program greatly eases the pain of maintaining a large program, libraries, or any large programming project. The code is a sparkling example of how to manage freespace from Ftn7x, and also demonstrates a non-trivial use of the Ftn7x ENTRY statement.

Additional Documentation....: Run QXREF without any parameters to see a sample runstring. Load it LB or EB and size it up as far as you can go.

Bill Gibbons of Mirkheim Systems wrote the original QXREF. Don Pottenger of HP modified it to allow hierarchical file names and implemented a bug fix that Bill had mentioned. Both files are presented in their entirety, with SCOM's opinion of their differences stored in QXDIFF.

Here's a heavily-edited sample of QXREF output on %QXREF:

QXREF object code cross-reference Mon Sep 10, 1984 6:25 pm

>>> File: %QXREF::X

```

QXREF,4,90      24999-16407 REV.2434 840820
                prog: 5395
                lcom: WIDTH/1 OUTPUT/32 INPUT/1 RECORD/128 NAME/9
                   FREE/3
                ents: QXREF .NFOP .NFCL .NFIN .NFCN .DNOP .DNCL .DNIN
                   .DNCN .DSOP .DSCL .DSIN .DSCN
                exts: .DAD .EIO. .IIO. .FIO. .DTA. .CPM .F6ST .SIO.
                   .LBT .SBT .IBTE .IBST .MBT EJECT FLUSH OUT
                   FETCH NAME INIT OUT BREAK CHECK SCAN INIT SCAN
                   TACK UPPERCASE ALLOCATE SEARCH GET_NAME TAB
                   LOGLU

BREAK_CHECK,7  24999-16407 REV.2220 820518
                prog: 24
                ents: BREAK CHECK
                exts: .F6ST .EXIT IFBRK

```

(cont)

RELOCATABLE-FILE CROSS-REFERENCER (cont)

```

INIT_OUT,7          24999-16407 REV.2220 820518
                    prog: 372
                    lcom: WIDTH/1
                    ents: INIT OUT OUT TAB FLUSH
                    exts: .EIO. .DTA. .ENTR .CPM .SIO. .EXIT .SBST .SCO
                        .SST

EJECT,7            24999-16407 REV.2220 820518
                    prog: 49
*** Labelled common size mismatch: OUTPUT
                    lcom: OUTPUT/15
                    ents: EJECT
                    exts: .EIO. .DTA. .EXIT .SCO
    
```

 Size totals: prog: 7614

Module	Level	Referenced by
/HASH/	3	SEARCH INIT SCAN
ALLOCATE	3	QXREF SEARCH
INIT OUT	3	QXREF TACK
INIT_SCAN	2	QXREF
NEWREC	2	QXREF
QXREF	1	
READ	2	QXREF

Entry	Defined in	Referenced by
.DNCL	QXREF	
ALLOCATE	ALLOCATE	QXREF SEARCH
BREAK CHECK	BREAK CHECK	QXREF
FETCH_NAME	FETCH_NAME	QXREF
OUT	INIT OUT	QXREF TACK
QXREF	QXREF	
TIME	TIME	QXREF
UPPERCASE	UPPERCASE	QXREF

Common block	Defined in	Referenced by
FREE		ALLOCATE INIT_SCAN SEARCH FETCH_NAME INIT_SCAN QXREF
HASH	/HASH/	SEARCH INIT_SCAN
INPUT		READ QXREF
NAME		SEARCH FETCH_NAME GET_NAME QXREF
OUTPUT		EJECT QXREF

Undef External	Referenced by
.BIO.	READ
.CBT	SEARCH
.EIO.	TIME EJECT INIT OUT TACK QXREF
.ENTR	TIME INIT OUT ALLOCATE INIT_SCAN SEARCH NEWREC TACK
.EXIT	UPPERCASE FETCH_NAME GET_NAME READ
.F6ST	TIME EJECT INIT_OUT ALLOCATE TACK UPPERCASE GET_NAME READ
.FFRW	BREAK CHECK QXREF
.FIO.	ALLOCATE GET_NAME READ BREAK_CHECK QXREF
.FIOI	QXREF
.IAY.	QXREF
.IBST	READ
.IBTE	QXREF
MOD	QXREF
RCPAR	TIME
	QXREF

MAC/ICD SUBCHANNEL MODIFIER

```

Contribution Name.....: SC
Title.....: MAC/ICD SubChannel modifier
File Names.....: 00. Rename Transfer File
                  01. 'SC Submission file
                  02. &SC
                  03. &IOPSY
                  04. &WRT
                  05. &TATMP
                  06. "SC4
                  07. "SC6
                  08. "PAPER
Operating System.....: RTE-IVB, 6/VM
Language(s).....: FTN4X, FTN7X (66 rules)
Keywords.....: 1. DISC
                2. SYSTEM TABLES
                3. MODIFY
External Support Req'd...:
If Re-submission, reason.:
Contributor's Name.....: Dan Felman
Company.....: HP/Rockville
Street.....:
City.....: Rockville
State/Country..: Maryland
Phone Number...:
Program Abstract.....:

```

As RTE users needs change, so is often the need to modify allocation of disc space. Often, it arises from the need to read someone else's disc pack, or maybe simply to increase a cartridge's size, or to fix a gen problem.

If you already went through the pains associated with this task, you probably did one of three things; 1, you returned the disc pack with your utmost regards; 2, you regenned your system with a new Track Map Table (TMT) to accomodate the new configuration; or 3, you got a hold of CMM4 or 6 from your friendly SE (sic, this could never happen !!) and patched (and prayed for) the current TMT to look the the way you want it.

Since I and other SEs went through that more than once, I decided that a program was needed to do the dirty work for us. The program I created runs on both RTE-IVB and RTE-6/VM and should help both the sophisticated user as well as the just-initiated in the RTE world.

Additional Documentation

Search %TATMP provided only when loading under RTE-IVB. The RTE-6 system provides that subroutine, and is used by the program.

```

-----
Contribution Name.....: GRPHX
Title.....: Interactive 3-dimensional Graphics part 1 of 2
File Names.....: 00. Rename Transfer File
                  : 01. 'GRPHX Submission file (also 'GRPHY)
                  : 02. *GRPHX
                  : 03. *SP
                  : 04. "A.GRP
                  : 05. $*GRPH
                  : 06. $ttyp
                  : 07. &A.GRP -FTN7X MAIN SOURCE
                  : 08. ***GRP -TRANSFER FILE MERGE/SGMTR/MLLDR
                  : 09. **grph -LIST OF MODULES TO MERGE
                  : 10. CMPMNU -SOFTWARE TEXT COMPOSITOR MENU CFG
                  : 11. GRPHLP -HELP SCREEN FILE
                  : 12. T.HP23 -SAMPLE CONFIGURATION FILE for the
                  : 13. &A.REV -Source
                  : 14. #A.REV - Link Command file
                  : 15. &A.PRI - Source
                  : 16. #A.PRI - Link Command File
                  : 17. "dpl - dummy place holder
                  : 18. &X.BED
                  : 19. #X.BED
                  : 20. &BRFIG
                  : 21. &A.PLF
                  : 22. #A.PLF
                  : 23. &X.FNT
                  : 24. #X.FNT
                  : 25. &X.SKY
                  : 26. #X.SKY
                  : 27. &A.VIW
                  : 28. #A.VIW
                  : 29. VIWMNU
                  : 30. &A.DRA
                  : 31. CRTDEC - CRT declarations
                  : 32. CRTCMN CRT Common
                  : 33. PPOCMN Polygon model common (for graphic
                  : 34. TEKCMN Polygon model common (for graphic
                  : 35. ***CGL -- Transfer file to merge and index
                  : 36. **LCGL -- List of modules in library
                  : 37. %K.RAN -- Library modules ...
                  : 38. %V.DAY
                  : 39. %T.LI3
                  : 40. %T.LI4
                  : 41. %V.NET
                  : 42. %V.SSB
                  : 43. %V.INC
                  : 44. %V.TCK
                  : 45. %T.CIR
                  : 46. %T.TXT
                  : 47. %T.LIN
                  : 48. %T.LIP
                  : 49. %T.RMO
                  : 50. %T.BOX
                  : 51. %T.SKY
                  : 52. %V.R5M
                  : 53. %V.D5P
                  : 54. %V.OPE
                  : 55. %V.CLO
                  : 56. %V.RED
                  : 57. %V.WRT
                  : 58. %V.WR1
                  : 59. %V.ADD
                  : 60. %V.UPD
                  : 61. %V.ATT
                  : 62. %V.IN5
                  : 63. %V.SUT
                  : 64. %V.HTX
                  : 65. %V.LTX
                  : 66. %V.RWR
-----

```

(cont)

```

: 67. %V.CMP
: 68. %V.SAP
: 69. %V.PSU
: 70. %V.WRD
: 71. %V.FRM
: 72. %V.CMG
: 73. %V.EUD
: 74. %ILOGR
: 75. %RWLOG
: 76. %LSTMP
: 77. %SYTIM
: 78. %V.SDS
: 79. %K.INI
: 80. %K.OPR
: 81. %K.ASK
: 82. %K.PTR
: 83. %K.WRT
: 84. %K.IWR
: 85. %K.LWR
: 86. %K.RCW
: 87. %K.FNC
Operating System.....: RTE-IV/IVB/6VM
Language(s).....:
Keywords.....: 1. Graphics
: 2. Interactive
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: James Lemon
Company.....: COMSAT/WSD
: Suite 750
Street.....: 2250 Imperial Highway
City.....: El Segundo
State.....: CA
Country.....: USA
Zip Code.....: 90245
Phone Number...:
Program Abstract.....: See the Proceedings of the 1984 INTEREX
: Conference at San Jose.

```

```

Contribution Name.....: GRPHX
Title.....: Interactive 3-dimensional Graphics part 2 of 2
File Names.....: 00. Rename Transfer File
: 01. 'GRPHY Submission file (see also 'GRPHX)
: 02. %K.LOD
: 03. %K.REC
: 04. %K.SLN
: 05. %K.BLN
: 06. %K.BL2
: 07. %K.SCR
: 08. %M.BMN
: 09. %P.RCH
: 10. %P.WCH
: 11. %P.GET
: 12. %G.WRT
: 13. %CRTNM
: 14. %K.PAK
: 15. %K.FCK
: 16. %K.ICK
: 17. %K.RTJ
: 18. %K.JUS
: 19. %LUINP
: 20. %LEADR
: 21. %FMTIM
: 22. %TMYER

```

(cont)

```
: 23. %CHFMT
: 24. %ISLEN
: 25. %STRIP
: 26. %IPARS
: 27. %BASCI
: 28. %SSMOV
: 29. %BPLOT
: 30. %PTEXT
: 31. %WCMM
: 32. %BORDR
: 33. %PLTYP
: 34. %V.GTI
: 35. %A.CLS
: 36. %V.CLS
: 37. %A.SPL
: 38. %V.GOS
: 39. %RPOFI
: 40. %PSTAT
: 41. %TMOUT
: 42. %NOTIM
: 43. %FLUSR
: 44. %FUSER
: 45. %LIS23
: 46. %IHPLU
: 47. %ENACK
: 48. %IBACI
: 49. %LUINF
: 50. %IEQT
: 51. %OFFME
: 52. %SCEDT
: 53. %CMDST
Operating System.....: RTE-IV/IVB/6VM
Language(s).....:
Keywords.....: 1. Graphics
: 2. Interactive
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: James Lemon
Company.....: COMSAT/WSD
: Suite 750
Street.....: 2250 Imperial Highway
City.....: El Segundo
State.....: CA
Country.....: USA
Zip Code.....: 90245
Phone Number...:
Program Abstract.....: See the Proceedings of the 1984 INTEREX
: Conference at San Jose.
```

Contribution Name.....: M2240
Title.....: HP2240 Exerciser
File Names.....:00. Rename Transfer File
 :01. 'M2240 Submission file
 :02. &M2240 Source
 :03. %M2240 Relocatable
 :04. "M2240 User Manual
 :05. #M2240 Compile and Load File
 :06. *M2240 Loader Transfer File
Operating System.....: RTE-6-VM
Language(s).....: FTN7X
Keywords.....: 1. HPIB
 : 2. Measurement
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: M.Decreton
 Company.....: CEN/SCK
 Street.....: Boeretang 200
 :
 City.....: Mol
 Postal Code...: 2400
 Country.....: Belgium
 Phone Number...:
 Telex.....:

Program Abstract.....:

M2240 is an exerciser program for the HP2240 Measurement and Control Processor allowing easy programming of complex tasks, checking of errors and status read. By interactive dialogue, the operator can first use it as an instruction tool getting acquainted with the different commands, and second as an aid for the development and debugging of measurement and control procedures.

Additional Documentation....: User instructions in "M2240

ELECTRONIC MAILBOX

```
-----
Contribution Name.....: POST
Title.....: Electronic mailbox
File Names.....: 00. Rename Transfer File
                  01. 'POST - Submission File
                  02. %POST
                  03. &POST
                  04. #POST
                  05. %INA
                  06. &INA
                  07. %UGLST
                  08. &UGLST
                  09. #UGLST
Operating System.....: RTE-6
Language(s).....: PASCAL,FTN77
Keywords.....: 1. MAIL
                2. MESSAGE
                3. COMMUNICATIONS
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: J. PARENT
Company.....: National service of metrologie
Street.....: Schoemakerstraat 97
City.....: Delft
State.....:
Country.....: Holland
Zip Code.....: 2628 VK
Phone Number...: 015-569271
Program Abstract.....:
```

This program is an electronic mailbox. When you let it run each time you log in , then you have an excellent mailing system.

With UGLST you can list out all the users with their username, userid, groupid and the filename POST will use for the mail.

Additional Documentation.....:

Contribution Name.....: EXPER
 Title.....: SMALL EXPERT SYSTEM
 File Names.....:00. Rename Transfer File
 :01. 'EXPER Submission file
 :02. &EXPER Source
 :03. %EXPER Relocatable
 :04. "EXPER User Manual
 :05. #EXPER Compile and Load File
 :06. *EXPER Loader Transfer File
 Operating System.....: RTE-6-VM
 Language(s).....: FTN7X
 Keywords.....: 1. Expert Systems
 : 2. AI
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: M.Decreton
 Company.....: GEN/SCK
 Street.....: Boeretang 200
 City.....: Mol 2400
 Country.....: Belgium
 Phone Number...:
 Telex.....:

Program Abstract.....:

EXPER is a small expert system allowing inference calculation through a first order knowledge base (set of rules). It mainly contains a list processor and can perform forward and backward searches in a tree structure. Deduction and Verification can be asked, starting from a basic known situation.

Additional Documentation....: User instructions in 'EXPER

Contribution Name.....: IPRIS
 Title.....: Calculate Moment of Inertia of Prismatic Beam
 matic Beam.
 File Names.....:00. Rename Transfer File
 :01. 'IPRIS Submission file
 :02. "IPRIS documentation file
 :03. &IPRIS source file
 Operating System.....: RTE-IVB
 Language(s).....: FORTRAN IV
 Keywords.....: 1. Engineering
 : 2. Geometry
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: CLAUWAERT Cyriel
 Company.....: Opzoekingscentrum voor de wegenbouw
 Street.....: Woluwedal 42
 City.....: 1200 BRUSSELS
 State/Country.: Belgium
 Phone Number...: 02/767.51.11
 Telex.....:

Program Abstract.....: Program IPRIS is a user-friendly program for the fast calculation of position of neutral axis and moment of inertia of a prismatic beam whether or not with an inserted (steel) beam. It offers the possibility to enter different moduli for the materials used in the section. F.i. concrete sections in a beam that have different ages and consequently different moduli.

Additional Documentation....:

SPEECH SYNTHESIS

```

Contribution Name.....: VOICE
Title.....: SPEECH SYNTHESIS USING HP6942 MULTIPROGRAMMER
File Names.....:00. Rename Transfer File
                  :01. 'VOICE Submission file
                  :02. &VOICE Source
                  :03. %VOICE Relocatable
                  :04. "VOICE User Manual
                  :05. #VOICE Compile and Load File
                  :06. *VOICE Loader Transfer File
                  :07. &INHPV Initialiser for HP6942
                  :08. %INHPV Initialiser for HP6942
                  :09. MWZ MW instruction for HP6942
                  :10. &XFER Download subroutine

Operating System.....: RTE-6-VM
Language(s).....: FTN4X
Keywords.....: 1. Multiprogrammer
               : 2. Speech

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: C.Van Ierschot, H. Marien
Company.....: SCK/CEN
State.....: Boeretang 200
               :
City.....: Mol 2400
State.....:
Country.....: Belgium
Zip Code.....:
Phone Number...:
Telex.....:

```

Program Abstract.....:

VOICE is a speech synthesis program using the HP6942 Multiprogrammer with one memory card, a pacer card and a D/A converter card. The speech is produced from individual phonemes stored as discrete sequential voltages.

Additional Documentation....: User instructions in 'VOICE

VOICE

J095

SPEECH SYNTHESIS

Contribution Name.....: VOICE
Title.....: SPEECH SYNTHESIS USING HP6942 MULTIPROGRAMMER
File Names.....:00. Rename Transfer File
 :01. 'VOICE Submission file
 :02. &VOICE Source
 :03. %VOICE Relocatable
 :04. "VOICE User Manual
 :05. #VOICE Compile and Load File
 :06. *VOICE Loader Transfer File
 :07. &INHPV Initialiser for HP6942
 :08. %INHPV Initialiser for HP6942
 :09. MWZ MW instruction for HP6942
 :10. &XFER Download subroutine
Operating System.....: RTE-6-VM
Language(s).....: FTN4X
Keywords.....: 1. Multi-program
 : 2. Speech
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: C.Van Ierschot, H. Marien
 Company.....: SCK/CEN
 State.....: Boeretang 200
 City.....: Mol 2400
 Country.....: Belgium

Program Abstract.....:

VOICE is a speech synthesis program using the HP6942 Multiprogrammer with one memory card, a pacer card and a D/A converter card. The speech is produced from individual phonemes stored as discrete sequential voltages.

Additional Documentation....: User instructions in 'VOICE

M6942

J096

HP6942 EXERCISER

Contribution Name.....: M6942
Title.....: HP6942 Exerciser
File Names.....:00. Rename Transfer File
 :01. 'M6942 Submission file
 :02. &M6942 Source
 :03. %M6942 Relocatable
 :04. "M6942 User Manual
 :05. #M6942 Compile and Load File
 :06. *M6942 Loader Transfer File
Operating System.....: RTE-6-VM
Language(s).....: FTN7X
Keywords.....: 1. Multi-program
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: M.Decreton
 Company.....: CEN/SCK
 Street.....: Boeretang 200
 City.....: Mol 2400
 Country.....: Belgium

Program Abstract.....:

M6942 is an exerciser program for the HP6942 Multiprogrammer allowing easy programming of complex tasks, checking of errors and status read. By interactive dialogue, the operator can first use it as an instruction tool getting acquainted with the different commands, and second as an aid for the development and debugging of measurement and control procedures.

Additional Documentation....: User instructions in 'M6942

```

-----
Contribution Name.....:M6942
Title.....:HP6942 Exerciser
File Names.....:00. Rename Transfer File
                :01. 'M6942 Submission file
                :02. &M6942 Source
                :03. *M6942 Relocatable
                :04. "M6942 User Manual
                :05. #M6942 Compile and Load File
                :06. *M6942 Loader Transfer File

Operating System.....: RTE-6-VM
Language(s).....: FTN7X
Keywords.....: 1. Multiprogrammer
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: M. Decreton
Company.....: CEN/SCK
Street.....: Boeretang 200
                :
City.....: Mol 2400
State.....:
Country.....: Belgium
Zip Code.....:
Phone Number...:
Telex.....:

```

Program Abstract.....:

M6942 is an exerciser program for the HP6942 Multiprogrammer allowing easy programming of complex tasks, checking of errors and status read. By interactive dialogue, the operator can first use it as an instruction tool getting acquainted with the different commands, and second as an aid for the development and debugging of measurement and control procedures.

Additional Documentation....: User instructions in 'M6942

DATA DISTRIBUTION TO/FROM IBM IN A DS ENVIRONMENT

Contribution Name.....:RJESY
Title.....:Data distribution to/from IBM in a DS environment
File Names.....:00. Rename Transfer File
 :01. 'RJESY Submission file
 :02. &RJESY Source code
 :03. &RJECL Source code
 :04. &RJERC Source code
 :05. &RJESP Source code
 :06. &RJEPM Source code
 :07. %RJESY Relocatable of &RJESY
 :08. %RJECL Relocatable of &RJECL
 :09. %RJERC Relocatable of &RJERC
 :10. #RJEHL Command file for RJE
 :11. \$RJELB Library
 :12. "RJESY User and installation guide.
Operating System.....:RTE-IVB/(6VM ?)
Language(s).....:FTN4X
Keywords.....: 1. RJE
 : 2. IBM
 : 3. DS
 : 4. Data Comm
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....:Renaat Grauwels
 Company.....:University Hospital Gasthuisberg
 Street.....:Herestraat 49
 City.....:Leuven
 Country.....:BELGIUM
 Zip Code.....:3000
 Phone Number...:(016) 215764
Program Abstract.....: This set of programs will send and
 receive JOB's to and from an IBM computer thru the use of RJE.
 The data to be transmitted or the destination of the data
 to be received may be anywhere in your DS network.
 The user need not have any knowledge about RJE or DS-1000.
 It will only work in an DS-1000 environment !

BRUNO COMPATIBLE PLOT PROGRAM

```
-----
Contribution Name.....: BNOAL
Title.....: Bruno compatible plot program
File Names.....:00. Rename Transfer File
                  :01. 'BNOAL Submission file
                  :02. &BNOAL Source
                  :03. %BNOAL Relocatable
                  :04. &BNOSB Subroutines
                  :05. %BNOSB Relocatable
                  :06. "BNOAL Description
                  :07. #BNOAL Compile and load file
                  :08. *BNOAL loader transfer file
                  :09. "BNAS1 Bruno figure file # 1
                  :10. "BNAS2 Bruno figure file # 2
Operating System.....: RTE-6-VM
Language(s).....: FTN7X
Keywords.....: 1. Graphics
External Support Req'd...: BRUNO
If Re-submission, Reason.:
Contributor's Name.....: M.Decreton
Company.....: CEN/SCK
Street.....: Boeretang 200
City.....: Mol 2400
Country.....: Belgium
Phone Number...:
Telex.....:
```

Program Abstract.....:

BNOAL : plotprogram creating BRUNO compatible 'figure file'

TOOLKIT FOR STANDARD FILE HANDLING

```

-----
Contribution Name.....: TOOLS
Title.....: Toolkit for standard data file (SDF) handling
File Names.....:00. Rename Transfer File
                  :01. 'TOOLS Submission file
                  :02. 'SDFDC documentation on SDF
                  :03. 'PRGDC documentation on programs
                  :04. 'PLTDC documentation on plot programs
                  :05. &INIFL
                  :06. &EXPFL
                  :07. &CYPFL
                  :08. &COMFL
                  :09. &REDFL
                  :10. &LISFL
                  :11. &SKPFL
                  :12. &MODFL
                  :13. &WRDFL
                  :14. &AVRFL
                  :15. &MTPFL
                  :16. &PCPRR
                  :17. &PLCEL
                  :18. &PLSDF
                  :19. &PLTEX
                  :20. &PLMLS
                  :21. &SUBR1
                  :22. PCPRR1
                  :23. PCPRRF
                  :24. COBDAT
                  :25. ITXDAT
                  :26. &SUBR2
Operating System.....: RTE-6-VM
Language(s).....: FTN7X
Keywords.....: 1. Tools
               : 2. Files
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: M.Decreton
Company.....: CEN/SCK
Street.....: Boeretang 200
City.....: 2400 Mol
State.....:
Country.....: Belgium
Zip Code.....:
Phone Number...:
Telex.....:
Program Abstract.....:
This toolkit allows easy handling of measured data in standard data
files (SDF) : file editing, graphical outputs, measurement procedures...

```

DGL DEVICE HANDLER FOR THINKJET

```

-----
Contribution Name.....: D2225
Title.....: DGL device handler for ThinkJet
File Names.....:00. Rename Transfer File
                  :01. 'D2225 submit file
                  :02. &D2225 programme source
                  :03. #D2225 programme relocatable

Operating System.....: RTE-6/VM maybe 4B and A
Language(s).....: MACRO
Keywords.....: 1. Graphics
                : 2. Driver
External Support Req'd...: GRAPHICS 1000 II VERSION 2.0
If Re-submission, Reason.:
Contributor's Name.....: Michael Morgan and Wendy Green
Company.....: Royal Postgraduate Medical School
Street.....: Du Cane Road

                :
City.....: LONDON
State.....:
Country.....: GREAT BRITAIN
Zip Code.....: W12 0HS
Phone Number...: 01 743 2030 ext 239
Telex.....:
Program Abstract.....:

```

This is the MACRO source code for a DGL device handler for Version 2.0 of DGL (does not use RTRAN). This device handler has been copied from \$D0026 (2608a line-printer) and is technically still the copyright of HP. It can only be used if you already have a copy of GRAPHICS-1000 II version 2.0 as \$DIDD is required.

Additional Documentation.....:

GO BACK ONE STEP IN THE DIRECTORY

```

-----
Contribution Name.....: WDUP
Title.....: Go back one step in the directory
File Names.....:00. Rename Transfer File
                  :01. 'WDUP - Submission File
                  :02. #WDUP
                  :03. &WDUP
                  :04. #WDUP

Operating System.....: RTE-6(ci), RTE-A
Language(s).....: PASCAL
Keywords.....: 1. DIRECTORY
                : 2. CI
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: J. PARENT
Company.....: National service of metrologie
Street.....: Schoemakerstraat 97

                :
City.....: Delft
State.....:
Country.....: Holland
Zip Code.....: 2628 VK
Phone Number...: 015-569271
Program Abstract.....:

```

This program let you go one step higher in the directory tree. So you don't have to type in the complete working directory again.

Additional Documentation.....:

```

-----
Contribution Name.....: EPLOT
Title.....: Interactive plotting program
File Names.....: 00. Rename Transfer File
                  01. 'EPLOT - Submission File
                  02. %EPLOT
                  03. &EPLOT
                  04. #EPLOT
                  05. %EPLTR
                  06. &EPLTR
                  07. #EPLTR
Operating System.....: RTE-6, RTE-A
Language(s).....: PASCAL
Keywords.....: 1. PLOTTING
                2. GRAPHICS
                3. INTERACTIVE
External Support Req'd...: DGL
If Re-submission, Reason.:
Contributor's Name.....: J. PARENT
Company.....: National service of metrologie
Street.....: Schoemakerstraat 97
City.....: Delft
State.....:
Country.....: Holland
Zip Code.....: 2628 VK
Phone Number...: 015-569271

```



Program Abstract.....:

This is an easy interactive plotting program on graphics terminals and with the datafile you can transfer your plot with the EPLTR program to a plotter.

Additional Documentation.....:

```

-----
Contribution Name.....: SCAN
Title.....: Memory occupation
File Names.....: 00. Rename Transfer File
                  01. 'SCAN - Submission File
                  02. %SCAN
                  03. &SCAN
                  04. #SCAN
Operating System.....: RTE-6
Language(s).....: FTN77
Keywords.....: 1. SYSTEM
                2. MEMORY
                3. ANALYZER
External Support Req'd...:
If Re-submission, Reason.: SCAN now for 44 partitions
Contributor's Name.....: J.M. van Dongen
Company.....: National service of metrologie
Street.....: Schoemakerstraat 97
City.....: Delft
State.....:
Country.....: Holland
Zip Code.....: 2628 VK
Phone Number...: 015-569271

```

Program Abstract.....:

This program gives you an overview of the memory occupation and what programs are running on a particular moment.

Additional Documentation.....:

ELECTRONIC AGENDA

Contribution Name.....: AGEN
 Title.....: Electronic agenda
 File Names.....: 00. Rename Transfer File
 : 01. 'AGEN - Submission File
 : 02. %AGEN
 : 03. &AGEN
 : 04. #AGEN
 : 05. %MAGEN
 : 06. &MAGEN
 : 07. #MAGEN
 : 08. %SLEEP
 : 09. &SLEEP
 : 10. RRAGEN
 Operating System.....: RTE-6, RTE-A
 Language(s).....: PASCAL,FTN77
 Keywords.....: 1. CALENDAR
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: J. PARENT
 Company.....: National service of metrologie
 Street.....: Schoemakerstraat 97
 :
 City.....: Delft
 State.....:
 Country.....: Holland
 Zip Code.....: 2628 VK
 Phone Number...: 015-569271

Program Abstract.....:
 This program is an electronic agenda on your terminal for a whole year
 and this source is for 12 users, but it is easy to expand it.
 Runstring: RU,AGEN,1,1,6
 There is also a program to make a file for a new year : MAGEN.
 And the datafile itself which is called RRAGEN. (The program expects it
 on cartridge DB).

Additional Documentation.....:

OVERVIEW OF DIRECTORIES

Contribution Name.....: TREE
 Title.....: Overview of directories
 File Names.....: 00. Rename Transfer File
 : 01. 'TREE - Submission File
 : 02. %TREE
 : 03. &TREE
 : 04. #TREE
 Operating System.....: RTE-6(ci), RTE-A
 Language(s).....: PASCAL
 Keywords.....: 1. DIRECTORY
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: J. PARENT
 Company.....: National service of metrologie
 Street.....: Schoemakerstraat 97
 :
 City.....: Delft
 State.....:
 Country.....: Holland
 Zip Code.....: 2628 VK
 Phone Number...: 015-569271

Program Abstract.....:
 This program gives you an overview of all (sub)directories on your
 system and/or of an (sub)tree.
 RU,TREE,{<outlu>},{<filedescriptor>}
 Additional Documentation.....:

```

-----
Contribution Name.....: DIMPN
  Title.....: Array Initializing Program
  File Names.....:00. Rename Transfer File
                  :01. 'DIMPN  Submission file
                  :02. &DIMPN  - Source
                  :03. %DIMPN  - Relocatable
                  :04. &TESTD  - Test file
                  :05. &PALI  - Parameter list for &TESTD
  Operating System.....: RTE-M, RTE-4B
  Language(s).....: FTN4
  Keywords.....: 1. Array
                  : 2. Initialize
                  : 3. Pre-processor

  External Support Req'd...:
  If Re-submission, Reason.:
Contributor's Name.....: Ignat Stanev
  Company.....: Telecommunications Research Institute
  Street.....: 8, Hajdushka Poliana Str.
  City.....: Sofia
  Country.....: BULGARIA
  Zip Code.....: 1612
  Phone Number...: 870739
  Telex.....: 22346 NIIS BG
Program Abstract.....:

```

DIMPN is a program we use to initialize arrays in FORTRAN programs. The array dimensions are written in the input file as four-character ASCII strings. It is assumed that each string begins with letters QZ in order not to mix it with other symbolic names in the program. The ASCII strings (3-th and 4-th characters) and the corresponding actual array dimensions are arranged in a parameter list with FORTRAN format (2A1,1X,4A1), i.e. the array dimension is up to four digits. DIMP searches each string in the parameter list and exchanges it in the output file with the corresponding actual dimension.

DIMPN asks for the parameter list name (file name), the input file name and the output file name. The output file is created by DIMPN and is used then as a source file.

To see how DIMPN operates use the supplied test data. Perform the following:

```

RU,DIMPN
give parameter list name: &PALI
give input file name: &TESTD
give output file name: [name]

```

Compare all DIMENSION statements in &TESTD with those in [name].

Additional Documentation....:

AUTOMATIC COMPILING/EDITING/LINKING

```

Contribution Name.....: PASCAL
Title.....: Automatic compiling/editing/linking
File Names.....: 00. Rename Transfer File
                  01. 'PASCAL - Submission File
                  02. &PASCAL
                  03. &PASCAL
                  04. #PASCAL
Operating System.....: RTE-6(ci), RTE-A
Language(s).....: PASCAL
Keywords.....: 1. PRE-PROCESSOR
               2. PASCAL
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: J. PARENT
Company.....: National service of metrologie
Street.....: Schoemakerstraat 97
City.....: Delft
State.....:
Country.....: Holland
Zip Code.....: 2628 VK
Phone Number...: 015-569271
Program Abstract.....:

```

This programs compiles pascal programs, if there is an error it automatically returns to the editor. When there are no errors then it automatically links.(if there is no linkcommandfile it goes to the editor and asks you to make one).

Additional Documentation.....:

FORTRAN SOURCE PREPROCESSOR

```

Contribution Name.....: PRFTN
Title.....: FORTRAN SOURCE PREPROCESSOR
File Names.....: 00. Rename Transfer File
                  01. 'PRFTN Submission file
                  02. &PRFTN
                  03. #PRFTN
Operating System.....: RTE IVB, 6/VM
Language(s).....: PASCAL
Keywords.....: 1. FORTRAN
               2. Pre-processor
External Support Req'd...: NONE
If Re-submission, Reason.:
Contributor's Name.....: DR.-ING. CHR. SCHMID
Company.....: RUHR-UNIVERSITY BOCHUM
Street.....: P.O.BOX 102148 / IC3/141
City.....: D-4630 BOCHUM 1
Country.....: F.R. GERMANY
Phone Number...: TEL. (0234) 700-4093
                  Telex 0825860
Program Abstract.....:
PROCESSING OF ANY SOURCE FILES SUBSTITUTING EXPRESSIONS
IN '<...>' BY A CONSTANT.
Additional Documentation.....:
USER INFORMATION IS INCLUDED AT THE BEGINNING OF THE SOURCE FILE.

```

FORMATTED DOCUMENTATION PROGRAM

```

-----
Contribution Name.....: UDOCU
Title.....: FORMATTED DOCUMENTATION PROGRAM
File Names.....:00. Rename Transfer File
                 :01. 'UDOCU - SUBMISSION FILE
                 :02. &UDOCU - SOURCE PROGRAM
                 :03. %UDOCU - RELOCATABLE FILE
                 :04. $UDOCU - EDITOR-CREATED DATA FILE
                 :05. "UDOCU - OUTPUT FILE (UDOCU MANUAL)

Operating System.....: RTE-IVB
Language(s).....: FORTRAN IV
Keywords.....: 1. DOCUMENTATION
               : 2. FORMATTING

External Support Req'd...: NONE
If Re-submission, Reason.:

Contributor's Name.....: DICK JOHNSTON & TERESA OWEN
Company.....: TRINITY FORGE, INC.
Street.....: 947 TRINITY DRIVE

                CITY.....: MANSFIELD
                State.....: TX
                Country.....: USA
                Zip Code.....: 76063
                Phone Number...: (817) 477-2697
                Telex.....: 794820

Program Abstract.....: THIS PROGRAM USES AN EDITOR-CREATED
DATA FILE TO PRODUCE FORMATTED DOCUMENTATION. IN THE SAMPLE
CASE PROVIDED, FILE '$UDOCU' PRODUCES THE OUTPUT FOUND IN FILE
'OUTPUT'. TO OBTAIN FORMATTED DOCUMENTATION ON THE PROGRAM
'UDOCU', RUN THE FOLLOWING COMMAND.
RU,UDOCU,LU,XX,XX,XX,CR

```

ISSUE FMGR COMMANDS FROM A PROGRAM

```

-----
Contribution Name.....: FCOM
Title.....: Issue FMGR commands from a program
File Names.....:00. Rename Transfer File
                 :01. 'FCOM Submission file
                 :02. &FCOM - FTN4X

Operating System.....: RTE-IV, RTE-6/VM with FMGR file system
Language(s).....: FTN4X (FTN7X)
Keywords.....: 1. FMGR
               : 2. PROCEDURES

External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:

Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330

                City.....: N-1322 HOEVIK
                State.....:
                Country.....: NORWAY
                Zip Code.....:
                Phone Number...: 47 / 2 / 477060
                Telex.....:

Program Abstract.....:

```

FCOM is a program that enables you to issue FMGR commands from a program by calling the routines COMND and CFINI from contribution IVLIB. The routines take up very little space in your program. FCOM should be loaded permanently if used. FCOM is intended for use with the FMGR file system only.

Additional Documentation....: See the routine COMND in IVLIB.

```

Contribution Name.....: IVLIB
Title.....: General Purpose Library
File Names.....:00. Rename Transfer File
                  :01. 'IVLBR  Submission file
                  :02. &IVLF1 - FTN4x compatible routines
                  :03. &IVLF2 - FTN4x compatible routines
                  :04. &IVLBA - ASMB compatible routines
                  :05. &IVLB7 - FTN7X routines
                  :06. &IVLBM - MACRO routines
                  :07. >DDATA - Include file
                  :08. !IVLIB - Command file
                  :09. *IVLIB - Merge commands
                  :10. 'IVLIB - Documentation (WOLF format)
                  :11. 'IVHED -      "
                  :12. 'IVIND -      "
                  :13. 'IVLB7 -      "
                  :14. 'IVLBA -      "
                  :15. 'IVLBF -      "

```

```

Operating System.....: RTE-IV, RTE-6/VM.
                      Most routines (but not all) will
                      work in RTE-A.

```

```

Language(s).....: FTN7X, ASMB, MACRO
Keywords.....: 1. Library
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
City.....: N-1322 HOEVIK
State.....:
Country.....: NORWAY
Zip Code.....:
Phone Number...: 47 / 2 / 477060
Telex.....:

```

```

Program Abstract.....:

```

This library has been collected and developed over several years. Some of the routines have been taken from other CSL/1000 contributions. Using IVLIB may ease programming and give you smaller and more efficient programs. IVLIB is required by some of the other programs contributed by me.

In order to use the routine PROGRAM, program APLDR may be required. If you use DS/1000, use HP's APLDR, otherwise use the program contributed with WOLF.

```

Additional Documentation....: Use the transfer file !IVLIB
                              to create the library.

```

BASIC PLOTTING ROUTINES

```

-----
Contribution Name.....: Nyquist plot
Title.....: BASIC plotting routines
File Names.....:00. Rename Transfer File
                :01. 'BPLOT Submission file
                :02. ANV21 Nyquist plot
                :03. ANV41 Bode plot           are BASIC programs
                :04. ANV6 Multi Bode plot
                :05. ANV10 Statistical plot
                :06. ALL01
                :07. ALL05 are data files for ANV21,ANV41,ANV6
                :08. All08B is a data file for ANV10
                :09. &TABLE is the subroutine table for BASIC
                :10. &PLOTU is a FORTRAN routine
                for graphic initialization from BASIC
                :11. &DMPLT is a FORTRAN routine
                for HPiB graphic dump of 2648a graphic screen
                :12. &ANVSO is a FORTRAN program
                for Solartron 1250 Frequency response analyzer
                :13. &ANVGA is a FORTRAN program
                for the control of an intelligent data acquisition peripheral
Operating System.....: basic
Language(s).....: BASIC
Keywords.....: 1. Engineering
                2. Mathematics
                3. Plotting

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: CESARE PAGURA
Company.....: I.P.E.L.P. CNR
Street.....: CORSO STATI UNITI 4
City.....: 35100 PADOVA
Country.....: ITALY
Phone Number...:
Program Abstract.....:
    
```

The BASIC subroutine table generation can give some problems:

DO NOT USE RTETG TRANSFER FILE !!!

Execute an interactive loading session like this for %BA00

```

/LOADR: OP,RT
/LOADR: SZ,19
/LOADR: RE,%BA00
%BA00 24042 24072
/LOADR: RE,%DLTBL see GRAPHIC 1000 manual !
/LOADR: RE,%PLOTU
/LOADR: SEARCH,%GPS %GPS is the GRAPHIC 1000 library
... ..
    
```

etc. etc.

For the segment %BA01-02-03 etc. use the same procedure :

```

/LOADR: OP,RT
/LOADR: SZ,19
/LOADR: RE,%BA0x
    
```

Additional Documentation,....:

PROGRAMMATIC INTERFACE FOR HP27201A VOICE SPEECH SYNTHESIZER

```

-----
Contribution Name.....: VTALK
Title.....: PROGRAMMATIC INTERFACE FOR HP27201A VOICE SPEECH SYNTHESIZER
File Names.....: 00. Rename transfer file
                  01. 'VTALK Submission file
                  02. &VTALK Source code
                  03. %VTALK Relocatable for VTALK
                  04. #VTALK LINK command file for VTALK
                  05. &VCHEK Program to announce down lu's
                  06. %VCHEK Relocatable for VCHEK
                  07. #VCHEK LINK command file for VCHEK
                  08. &VSUBS Source - support library
                  09. $VSUBS Relocatable - support library

Operating System.....: RTE-6VM/A
Language(s).....: FTN4X & ASMB
Keywords.....: 1. Speech
               2. Help

External Support Req'd...: IMAGE/1000
If Re-submission, Reason.:

Contributor's Name.....: Alan R. Whitney
Company.....: MIT Haystack Observatory
Street.....: Off Rt. 40
City.....: Westford
State.....: Massachusetts
Country.....: USA
Zip Code.....: 01886
Phone Number...: (617) 692-4764

Program Abstract.....:
VTALK is a program interface to the HP27201A Speech Output Module
and the accompanying HP27203A Speech Library. The goal of VTALK
is to provide a friendly interface to the speech library so that
by simply issuing the command
:RU,VTALK,<phrase>
the synthesizer will speak the specified phrase, so long as words
within the phrase are within the speech library. VTALK also intercepts
positive and negative integers from -999,999,999 to +999,999,999
and speaks them in standard format.
The Hp27201A Speech Output Module is supported by a standard
RS-232 Interface and driver (HP 12966 and DVR05 or any Mux card.)
VCHEK is a demonstration program which scans all system lu's and
announces any down lu's. If a program is waiting on a down lu,
the name of the program is also stated. VCHEK includes subroutine
SPEAK which is a simple programmatic interface to the synthesizer.
The HP27203A Speech Library uses an IMAGE/1000 data base in which
to store voice information, plus some HP support utility programs for speaking
and creating new words.
We have found the HP27201A speech synthesizer to be very valuable
when used with the simple programmatic interfaces provided here.

Additional Documentation....: See notes in files &VTALK and &VCHEK

```

TEXT EDITOR

Contribution Name.....: TEXED
 Title.....: Text Editor
 File Names.....: 00. Rename Transfer File
 : 01. 'TEXED Submission file
 : 02. &TEXED
 : 03. %TEXED
 : 04. #TEXED
 : 05. \$TEXED Library
 : 06. "TEXED Documentation
 : 07. &CAPS
 : 08. %CAPS
 : 09. &TXDNF
 : 10. %TXDNF
 : 11. &JCBT
 : 12. %JCBT
 : 13. &SFILL
 : 14. %SFILL
 : 15. &SMOVE
 : 16. %SMOVE
 : 17. &SPUT
 : 18. %SPUT
 : 19. &SGET
 : 20. %SGET
 : 21. &P2680
 : 22. &QSBCM
 : 23. [TXDNF

Operating System.....:
 Language(s).....:
 Keywords.....: 1. Text
 : 2. Editor
 : 3. Word Processing

External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: JOHNSON & HASSELL
 Company.....:
 Street.....:
 City.....:
 State/Country...:
 Phone Number...:
 Telex.....:

Program Abstract.....:
 TEXED is a program designed to facilitate document preparation
 by providing a convenient method of formatting unformatted text.
 TEXED performs a variety of document formatting functions.
 These include:

- Margin alignment
- Indentation
- Pagination
- Chapter, section, and subsection numbering
- Headings and footings
- Table of Contents
- Index

This program is an adaptation
 of various versions that have been around more than 15 years. Within HP,
 the names RUNIT, RUNEM and RUNOF have been used for basically the same
 program. This version (TEXED) is based on the core program developed by
 Jim Bridges and Bruce Stowell back in 1979.
 Additional Documentation.....:

TERMINAL EMULATION WITH APPLE IIC

Contribution Name.....:ARF
 Title.....: TERMINAL EMULATION WITH APPLE IIC
 File Names.....:00. Rename Transfer File
 :01. 'ARF Submission file
 :02. &ARF contains all of the following files
 ARF.3.TEXT PASCAL SOURCE CODE (APPLE)
 ARF.4.TEXT PASCAL SOURCE CODE (APPLE)
 ARFASM.TEXT ASSEMBLY SOURCE CODE (APPLE)
 ARFASM.2.TEXT ASSEMBLY SOURCE CODE (APPLE)
 &RCVF FORTRAN SOURCE CODE
 &SNDF FORTRAN SOURCE CODE
 &VLMAN FORTRAN SOURCE LIBRARY
 &LIBRY FORTRAN SOURCE LIBRARY
 &LSBYT ASSEMBLY SOURCE
 TARFE EXTENDED DOCUMENTATION FILE
 Operating System.....: RTE IV B APPLE UCSD PASCAL 1.2
 Language(s).....: FORTRAN , PASCAL , ASSEMBLY
 Keywords.....: 1. Data Comm
 : 2. Terminal
 : 3. Emulator
 : 4. Apple
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....:DE MOOR MARK
 Company.....:RUCA REKENCENTRUM
 Street.....:GROENENBORGERLAAN , 171
 City.....:ANTWERPEN
 Country.....:BELGIUM
 Zip Code.....:2050
 Phone Number...:03 2180320
 Program Abstract.....:THIS PACKAGE CONTAINS A SET OF HP-FORTRAN
 PROCEDURES AND A SET OF APPLE II PASCAL AND ASSEMBLY PROCEDURES.
 THE APPLE MICRO IS USED AS A TERMINAL AND CAN RECEIVE OR SEND TEXT FILES
 (TYPE > 2) FROM/TO THE HP-HOST THROUGH AN ASYNCHRONOUS LINE.
 Additional Documentation....: all files are grouped into file &ARF
 and have to be separated before use.

DIRECTORY CAPACITY INFORMATION

Contribution Name.....: DIRSIZE
 Title.....: Directory capacity information
 File Names.....:00. Rename Transfer File
 :01. DIRSIZE.SBMT Submission file
 :02. DIRSIZE.FTN Source
 for FMGR compatib : rn to &DIRSI
 :03. DIRSIZE.REL relocatable
 for FMGR compatib : rn to &DIRSI
 :04. DIRSIZE.LOD link command file
 for FMGR compatib : rn to #DIRSI
 Operating System.....: RTE-A & RTE-6/VM (>C.83)
 Language(s).....: FTN7X
 Keywords.....: 1. CI
 : 2. Directory
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Seppo Pietikainen
 Company.....: HP / Finland
 Street.....:
 City.....:
 State.....:
 Country.....: FINLAND
 Program Abstract.....:
 Program DIRSIZE will print some information about a file-directory
 specified in the runstring (optionally subdirectories included).
 try 'ru dirsize'

```
-----
Contribution Name.....: FONT & JULIAN
Title.....: SWEDISH-FINNISH AGP FONTS; TIME-RELATED ROUTINES
File Names.....:00. Rename Transfer File
:01. FONT.SBMT      Submission file
:02. ATACHERROR.FTN
      for FMGR compatib : rn to &ATAER
:03. ATTACHTOSESSION.FTN
      for FMGR compatib : rn to &ATASE
:04. CLGOFERROR.FTN
      for FMGR compatib : rn to &CLGOF
:05. CLGONERROR.FTN
      for FMGR compatib : rn to &CLGON
:06. DAYTIME TO TEXT.FTN
      for FMGR compatib : rn to &DAYTI
:07. DFRACT.FTN
      for FMGR compatib : rn to &DFRAC
:08. FRACT.FTN
      for FMGR compatib : rn to &FRACT
:09. FRJULI.FTN
      for FMGR compatib : rn to &FRJUL
:10. TAKE TIME.FTN
      for FMGR compatib : rn to &TAKTI
:11. TOJUL.FTN
      for FMGR compatib : rn to &TOJUL
:12. TOJULI.FTN
      for FMGR compatib : rn to &TJULI
:13. WEEKDAY.FTN
      for FMGR compatib : rn to &WEEKD
:14. FONTO1.DAT
      for FMGR compatib : rn to !FONT1
:15. FONTO2.DAT
      for FMGR compatib : rn to !FONT2
:16. FONTO3.DAT
      for FMGR compatib : rn to !FONT3
:17. FONTO4.DAT
      for FMGR compatib : rn to !FONT4
:18. FONTO5.DAT
      for FMGR compatib : rn to !FONT5
:19. FONTO6.DAT
      for FMGR compatib : rn to !FONT6

Operating System.....: RTE-A VC+
Language(s).....: FORTRAN 77
Keywords.....: 1. Font
               2. Time

External Support Req'd...:
If Re-submission, Reason.:

Contributor's Name.....: Juhani Kyyr
Company.....: IMATRAN VOIMA OY / Central laboratory
Street.....: Viikintie 3

City.....: SF-00560 Helsinki
State.....:
Country.....: Finland
Zip Code.....:
Phone Number...:
Telex.....:

Program Abstract.....: AGP font files Swedish/Finnish character set
                       True Julian Day number (JD) functions
                       & some other subroutines.
                       Subroutines & functions are fully?? documented.

Additional Documentation.....:
```

E

EDIT UTILITY WITH CI FILE MASK CAPABILITY

J118

```

-----
Contribution Name.....: E
Title.....: EDIT utility with CI file mask capability
File Names.....:00. Rename Transfer File
                  :01. E.SBMT Submission file
                  :02. E.FTN - Source
                  :          - for FMGR compatib : rn to &E
                  :03. E.HELP - Help file
                  :          - for FMGR compatib : rn to !E
Operating System.....: RTE-6/VM, RTE-A with CI file system
Language(s).....: FTN7X
Keywords.....: 1. Editor
                2. Scheduling
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
                City.....: N-1322 HOEVIK
                State.....:
                Country.....: NORWAY
                Zip Code.....:
                Phone Number...: 47 / 2 / 477060
                Telex.....:

```

Program Abstract.....:
 This is a program for automatic scheduling of EDIT using the CI file masking feature. Several edits can be done using only one command. E accepts only type 4 files.

Additional Documentation....: See the heading of the source file and the E help file.

CLINK

CONDITIONAL LINK

J119

```

-----
Contribution Name.....: CLINK
Title.....: Conditional LINK
File Names.....:00. Rename Transfer File
                  :01. CLINK.SBMT Submission file
                  :02. CLINK.FTN - Source
                  :          - for FMGR compatib : rn to &CLINK
Operating System.....: RTE-6/VM, RTE-A with CI file system
Language(s).....: FTN7X
Keywords.....: 1. LINK
                2. CI
                3. UTILITY
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
                City.....: N-1322 HOEVIK
                State.....:
                Country.....: NORWAY
                Zip Code.....:
                Phone Number...: 47 / 2 / 477060
                Telex.....:

```

Program Abstract.....:
 CLINK is used to check if a program file needs relinking. If it does, LINK is scheduled to relink the program. Use is identical to the use of LINK, except that the program name must be the first parameter. If a directory is not specified, the default directory PROGRAMS is checked.

Additional Documentation....:

```

-----
Contribution Name.....: DUF1
Title.....: Dump File program
File Names.....:00. Rename Transfer File
:01. DUF1.SBMT Submission file
:02. DUF1.FTN - Main
      for FMGR compatib : rn to &DUF1
:03. DUSUB.FTN - Subroutine
      for FMGR compatib : rn to &DUSUB
:04. DUF1.LOD - LINK commands
      for FMGR compatib : rn to #DUF1

Operating System.....: RTE-IV, RTE-6/VM, RTE-A
Language(s).....: FTN7X
Keywords.....: 1. Softkeys
              2. Dump
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
              :
City.....: N-1322 HOEVIK
State.....:
Country.....: NORWAY
Zip Code.....:
Phone Number...: 47 / 2 / 477060
Telex.....:
Program Abstract.....:

```

With DUF1 you may programmatically dump files using one subroutine call (DUMPF). The FMP routines are not loaded with the program. Specially useful for dumping menus (may be created with FORM), softkey files etc. to the screen.

The routine DUMPF is part of IVLIB, which is a separate contribution. DUF1 works with the CI file system. For those who haven't upgraded yet, re-writing should be easy.

Additional Documentation....: See the routine DUMPF in IVLIB.

```

-----
Contribution Name.....: CPLK
Title.....: Automatic Compile and Link procedure
File Names.....:00. Rename Transfer File
:01. CPLK.SBMT Submission file
:02. CPLK.FTN
      for FMGR-CI compatib : rn to &CPLK

Operating System.....: RTE-A, RTE-6
Language(s).....: FORTRAN
Keywords.....: 1. Link
              2. Procedures
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: DREZE Richard
Company.....: U.C.L. - Laboratoire du Genie Civil
Street.....: Place du Levant, 1
City.....: B-1348 LOUVAIN-LA-NEUVE
Country.....: Belgium
Phone Number...: 010/432112
Program Abstract.....: CPLK is a system utility easy compile and
Additional Documentation....: link procedure.
                          see source file

```

```

-----
Contribution Name.....: FERR
Title.....: FORTRAN error explanation
File Names.....:00. Rename Transfer File
                :01. FERR.SBMT - Submission file
                :02. FERR.FTN - Source
                :   for FMGR compatib : rn to &FERR
Operating System.....: RTE-IV, RTE-6/VM
Language(s).....: FTN7X
Keywords.....: 1. Error
                : 2. Help
                : 3. Debug
                : 4. Message
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
                :
City.....: N-1322 HOEVIK
State.....:
Country.....: NORWAY
Zip Code.....:
Phone Number...: 47 / 2 / 477060
Telex.....:
Program Abstract.....:

```

This is a program which is specially useful during program development. If FERR has a permanent ID segment and the routine RTERR (from IVLIB) is loaded with a program, then FERR will explain any run-time error in clear text. When a 'disastrous' error occurs the program allows you the choose whether to continue the program or to abort.

FERR is independent of the file system.

Additional Documentation....: Compile the program and load permanently with LOADR.

```

-----
Contribution Name.....: PLIB
Title.....: General Purpose Library management
File Names.....:00. Rename Transfer File
                :01. 'PLIB' Submission file
                :02. &PLIB : source file
                :03. &PLIB : relocatable file
                :04. "PLIB : documentation file
Operating System.....: RTE-4 6
Language(s).....: FTN7, FTN4
Keywords.....: 1. Documentation
                : 2. Data Mgmt
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Jean ZEN
Company.....: Centre de Recherches Nucleaires
Street.....: 23, rue du Loess
City.....: 67037 STRASBOURG CEDEX
State/Country...: France
Phone Number...: (88) 28 65 84
Telex.....: 890032 F CNRS CRO
Program Abstract.....: PLIB is a general purpose library manage-
                : ment program. It allows to list library's entries along
                : with their comments, to update libraries or to copy selec-
                : tively a library. PLIB can support up to 1000 entries in
                : a library.
Additional Documentation....:

```

LIST CI FILES WITH MASKED FILE NAMES

```

Contribution Name.....: LIST
Title.....: List CI files with masked file names
File Names.....:00. Rename Transfer File
                  :01. LIST.SBMT   Submission file
                  :02. LIST.FTN   - Source
                  - for FMGR compatib : rn to &LIST
                  :03. LIST.HELP - Help file
                  - for FMGR compatib : rn to 'LIST
Operating System.....: RTE-6/VM, RTE-A with CI file system
Language(s).....: FTN7X
Keywords.....: 1. List
                : 2. CI
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
                :
City.....: N-1322 HOEVIK
State.....:
Country.....: NORWAY
Zip Code.....:
Phone Number...: 47 / 2 / 477060
Telex.....:
Program Abstract.....:

```

Purpose :
To list multiple files with masked filenames.

Method:
The program searches the directories to find source files.
Files matching the input file name(s) are listed.

Use:
To run the program, type:
LIST,<file masks>,<list LU>,<+Options>

The parameters can be in any order, but only the LAST
LU number is used for list. Default LU is 6 (printer).

Options are specified by using a plus (+) sign.
More than one option may be combined into one.

Valid options are:

+N - List with line numbers
+I - Inhibit headings and page numbering.

Examples:

LIST /Inge/Docgn/@	List all sources in /Inge/Docgn to LU # 6.
LIST @.MAC	List all MACRO sources in the working directory to LU # 6.
LIST net/@ 1	List all sources in the directory NET. to LU # 1.
LIST FILE.FTN +NI	List 'FILE.FTN' with line numbers and no headings.

Additional Documentation....: Help file LIST

FILE SEARCH PROGRAM WITH MASKED FILE NAMES

```

Contribution Name.....: Search
Title.....: FILE SEARCH PROGRAM WITH MASKED FILE NAMES
File Names.....:00. Rename Transfer File
                  :01. SEARCH.SBMT Submission file
                  :02. SEARCH.FTN - Source
                  for FMGR compatib : rn to &SEARC
                  :03. SEARCH - Help file
                  for FMGR compatib : rn to !SEARC
Operating System.....: RTE-6/VM, RTE-A with CI file system
Language(s).....: FTN7X
Keywords.....: 1. Search
                2. Text
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
                :
City.....: N-1322 HOEVIK
State.....:
Country.....: NORWAY
Zip Code.....:
Phone Number...: 47 / 2 / 477060
Telex.....:
Program Abstract.....:

```

This is fast file search program that enables you to find all occurrences of a specified string. Files to be searched are specified using masked file names.

You can select to have lower case characters shifted before comparing, and to have spaces ignored. Also, the program can be instructed to list all matches to a file.

The program will be faster if it's sized up, preferably to 32K.

Additional Documentation....: See the heading of the source file and the SEARCH help file.

```

-----
Contribution Name.....: UPDIR
Title.....: MOVE UP ONE OR MORE LEVELS IN CI DIRECTORY TREE
File Names.....:00. Rename Transfer File
                  :01. UPDIR.SBMT  Submission file
                  :02. UPDIR.FTN  - Source
                        for FMGR compatib : rn to &UPDIR
                  :03. UPDIR  - Help file
                        for FMGR compatib : rn to !UPDIR
Operating System.....: RTE-6/VM, RTE-A with CI file system
Language(s).....: FTN7X
Keywords.....: 1. Directory
                2. CI
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
City.....: N-1322 HOEVIK
Country.....: NORWAY
Phone Number...: 47 / 2 / 477060
Program Abstract.....:

```

UPDIR is a utility program to return to the former level in the CI directory. More than one level can be specified. UPDIR can also be used to change to another working directory on the same level.

Additional Documentation....: Help file UPDIR.

```

-----
Contribution Name.....: USE OF VMAIO.SUB
Title.....: TREAT VAM/EMA AS DISK FILES
File Names.....:00. Rename Transfer File
                  :01. USE OF VMAIO.SBMT  submit file
                        for FMGR compatib : rn to SUBMIW
                  :02. USE OF VMAIO.TXT  Documentation file
                        for FMGR compatib : rn to "VMAIO
                  :03. USE OF VMAIO.FTN  Source file
                        for FMGR compatib : rn to &VMAIO
                  :04. USE OF VMAIO.DAT  Data file
                        for FMGR compatib : rn to !VMAIO
Operating System.....: RTE-A
Language(s).....: FORTRAN 77
Keywords.....: 1. Files
                2. EMA/VMA
External Support Req'd...: CS 80 disc
If Re-submission, Reason.:
Contributor's Name.....: Bengt Thylen / Kjell Klasson
Company.....: AB Bofors Plast
Street.....: Box 302
City.....: S-341 00 Ljungby
Country.....: Sweden
Phone Number...: + 46 372 12520
Telex.....: 838 5026

```

Program Abstract.....: The utility VMAIO can be used in a way not described in the RTE-A programmers reference manual. If you have large data files residing on CS 80 discs, you can transfer data to or from EMA/VMA and the disc. By specifying track and sector in PRAM3 and PRAM4 you can address your call to the desired part of the data file.

Additional Documentation....:


```

-----
Contribution Name.....: WOLF
Title.....: Word Oriented Line Formatter
File Names.....:00. Rename Transfer File
:01. WOLF.SBMT Submission file
:02. "FILEDESCRIPTION.TXT" - description.
for FMGR compatib : rn to "FIDSC
:03. "STARTUP Startup transfer file
(moves files, compiles/loads programs)
for FMGR compatib : rn to "STRTP
:04. "WOLF Norwegian documentation
:05. "WOLF0 Norwegian documentation
:06. "WOLF1 Norwegian documentation
:07. "WOLF2 Norwegian documentation
:08. "WOLF3 Norwegian documentation
:09. "WOLF4 Norwegian documentation
:10. "WOLF5 Norwegian documentation
:11. >WOLF English documentation
:12. >WOLF0 English documentation
:13. >WOLF1 English documentation
:14. >WOLF2 English documentation
:15. >WOLF3 English documentation
:16. >WOLF4 English documentation
:17. >WOLF5 English documentation

```

Help files - to be copied to directory /HELP
SEE "FILEDESCRIPTION.TXT"

```

:18. ?WOLF Main HELP file for WOLF
:19. ?AN Command HELP file
:20. ?AP "
:21. ?AR "
:22. ?B "
:23. ?BL "
:24. ?C "
:25. ?CB "
:26. ?CP "
:27. ?FG "
:28. ?FI "
:29. ?FR "
:30. ?FS "
:31. ?FT "
:32. ?HP "
:33. ?I "
:34. ?JR "
:35. ?JS "
:36. ?LD "
:37. ?MR "
:38. ?NC "
:39. ?NP "
:40. ?P "
:41. ?PC "
:42. ?PE "
:43. ?PM "
:44. ?PN "
:45. ?PO "
:46. ?PP "
:47. ?PS "
:48. ?QP "
:49. ?R "
:50. ?RN "
:51. ?S "
:52. ?SF "
:53. ?SP "
:54. ?T "
:55. ?TA "
:56. ?TB "
:57. ?TC "
:58. ?TM "
:59. ?TO "
:60. ?WP "

```

WOLF sources - alphabetically.

- :61. APLDR.FTN APLDR for RTE-6/VM -
 to be loaded permanently
 for FMGR compatib : rn to &APLDR
- :62. CFILE.COM INCLUDE file for file DCBs
 for FMGR compatib : rn to ^CFILE
- :63. CQUME.COM INCLUDE file for
 printer parameters
 for FMGR compatib : rn to ^CQUME
- :64. CWOLF.COM INCLUDE file for
 basic WOLF data description
 for FMGR compatib : rn to ^CWOLF
- :65. ERROR.FTN ERROR description program
 - called by WOLF
 for FMGR compatib : rn to &ERROR
- :66. SP.FTN SPOOL setup program
 for RTE-6/VM - to be loaded permanently
 for FMGR compatib : rn to &SP
- :67. WOLF.LOD WOLF LINK command file
 for FMGR compatib : rn to #WOLF
- :68. WOLF1.FTN WOLF source 1 - FTN7X
 for FMGR compatib : rn to &WOLF1
- :69. WOLF2.FTN WOLF source 2 - FTN7X
 for FMGR compatib : rn to &WOLF2
- :70. WOLF3.FTN WOLF source 3 - FTN7X
 for FMGR compatib : rn to &WOLF3
- :71. WOLF4.FTN WOLF source 4 - FTN7X
 for FMGR compatib : rn to &WOLF4
- :72. WOLF5.MAC WOLF source 5 - MACRO
 for FMGR compatib : rn to &WOLF5

Operating System.....: RTE-6/VM, RTE-A with CI file system
 Language(s).....: FTN7X, MACRO
 Keywords.....: 1. TEXT
 : 2. WORD PROCESSING

External Support Req'd...: None
 If Re-submission, Reason.: Conversion to CI file system,
 bugs fixed

Contributor's Name.....: Inge Vabekk
 Company.....: GECO A/S
 Street.....: P.o.box 330
 :
 City.....: N-1322 HOEVIK
 State.....:
 Country.....: NORWAY
 Zip Code.....:
 Phone Number...: 47 / 2 / 477060
 Telex.....:



Program Abstract.....:

This is an improved version of WOLF, running under the CI file system. The speed has been almost doubled compared to the previous version, since it no more uses a disc file as scratch area and a CPU-consuming subroutine has been rewritten to MACRO.

Special processing may be done for printers like Qume, Diablo, Wenger. WOLF now uses improved underlining for HP and Wenger printers (with underline character set), and can set physical margin and variable line distance. Spooling may be set up automatically, and errors explained in clear texts (optional).

WOLF now supports national character sets. This is done by changing the default control character to '@', and processing characters {, }, [,], \, like alphabets.

WOLF can now be used with a preprocessing program, since it can receive input text via class I/O.

Otherwise the program is used as before.

Additional Documentation....:

```

-----
Contribution Name.....: FORM
Title.....: Menu editing program
File Names.....:00. Rename Transfer File
:01. FORM.SBMT Submission file
:02. >FCOMMON - Include file
      for FMGR compatib : rn to ^FCOMM
:03. FORM.FTN - Main
      for FMGR compatib : rn to &FORM
:04. CKLIN.FTN - Subroutine
      for FMGR compatib : rn to &CKLIN
:05. CRLF.FTN -
      for FMGR compatib : rn to &CRLF
:06. CWRIT.FTN -
      for FMGR compatib : rn to &CWRIT
:07. DSABL.FTN -
      for FMGR compatib : rn to &DSABL
:08. FORTX.FTN -
      for FMGR compatib : rn to &FORTX
:09. HOME.C.FTN -
      for FMGR compatib : rn to &HOME
:10. INPUT.FTN -
      for FMGR compatib : rn to &INPUT
: 11. LPR.FTN -
      for FMGR compatib : rn to &LPR
: 12. NONBL.FTN -
      for FMGR compatib : rn to &NONBL
: 13. NOYES.FTN -
      for FMGR compatib : rn to &NOYES
: 14. OUT.FTN -
      for FMGR compatib : rn to &OUT
: 15. OUTC.FTN -
      for FMGR compatib : rn to &OUTC
: 16. RPOS.FTN -
      for FMGR compatib : rn to &RPOS
: 17. SOFTK.FTN -
      for FMGR compatib : rn to &SOFTK
: 18. WPOS.FTN -
      for FMGR compatib : rn to &WPOS
: 19. FORM.LOD - LINK command file
      for FMGR compatib : rn to #FORM

Operating System.....: RTE-6/VM, possibly RTE-A
Language(s).....: FTN7X
Keywords.....: 1. Interactive
: 2. Help
: 3. Display
External Support Req'd...: $IVLIB (see contribution J111)
If Re-submission, Reason.:
Contributor's Name.....: Inge Vabekk
Company.....: GECO A/S
Street.....: P.o.box 330
City.....: N-1322 HOEVIK
State.....:
Country.....: NORWAY
Zip Code.....:
Phone Number...: 47 / 2 / 477060
Telex.....:
Program Abstract.....:

```

FORM is an editing program made for easy construction of block-mode menus or screen pictures. FORM builds a menu file that can be dumped directly to the terminal. The use of FORM is similar to EDIT/1000. As far as I know any HP terminal can be used to construct the menu, since block mode is not used.

Optional outputs: A file in printer format for documentation and a BLOCK DATA subprogram file which can be compiled directly and loaded with a program.
FORM uses the CI file system.

Additional Documentation.....:

PRINT TEXT-FILES

```

-----
Contribution Name.....: LIST
Title.....: Print text-files
File Names.....:00. Rename Transfer File
                  :01. LISTK.SBMT Submission file
                  :02. LISTK.FTN
                  :   for FMGR compatib : rn to &LISTK
                  :03. PARSE.FTN
                  :   for FMGR compatib : rn to &PARSE
                  :04. LISTK.LOD
                  :   for FMGR compatib : rn to #LISTK
Operating System.....: RTE-6/VM (rev 2401)
Language(s).....: Fortran 77
Keywords.....: 1. List
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: KALETTA D., KRUEGER TH.
Company.....: Kernforschungszentrum Karlsruhe
Street.....: Post-box 3640
City.....: D-7500 KARLSRUHE 1
State/Country...: West-Germany
Phone Number...: 07247/82/4029
Telex.....: 7826484
Program Abstract.....: LIST is a utility program for printing
text files. It is a helpful tool when operating with the
command interpreter; the CI language does not include a
'print' command.
Additional Documentation....:

```

LIST DIRECTORY TREE AND CHANGE WORKING DIRECTORY

```

-----
Contribution Name.....: di
Title.....: LIST DIRECTORY TREE AND CHANGE WORKING DIRECTORY
File Names.....:00. Rename Transfer File
                  :01. DI.SBMT Submission file
                  :02. di.ftn
                  :03. DI.TXT
Operating System.....: rte-a
Language(s).....: ftn77
Keywords.....: 1. Directory
                  : 2. List
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Domeisen Heinz
Company.....: Eidg. Technische Hochschule
                  : Institut fuer Mess- und Regeltechnik
City.....: CH - 8092 Zuerich
Country.....: Switzerland
Phone Number...: 01/256 2454
Program Abstract.....:
DI lists the whole directory tree under the current (or
any chosen) (global) directory and indicates the current
working directory. The working directory can then be
changed by positioning the cursor in the desired line.
Before stopping, DI makes a directory list of the new
working directory.
Auto-linefeed must be off at the terminal.
Additional Documentation....:

```

```

-----
Contribution Name.....: META
Title.....: IMAGE-II DECLARATION GENERATOR FOR PASCAL
File Names.....:00. Rename Transfer File
                 :01. META.SBMT Submission file
                 :02. meta.txt
                   for FMGR compatib : rn to "META
                 :03. meta.lod
                   for FMGR compatib : rn to #META
                 :04. meta.cmd
                   for FMGR compatib : rn to *META
                 :05. meta.con
                   for FMGR compatib : rn to *MCON
                 :06. meta.pas
                   for FMGR compatib : rn to &META
                 :07. metadecl.pas
                   for FMGR compatib : rn to &MDECL
                 :08. metaset.pas
                   for FMGR compatib : rn to &MSET
                 :09. metautil.pas
                   for FMGR compatib : rn to &MUTIL
                 :10. meta.run
                   for FMGR compatib : rn to METARU
                 :11. metadecl.rel
                   for FMGR compatib : rn to %MDECL
                 :12. metautil.rel
                   for FMGR compatib : rn to %MUTIL
                 :13. metaoutput.pas
                   for FMGR compatib : rn to "MOUTP
                 :14. metaset.rel
                   for FMGR compatib : rn to %MSET
                 :15. meta.rel
                   for FMGR compatib : rn to %META
Operating System.....: RTE A + VC+ (meta uses CDS)
Language(s).....: Pascal II and IMAGE II (A.85)
Keywords.....: 1. Data Base
                : 2. Image
                : 3. PASCAL
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Eugen Haegiellgian user
Company.....: Hewlett-Packard (Schweiz) AG
Street.....: Allmend 2
City.....: 8967 Widen
State/Country.: Switzerland
Phone Number..: 057 31 21 11
Telex.....:
Program Abstract.....: Image/1000 applications written in Pascal
                    sometimes tend to have a very large declaration part.
                    META uses the DBINF call and produces a standard declara-
                    tion module for Pascal. This module can and should be
                    imported by all DB programs.
Additional Documentation....: META.TXT (rn to "META)

```

FUNCTION KEY DEFINITIONS

```

-----
Contribution Name.....: KEYS
Title.....: Function key definitions
File Names.....:00. Rename Transfer File
                  :01. KEYS.SBMT  Submission file
                  Rename transfer file for FMGR
                  for FMGR compatib : rn to *RNFMG
                  Rename transfer file for RTE-A
                  for FMGR compatib : rn to *RNRTA
                  : 02. KEYS.FTN  Program source file
                  for FMGR compatib : rn to &KEYS
                  : 03. KEYS.REL  Relocatable file
                  for FMGR compatib : rn to %KEYS
                  : 04. KEY2.FTN  Subroutine source file
                  for FMGR compatib : rn to &KEY2
                  : 05. KEY2.REL  Relocatable file
                  for FMGR compatib : rn to %KEY2
                  : 06. KEYS.LOD  LINK command file for RTE-A
                  for FMGR compatib : rn to #KEYS
                  : 07. KEYS.KEYS  Data file: example key def.
                  for FMGR compatib : rn to "KEYS
                  : 08. SAMP.FTN  Program source file
                  for FMGR compatib : rn to &SAMP
                  : 09. SAMP.REL  Relocatable file
                  for FMGR compatib : rn to %SAMP
                  : 10. SAMP.LOD  Link command file for RTE-A
                  for FMGR compatib : rn to #SAMP
                  : 11. SAMP.KEYS  Data file: example for SAMP
                  for FMGR compatib : rn to "SAMP

Operating System.....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. Softkeys
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Ari Markkula
Company.....: Helsinki Univ. of Technology, Inst of Geodesy
Street.....: Otakaari 1 F
City.....: 02150 Espoo 15
Country.....: Finland
Phone Number...: (358)-0-460144
Telex.....:

```

Program Abstract.....:

This program defines the user definable function keys for HP terminals. All the definitions will be read from a file that you easily can write with EDIT/1000. There is no need to use the display function mode for control characters. If the character is an '^' (an Uparrow, ASCII 94), the following character will be interpreted as a control character. There is also subroutines for defining only the text label displayed on the screen and for setting and reading the actual string of function keys. These subroutines are easy to use when making a program with many selections.

The included data file sets some commands from the EDIT/1000 to function keys.

Program and subroutines are documented well. Read the data file KEYS.KEYS for more information about the function key definitions and the program source KEYS.FTN for run parameters and file name defaults.

Runstring:

```
CI> KEYS KEYS.KEYS 1
```

(cont)

KEYS.KEYS is the data file, from which the definitions are taken and l defines, that you will set the group number l in function. Using the default file and group definitions it is possible just run the program without any parameters:

CI> KEYS

The second program example SAMP shows, how these subroutines can be used for multilevel selections in programs.

Remark: Subroutines use the directory structure of RTE-A. Also the second rename transfer file tries to rename files to those with type extensions.

Additional Documentation....:

NL

FILE LISTING WITH LINENUMBERS IN CI-SYSTEM

J134

```

Contribution Name.....: NL
Title.....: File listing with linenumbers in CI-system
File Names.....:00. Rename Transfer File
                 :01. NL.SBMT Submission file
                 :02. NL.FTN Source
                   for FMGR compatib : rn to &NL
                 :03. NL.REL Relocatable
                   for FMGR compatib : rn to %NL
                 :04. NL.LOD Link command file
                   for FMGR compatib : rn to #NL
Operating System.....: RTE-A & RTE-6/VM (>C.83)
Language(s).....: FTN7X
Keywords.....: 1. List
External Support Req'd...:
if Re-submission, Reason.:
Contributor's Name.....: Seppo Pietikainen
Company.....: HP / Finland
Street.....:
City.....:
State.....:
Country.....: FINLAND
Zip Code.....:
Phone Number...:
Telex Number...:
Program Abstract.....:

```

NL works pretty much the same as FMGR LI-command, except it knows hierarchical files also. Default output device = LU6.

Try ru NL.

Additional Documentation....:

```

-----
Contribution Name.....: MED
Title.....: EDIT WITH FILE MASK CAPABILITY
File Names.....:00. Rename Transfer File
:01. MED.SBMT Submission file
:02. MED.FTN Source
      for FMGR compatib : rn to &MED
:03. MED.REL Relocatable
      for FMGR compatib : rn to %MED
:04. MED.LOD Link command file
      for FMGR compatib : rn to #MED
Operating System.....: RTE-A, RTE-6/VM (>Rev C.83)
Language(s).....: FTN7X
Keywords.....: 1. editor
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Seppo Pietikainen
      Company.....: HP / Finland
      Country.....: FINLAND
Program Abstract.....:

```

MED is just like EDIT, except it will accept a file mask instead of filename in the runstring.

Additional Documentation....:NONE

```

-----
Contribution Name.....: DVT
Title.....: Get DVT & IFT Info
File Names.....:00. Rename Transfer File
:01. DVT.SBMT Submission file
:02. DVT.FTN Main source
      for FMGR compatib : rn to &DVT
:03. DVT.REL Main Reloc.
      for FMGR compatib : rn to %DVT
:04. GET DVT.MAC Data getter source
      for FMGR compatib : rn to &GTDVT
:05. GET DVT.REL - " - reloc.
      for FMGR compatib : rn to %GTDVT
:06. DVT.LOD
      for FMGR compatib : rn to #DVT
Operating System.....: RTE-A
Language(s).....: FTN7X, MACRO
Keywords.....: 1. System Tables
: 2. EQT
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Seppo Pietikainen
      Company.....: HP / Finland
      Country.....: FINLAND
Program Abstract.....:

```

DVT will get RTE-A io-tables DVT & IFT of a LU specified in the runstring to a file or device specified in the runstring.

try ru DVT.

Additional Documentation....: NONE

RTE-A SESSION UTILITIES

```

-----
Contribution Name.....: SESSION
Title.....: RTE-A session utilities
File Names.....:00. Rename Transfer File
:01. SESUP.SBMT Submission file
:02. SESUP.FTN Session start up pgm source
for FMGR compatib : rn to &SESUP
:03. SESUP.REL Corresponding relocatable
for FMGR compatib : rn to %SESUP
:04. MAIL.FTN Mail utility source
for FMGR compatib : rn to &MAIL
:05. MAIL.REL - " - reloc.
for FMGR compatib : rn to %MAIL
:06. TELL.FTN Message utility source
for FMGR compatib : rn to &TELL
:07. SU.FTN ? source
for FMGR compatib : rn to &SU
:08. TELL.REL - " - reloc.
for FMGR compatib : rn to %TELL
:09. SULIB.FTN utility library source
for FMGR compatib : rn to &SULIB
:10. SULIB.LIB - " - reloc.
for FMGR compatib : rn to %SULIB
:11. IOABORT.MAC I/O-abort source
for FMGR compatib : rn to &IOABO
:12. IOABORT.REL - " - reloc.
for FMGR compatib : rn to %IOABO
:13. SESUP.LOD SESUP link cmd-file
for FMGR compatib : rn to #SESUP
:14. MAIL.LOD MAIL link cmd-file
for FMGR compatib : rn to #MAIL
:15. TELL.LOD TELL link cmd-file
for FMGR compatib : rn to #TELL
:16. SU.LOD SU link cmd-file
for FMGR compatib : rn to #SU
:17. SULIB.MERG SULIB.LIB cmd-file
for FMGR compatib : rn to *SULIB
:18. SETUP.CMD cmd file to link all
for FMGR compatib : rn to *SETUP
:19. MAIL.HELP MAIL help-file
for FMGR compatib : rn to "MAIL
:20. TELL.HELP TELL help-file
for FMGR compatib : rn to "TELL
:21. SU.HELP SU help-file
for FMGR compatib : rn to "SUHLP
:22. SESSION.READ Info file
for FMGR compatib : rn to "SESSI
:23. DISTRIBUTION.LIST Sample distr. list
for FMGR compatib : rn to 'DISTR
:24. MESSAGES.TXT Sample start up message
for FMGR compatib : rn to 'MESSG

Operating System.....: RTE-A/VC+
Language(s).....: FTN7X, MACRO
Keywords.....: 1. Mail
: 2. Message
: 3. Session

External Support Req'd...
if Re-submission, Reason.:
Contributor's Name.....: Seppo Pietikainen
Company.....: HP / Finland
Street.....:
:
City.....:
State.....:
Country.....: FINLAND
Zip Code.....:
Phone Number...:
Telex Number...:

```

(cont)

RTE-A SESSION UTILITIES (cont)

Program Abstract.....:

SESSION is a set of programs (SESUP, MAIL, TELL, SU) for sending mail & messages in RTE-A/VC+ environment.

SESUP is the startup program, which outputs file /SYSTEM/MESSAGES.TXT to users terminal, when he/she logs on, and tells the user if he/she has any mail in directory /MAIL, and finally schedules CI to the user.

MAIL is the interface by which the user can send mail to other users or receive mail from other users.

TELL is a program, through which a user can send messages to other active users in the system. (It aborts the current I/O-request!)

SU is a program, by which a user can become temporarily a super-user if he/she knows MANAGER's password.

Additional Documentation....: file: SESSION.READ

COMPILE UTILITY

Contribution Name.....: C
 Title.....: Compile utility
 File Names.....:00. Rename Transfer File
 :01. C.SBMT Submission file
 :02. C.FTN - Source
 - for FMGR compatib : rn to &C
 :03. COMPL.HELP - Help file
 - for FMGR compatib : rn to !COMPL
 Operating System.....: RTE-6/VM, RTE-A with CI file system
 Language(s).....: FTN7X
 Keywords.....: 1. Compiler
 2. Pre-processor
 External Support Req'd...: \$IVLIB (see contribution J111)
 If Re-submission, Reason.:
 Contributor's Name.....: Inge Vabekk
 Company.....: GECO A/S
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 :
 City.....: N-1322 HOEVIK
 State.....:
 Country.....: NORWAY
 Zip Code.....:
 Phone Number...: 47 / 2 / 477060
 Telex.....:
 Program Abstract.....:

This is an improved version COMPL, running under the CI file system. The program uses the file masking feature to search for files to be compiled. The appropriate compiler is called according to either the filename extension (FTN,MAC, PAS etc) or the file's control statement if the filename starts with an '&'.

Several file masks can be specified in one command. Spooling is started if the program SP (Separate contribution) is available and spooling is legal for the output device.

Compile options can be specified in the run-string.

Additional Documentation....: See the heading of the source file and the COMPL help file.

