

CSL/1000



LIBRARY OF
USER-CONTRIBUTED SOFTWARE
FOR HP1000 SYSTEMS

=====

RELEASE TAPE 2830

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Published by
INTEREX
THE INTERNATIONAL ASSOCIATION OF HEWLETT-PACKARD COMPUTER USERS

To obtain this index or additional copies of any previously published indexes,
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PUBLICATION NOTICE

The last change itemized reflects the software currently documented.

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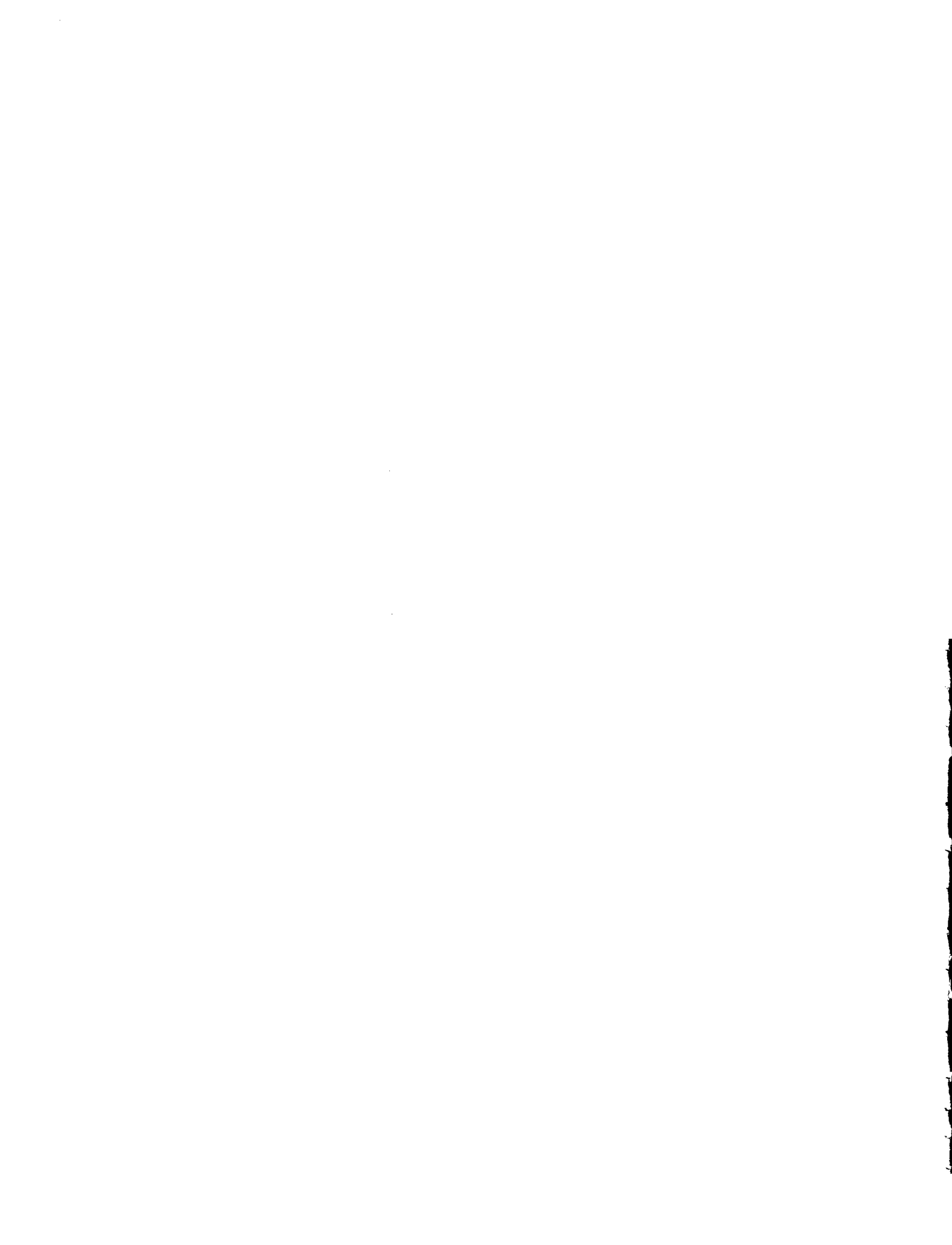


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GENERAL INTRODUCTION

CSL/1000 is the contribution 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 contributions to the CSL/1000 library are general usage programs, while 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.

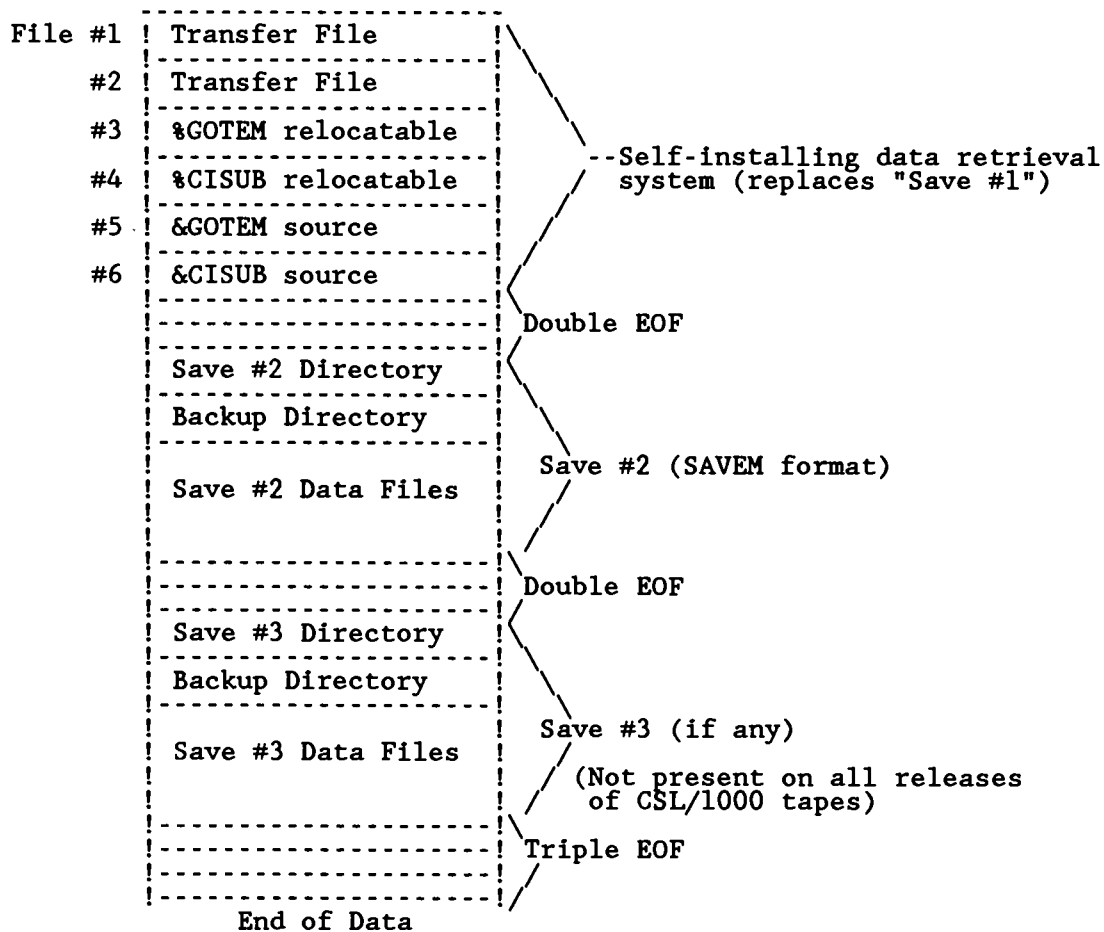
These responsibilities for the CSL/1000 library lie with Interex.

CSL/1000 TAPE FORMAT

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 6 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 or GETEM. All data files are in FMGR format with 6-character names (see section on File-Naming Conventions).

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

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 "CONTRIBUTION 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
 ('M' for release 2830).
 'NNN' is the serial number within
 the release.
 MM is the number of the file within the
 contribution.

The file 'ANNNO0' 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,ANNNO0,<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,ANNNO0,<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 M 38th contribution with 6 files
is named:
M03800 ,M03801, M03802, M03803, M03804, M03805
(where M03800 is the 'Rename Transfer File' and
M03801 is the 'Submission File')

DATA-RETRIEVAL INSTRUCTIONS

Standard 1/2" Computer Tape (SAVEM format)

IMPORTANT: Under RTE-6 or RTE-A, make sure that LINK is RP'ed!

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 files #3 and #4 (%GOTEM,%CISUB) from the mag tape and store it on the scratch disk. Then GOTEM will be loaded (using LINK or LOADR) and scheduled for execution. [%CISUB is relocated only on systems having CI installed; %CISUB is a set of subroutines that allow GOTEM access to the CI system for restoring files. On non-CI systems, %CISUB will not be used. Furthermore, if all load attempts fail, file #5 (&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 data files.

If you do not have any FMGR cartridges on your system, you can load GOTEM by simply restoring files #3 and #4 (%GOTEM,%CISUB) and then linking them, as follows (assume mag tape lu is 8):

```
CI> CN.8.FF
CI> CN.8.FF
CI> CO.8.%GOTEM
CI> CO.8.%CISUB
CI> LINK.%GOTEM.%CISUB.GOTEM::PROGRAMS
```

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 \>(done automatically from transfer file)
Enter Save# to be accessed: 2 /
(GOTEM positions tape)
Tape positioned to start of Save# 2
Save date (Y:D:H:M): 1988:202:18: 0
Header: CSL/1000 REV 2830
```

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)
- EX - terminate and rewind tape

Command? DL

Enter lu for directory listing (default your terminal): 1

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

Enter namr of desired file: M019--

Save# 2
 Save date (Y:D:H:M): 1988:202:18: 0
 Header: CSL/1000 REV 2830

Name	Scode	Cart	Type	Size
M01900:	0:	-61:	4:	2
M01901:	0:	-61:	4:	18
M01902:	0:	-61:	4:	82

 3 files found matching M019--

Command? RF (Restore files)

Enter destination FMGR cartridge reference or
 CI global directory (2 chars max) 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: M019--
 ...(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
M01900:	0:	-61:	4:	1
M01901:	0:	-61:	4:	9
M01902:	0:	-61:	4:	41

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 (FMGR only)
 Enter security code: AW

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

	Name	Scode	Cart	Type	Size
Searching					
Creating	M01900:	AW:	SC:	4:	1
Writing	M01900:	AW:	SC:	4:	1
Searching					
Creating	M01901:	AW:	SC:	4:	9
Writing	M01901:	AW:	SC:	4:	9
Searching					
Creating	M01902:	AW:	SC:	4:	41
Writing	M01902:	AW:	SC:	4:	41
Normal end					
					3 files restored

Command? EX (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> TF (run TF)
TF: CO 24(M019--,M057--) :RT (copy to cart/dir RT)
TF: EX (terminate)
```

Contributions M019 and M057 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 'ANNN' is the 'contribution number' and <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 GOTEK or TF) or to a CI directory (TF only). Under CI, issue the command:

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

where 'ANNN' is the 'contribution number', <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 contribution 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)'.
- 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)'.
- Contribution 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.
- 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.
- 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 contribution 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).

I N T E R E X
C O N T R I B U T E D S O F T W A R E L I B R A R Y
C S L / 1 0 0 0

CONTRIBUTION 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(s).....:
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...:
Contribution 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, dot, or commercial 'at').

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 Interex)

:01. XYZ.SUBMT - Submission file (or 'XYZ')

Prepared by user, using blank 'SUBMT file.

:02. XYZ.FTN - XYZ source code [or &FTN]

Comments if desired

:03. XYZ.REL - XYZ relocatable [or %XYZ]

:04. XYZ.LOD - XYZ LINK command file [or #XYZ]

:05. XYZ.DOC - Manual for XYZ [or "XYZ]

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 contribution 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 contribution available to Interex, The International Association of Hewlett-Packard Computer Users. I hereby agree that Interex may reproduce, publish, and use this contribution, 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
680 Almanor Avenue
Sunnyvale, California 94086-3513
U.S.A.
(408) 738-4848

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.

INTEREX CONTRIBUTED-SOFTWARE EVALUATION FORM

USER Site Information:

HP1000 Series (M, E, F, A, XL) _____

RTE Revision _____

OpSys (RTE-6, RTE-A, etc) _____

CONTRIBUTION Information:

Library RELEASE (2625, 2730, 2830, etc) _____

Contribution No. (M034, etc) _____ Contribution Name _____

Evaluation: Works as Documented

Works with Exception (please explain below)

Abandoned due to: incomplete documentation

erroneous documentation

operation doesn't match example

program will not load

program will not execute

source code will not compile

Explanation: _____

Your Name _____

Company _____

Street _____

City/State/Zip _____

Telephone _____

SEND TO: CSL/1000 Manager
INTEREX
680 Almanor Ave.
Sunnyvale, CA 94086-3513 USA

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
680 Almanor Avenue
Sunnyvale, California 94086-3513
U.S.A.
(408) 738-4848



List of Current Keywords

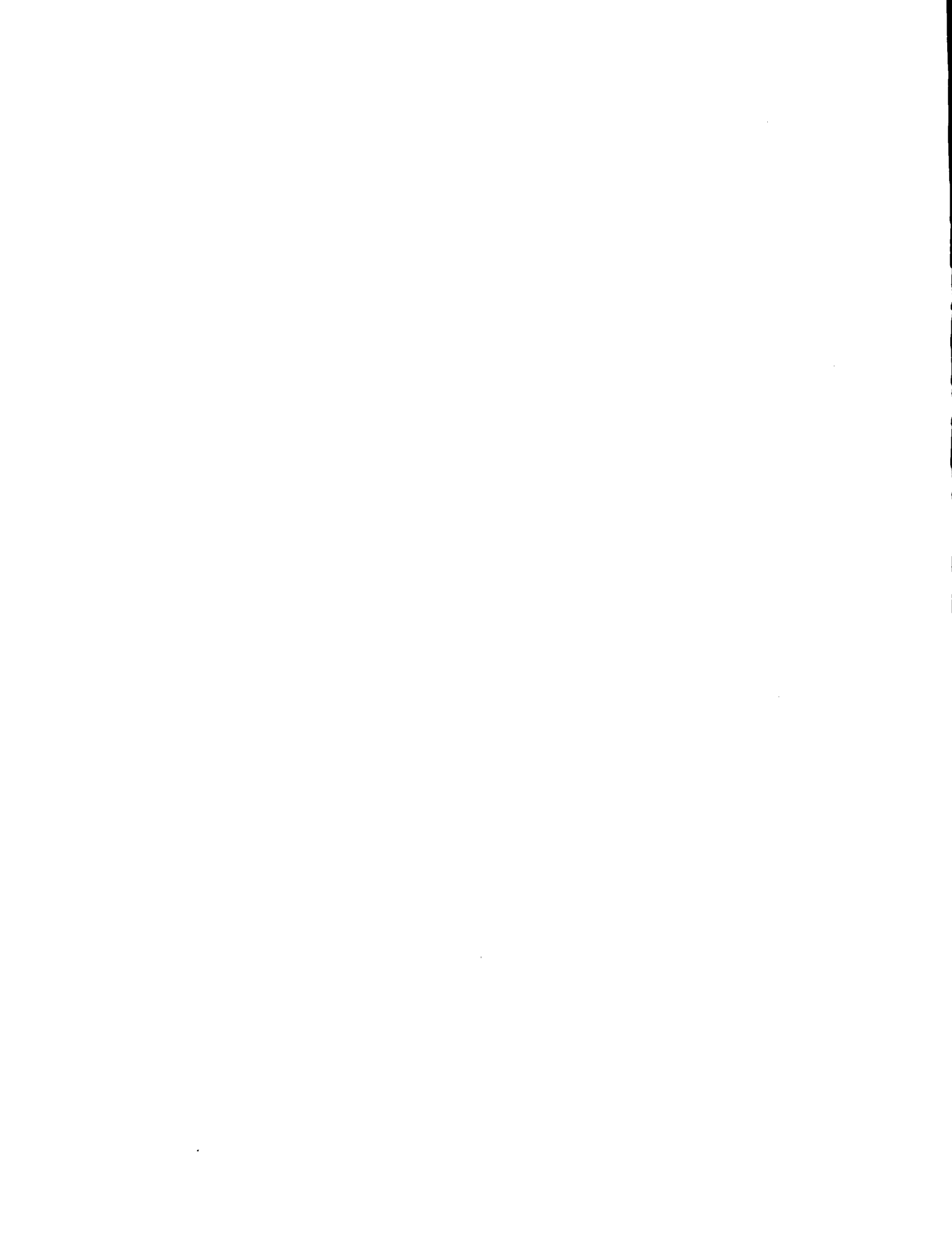
9825	DATE	INTEL	PRIVILEGED
ABSOLUTE	DEBUG	INTERACTIVE	PROCEDURES
ACCOUNTING	DEC	INTERFACE	PROM
ACCOUNTS	DECIMAL	INTERPRETER	PURGE
AI	DECODE	INTERRUPT	QDM
ALGEBRA	DEMO	INVERSE	RANDOM
ALGOL	DIAGNOSTIC	LABEL	REGRESSION
ANALOG/DIGITAL	DIGITIZER	LANGUAGE	RELOCATABLE
ANALYZER	DIRECTORY	LAS	REPORTS
APPLE	DISC	LASERJET	RESOURCE_NUMBER
ARCHIVE	DISPLAY	LIBRARY	RJE
ARRAY	DMA	LINEAR_EQNS	SAVE/RESTORE
ASCII	DOCUMENTATION	LINK	SCANNER
ASSEMBLER	DRIVER	LIST	SCHEDULING
ASTRONOMY	DS	LOADER	SCRATCH
ASYNCHRONOUS	DUMP	LOGON/LOGOFF	SEARCH
ATS	EBCDIC	MACRO	SECURITY
BACI	EDITOR	MAGNETIC_TAPE	SEGMENTATION
BACKUP	EMA/VMA	MAIL	SESSION
BAR_CODE	EMULATOR	MAINTENANCE	SHELL
BASIC	ENCRYPTION	MANAGEMENT	SIMULATOR
BATCH	ENGINEERING	MAP	SNAP
BCD	ENTRY_POINTS	MATHEMATICS	SOFTKEYS
BENCHMARK	EQT	MATRIX	SORT
BINARY	ERROR	MEASUREMENT	SPEECH
BIT	EXPERT SYSTEMS	MEMORY	SPELLING
BOOT-UP	EXTENTS	MENU	SPL
BYTE	FAIRCHILD	MERGE	SPOOLING
C	FIGURES	MESSAGE	SPREAD_SHEET
CALCOMP	FILES	MICROCODE	STACK
CALCULATOR	FILE_TRANSFER	MISCELLANEOUS	STATISTICS
CALENDAR	FILTER	MODEM	STATUS
CAMAC	FINANCE	MODIFY	STORAGE
CARTRIDGE	FLOATING POINT	MONITOR	STRINGS
CASSETTE	FLOWCHART	MOTOROLA	SYSTEM
CDC	FMGR	MOVE	SYSTEM_TABLES
CENTRONICS	FONT	MULTI-PROGRAM	TABLET
CHARACTER	FORMATTING	MULTI-TERMINAL	TEKTRONIX
CHEMISTRY	FORMS	MULTIPLEXOR	TERMINAL
CI	FORTRAN	NETWORK	TEST
CLASS_NUMBER	FOURIER	OFFICE	TEXT
CODE	GAMES	PACK	TIME
COMMAND_FILES	GENERATION	PAPER_TAPE	TOOLS
COMMON	GEODESY	PARSE	TOUCH
COMPARE	GEOMETRY	PARTITION	TRANSFORM
COMPILER	GLOBALS	PASCAL	TRANSLATOR
COMPLEX	GRAPHICS	PATH	TRANSPORTABLE
CONFIGURE	HELP	PAYROLL	TRIGONOMETRY
CONVERSION	HPIB	PC	UNIX
COPY	I/O	PERFORMANCE	UPDATE
CROSS-REFERENCE	IBM	PHYSICS	VAX
CS80	ID_SEGMENTS	PLOTTING	WCS
DATA_ACQUISITION	IMAGE	PLUS/1000	WINDOWS
DATA_ANALYSIS	IMAGE_PROCESSING	POLYNOMIAL	WORD
DATA_BASE	INITIALIZE	PRE-PROCESSOR	WORD_PROCESSING
DATA_COMM	INPUT	PRECISION	X.25
DATA_MGMT	INTEGER	PRINTER	

SECTION II

CSL/1000 Release 2830

CONTRIBUTION INDEX

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



INDEX BY CONTRIBUTION NAME

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ACDA	RTE-A CRASH DUMP ANALYZER	* 2830	M209	ANALYZER, DUMP, SYSTEM
ACODE	AREA CODE	* 2830	M210	GEODESY, MAIL
ADISCU	DISC UTILITIES FOR RTE-A, VERSION 5.0. NON CDS	* 2830	M020	SYSTEM, SYSTEM TABLES, DISC
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ND	COMMAND STACK FOR DIRECTORY NAMES	* 2830 M238	DIRECTORY, SHELL, INTERACTIVE
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PREX	SET EXEC CALL MESSAGE LENGTH	* 2830 M242	COMPILER, PRE-PROCESSOR
PRINTS	CONTENTS OF A TERMINAL SCREEN TO LINE PRINTER	* 2830 M103	PRINTER, TERMINAL
PRMON	DISPLAY STATUS OF PROGRAM OVER SOME TIME	* 2830 M100	MONITOR, STATUS
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MAIL	A MAILBOX - ELECTRONIC MAIL FACILITY	*	2830 M105	MAIL, MAIL, NETWORK
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QRP	QUICK RP	*	2830 M246	CI, SYSTEM, MAINTENANCE
RPALL	RP, THEN OF, ALL FILES IN MASK	*	2830 M248	SYSTEM, MAINTENANCE, FILTER
RPCHK	CHECK FOR LEGAL PROGRAM FILES	*	2830 M249	SYSTEM, MAINTENANCE
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RK	RUNGE-KUTTA DIFFERENTIAL EQ'N SOLVERS	* 2830	M093	ENGINEERING, FLOATING_POINT, MATHEMATICS, PHYSICS
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PRINTS	CONTENTS OF A TERMINAL SCREEN TO LINE PRINTER	* 2830	M103	PRINTER, TERMINAL
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RPRINT	REMOTE DS/1000 PRINT PROGRAMS	* 2830	M055	DS, PRINTER
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HACKER	RTE-6 SYSTEM INFORMATION PROGRAM	* 2830	M061	SYSTEM, DECODE, SECURITY
HACKER	RTE-A SYSTEM INFORMATION PROGRAM	* 2830	M062	SYSTEM, SECURITY, DECODE
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VDISCU	DISC UTILITIES FOR RTE-A VC+ VERSION 5.0	* 2830	M023	SYSTEM, SYSTEM_TABLES, DISC, MAP
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TERM_INIT	A TERMINAL SOFT KEY INITIALIZATION PROGRAM	* 2830	M111	SOFTKEYS, TERMINAL
TERM_TYPE	OBTAIN TERMINAL TYPE	* 2830	M252	TERMINAL, SYSTEM
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SECTION IV

CSL/1000 Release 2830

CONTRIBUTION ABSTRACTS



DYNAMIC SYSTEM STATUS DISPLAY

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Contribution Name.....: SHOWP
Title.....: Dynamic system status display
File Names.....: 00. Rename Transfer File
                  01. SHOWP.SBMT      Submission file
                  02. SHOWP.LOD      Link command file
                  03. SHOWP.FTN      Fortran 7x source file
                  04. SHOWP.REL      Relocatable
                  05. SHOWP.HLP      Help file
                  06. STATES.INC     Common block
                  07. CONTROL.INC    Common block
                  08. UTILITIES.FTN  Screen utility routines
                  09. UTIL.BUFFER.INC Common block
                  10. UTILITIES.REL  Relocatable

Operating System(s).....: RTE-A Only
Language(s).....: Fortran 7x
Keywords.....: 1. Display
                2. Monitor
                3. System
                4. Diagnostic

External Support Req'd...: HP26xx, HP23xx terminal.
                        (In fact any HP addressable terminal)

If Re-submission, Reason.:
Contributor's Name.....: A.R. Gray
Company.....: Thurston Software Consultants
Street.....: 12 Stortford road
City.....: Great Dunmow
State.....: Essex
Country.....: UK
Zip Code.....: CM6 1DA
Phone Number...: 0371-5515
Telex.....:
Contribution Abstract.....:

This program displays information on all programs with an ID segment
table entry. The programs are listed left to right/top to bottom in the
order they appear in the ID table.

DELAY is an optional parameter which when specified is the
delay between display updates expressed in 10's of millisecs.
If omitted delay is taken as 100 (i.e. once a second)
Delay can be any value between 10 - 32767, although values
above 100 will not yield any useful dynamic information.
The bottom limit of 10 millisecs was chosen so as not to
degrade system performance excessively

Six items of information are displayed using a combination of text and
screen highlights:
Program name
Session number
Priority
Program status
Memory status (I.e "In" or swapped out)
Break flag

Additional Documentation....: See the help file SHOWP.HLP

```

CREATE CS-80 DVT ENTRY SEQUENCE

```

Contribution Name.....: Driverparm
Title.....: Create CS-80 DVT entry sequence
File Names.....: 00. Rename transfer file
                  01. DRIVERPARM.SBMT
                  02. DRIVERPARM.FTN
                  03. DRIVERPARM.LIB.FTN
                  04. CMDSTACK.MAC
                  05. LEFTJUSTIFY.MAC
                  06. MERGE.FILES.MRG
                  07. DRIVERPARM.CMD
                  08. DRIVERPARM.REL
                  09. DRIVERPARM.LIB.REL
                  10. DRIVERPARM.LIB

Operating System(s).....: RTE-A
Language(s).....: FTN7X & MACRO FOR COMMANDSTACK UTILITIES
                  CMDSTACK & LEFTJUSTIFY IS FROM CSL
Keywords.....: 1. Driver
                2. Configure
                3. System
                4. Generation

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number...: 06172 400-402
Telex.....:

Program Abstract.....: Will give you a textfile containing
the complete DVT entry sequence that you need in the answer file for
generation. For example, run DRIVERPARM to create a file ( p.e. m7933.gen ).
Then modify your answerfile depending to your system and merge m7933.gen
into your answerfile at the proper position. Take care about searchpaths
and drivernames. DRIVERPARM also create a stackfile reusing it at restart.
Additional Documentation....: SEE SOURCE

TAKE CARE ABOUT SEARCH PATHES IN THE FILE
CREATED BY DRIVERPARM AND DON'T FORGET THE
IFT ENTRY !!

```

```

Contribution Name.....: CLAL
Title.....: Expanded disc-information utility
File Names.....: 00. Rename transfer file
                  01. CLAL.SBMT
                  02. CLAL.FTN  FOR RTE-A
                  03. CLAL.REL
Operating System(s).....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. System
                2. Disc
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number...: 06172 400-402
Telex.....:
Program Abstract.....:
  Gives user a listing similar to RTE-VI command CL,AL
  Listing look's as follows:

```

LU	Last Trck	CRN/CI	sec/trck	locked	11:21 AM WED., 24 FEB., 1988
16	00399	CI	48		
17	00942	CI	48		
22	00938	CI	48		
29	02625	CI	48		
23	00423	23	48		
30	00603	CI	48	KEYNU/73	
49	01621	CI	48		

MAKE_KEYS

MAKE/SET TERMINAL SOFTKEYS

M004

```

Contribution Name.....: MAKE_KEYS
Title.....: Make/set terminal softkeys
File Names.....: 00. Rename transfer file
                  01. MAKE_KEYS.SBMT
                  02. MAKE_KEYS.FTN  FOR RTE-A
                  03. MAKE_KEYS.REL
Operating System(s).....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. SOFTKEYS
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number...: 06172 400-402
Telex.....:
Program Abstract.....: Running MAKE_KEYS will create a PROGRAM,
  that's the reason you need the ftn7x compiler.
  This program will set the softkeys according
  to the values in Make keys specified ( this
  is not a transferfile !!!!! ).
  You can start those programs by fmprunprogram
  in your software.

```

GENRECORDS

READ GEN RECORDS FROM DRIVER RELOCATABLE

M005

```

Contribution Name.....: GENRECORDS
Title.....: Read GEN records from driver relocatable
File Names.....: 00. Rename transfer file
                  01. GENRECORDS.SBMT
                  02. GENRECORDS.FTN  FOR RTE
                  03. GENRECORDS.REL
Operating System(s).....: RTE-A  OR RTE-VI WITH CI VOLUMES
Language(s).....: FTN7X
Keywords.....: 1. Driver
                2. Relocatable
                3. Generation
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH / LORENZ HIEMER
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number...: 06172 400-402
Telex.....:
Program Abstract.....: Lists the GEN records from driver relocatable.
  'RU,GENRECORDS,<lu> will direct listing to
  specified lu.

```

ROOT

GIVE SUPER-USER CAPABILITY

```

Contribution Name.....: ROOT
Title.....: Give super-user capability
File Names.....: 00. Rename transfer file
                  01. ROOT.SBMT
                  02. ROOT.FTN   FOR RTE-A
                  03. ROOT.REL
Operating System(s).....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. system
                2. security
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number.....: 06172 400-402
Telex.....:
Program Abstract.....: Gives you super-user capability by
                        starting a 'superci'. The program asks you
                        for a password, which is linked to the
                        current system time (variable password).
                        See source code for password algorithm.
Note: On directory /PROGRAMS make a copy of CI.RUN called SUPERCI.RUN.

```

M007

TE

SEND MSGS TO USER (LIKE 3000 TELL)

```

Contribution Name.....: TE
Title.....: send msgs to user (like 3000 TELL)
File Names.....: 00. Rename transfer file
                  01. TE.SBMT
                  02. TE.FTN   FOR RTE-A
                  03. TE.REL
Operating System(s).....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. Message
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number.....: 06172 400-402
Telex.....:
Program Abstract.....: Running the program, will show you wh,se and
                        ask for specified lu#. @ means broadcast to
                        all active sessions ( also locked lu's ),
                        next question is for message. Take care of
                        the length of the message. You also can
                        specify lu and text in the runstring. TE will
                        prompt you for all he's missing.

```

M008

KILLEXT

KILLS EXTENTS (USE W/ TRANSFER FILES)

```

Contribution Name.....: KILLEXT
Title.....: Kills extents (use w/ transfer files)
File Names.....: 00. Rename transfer file
                  01. KILLEXT.SBMT
                  02. KILLEXT.FTN
                  03. KILLEXT.REL
Operating System(s).....: RTE-A / RTE-6/VM w/ CI vol.
Language(s).....: FTN7X
Keywords.....: 1. Files
                2. Extents
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number.....: 06172 400-402
Telex.....:
Program Abstract.....: Running the program, will kill the type ext.
                        of the filename, if given in the runstring.
                        If there is no extension doesn't matter.
                        EX. killext $1      ( $1 = test.pas )
                        will bring in $return_s => TEST alone.

```



```

Contribution Name.....: BITMAP
Title.....: Disc bit map display
File Names.....: 00. Rename transfer file
                  01. BITMAP.SBMT
                  02. BITMAP.FTN
                  03. BITMAP.REL

Operating System(s).....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. Disc
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number...: 06172 400-402
Telex.....:
Program Abstract.....: An interactive program which shows the
                        use of the bitmap ( blocks used or free );
                        a disc dump to the terminal screen is also
                        possible.

```

```

Contribution Name.....: MORE A TO
Title.....: Paginated list command
File Names.....: 00. Rename transfer file
                  01. MORE A TO.SBMT
                  02. MORE A TO.FTN
                  03. MORE A TO.REL

Operating System(s).....: RTE-A / RTE-VI
Language(s).....: FTN7X
Keywords.....: 1. Files
                  2. Formatting
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: ACHIM ULRICH
Company.....: HEWLETT PACKARD
Street.....: HEWLETT PACKARDSTR.
City.....: BAD HOMBURG v.d.H
State.....: GERMANY
Country.....: GERMANY/EUROPE
Zip Code.....:
Phone Number...: 06172 400-402
Telex.....:
Program Abstract.....: Calling the subroutine in output loops will
                        stop the output after 20 lines of text and ask
                        more ( a to abort ). Similar to the fmlist
                        routine.

```

```

Contribution Name.....: PEDIT
Title.....: Programmatic line editor
File Names.....: 00. Rename Transfer File
                  01. PEDIT.SBMT
                  02. &PEDIT - Source of utility
                  03. &PEDIT - Relocatable
                  04. &PTEST - Source of test program
                  05. &PTEST - Relocatable
                  06. &PTEST - Link file

Operating System.....: RTE-IVB, RTE-6/VM
Language(s).....: FTN4X
Keywords.....: 1. Interactive
                  2. Editor
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Alan Puffett
Company.....: Royal Aircraft Establishment
Street.....:
City.....: Clapham
State.....: Bedfordshire
Country.....: United Kingdom
Post Code.....: MK41 6AE
Phone Number...: 044-234-225562
Telex.....: 825332 MODPE G
Program Abstract.....: This subroutine allows a text string to be
                        displayed at, or entered from a terminal and then modified an unlimited
                        number of times, finally being returned to the calling program. It mimics
                        the pending line edit facility used in EDIT/1000 and allows various modes
                        by means of CTRL & R,C,I,S & L. When satisfied with the contents of the
                        string the user returns it by keying RETURN alone. String handling is as
                        type INTEGER and DECAR is used for string manipulation. However, the buffer
                        in the parameter list may be EQUIVALENCE'd to a CHARACTER variable in the
                        main if this is more convenient. All I/O is through EXEC calls and the
                        formatter is not required.
Additional Documentation....: In source file.

```

```

Contribution Name.....: FIND
Title.....: Find ASCII string on disc
Verrry fast!!
File Names.....: 00. Rename Transfer File
                  01. FIND.SBMT  submit file
                  02. FIND.FTN   FTN sources
                  03. ASUBS.MAC  MACRO sources
                  04. FIND.REL   Relocatable
                  05. ASUBS.REL  Relocatable
                  06. FIND.LOD   LINK command file
Operating System(s)....: RTE-6,A
Language(s).....: Fortran, Assembly
Keywords.....: 1. Disc
               2. ASCII
               3. Search
External Support Req'd...: None
If Re-submission, Reason.: Significantly enhanced
Contributor's Name.....: Alan R. Whitney
Company.....: MIT Haystack Observatory
Street.....: Off Rt. 40
City.....: Westford
State.....: MA
Country.....: USA
Zip Code.....: 01886
Phone Number.....: (508) 692-4764
Telex.....: 948149

```

Contribution Abstract.....:

This is an enhanced version of the program contributed in CSL/1000 Rev 2433. Given a specified ASCII string and a range of tracks to be searched on a specified cartridge or disc-1u, FIND will return the track sector, word# of all occurrences of the specified string. In addition, if the cartridge is a FMGR cartridge, the file name will be displayed if the match was found within the bounds of a file. Case folding may be optionally specified. Occurrences of the ASCII string which cross track boundaries are also properly identified.

FIND is very useful in finding 'lost' ASCII source code or data files, or for tracking down, for example, all calls to a particular subroutine in a large set of source files. Also useful in crises such as salvaging data on a disc with a damaged directory.

FIND is extremely fast, upwards of 150,000 bytes/second on a quiet A900 (without case folding). Since files are never opened by FIND, there are never any delays due to D.RTR. Thousands of files spanning several thousand tracks can be completely searched in a few minutes.

```

Contribution Name.....: MANUAL
Title.....: CSL/1000 Utilities Reference Manual
File Names.....: 00. Rename Transfer File
                  01. MANUAL.SBMT  Submission File.
                  02. MODEL      Model Chapter Documentation.
                  03. UTIL       Utilities Ref Mnl (RNOFF input)
                  04. ADL        ADL Documentation
                  05. CALCU      Calculator Documentation
                  06. CALLS      Calls Documentation
                  07. CHECK      Check Priority Documentation
                  08. CLASS      Class Documentation
                  09. CLRRN      Clrrn Documentation
                  10. CMM6       Cmm6 Documentation
                  11. CMPAR      Cmpar Documentation
                  12. COMPI      Compile Documentation
                  13. CPUSE      Cpose Documentation
                  14. CRTID      Crtid Documentation
                  15. DBCPD      Dbcprd Documentation
                  16. DBCPM      Dbcprm Documentation
                  17. DBEXP      DbExplain Documentation
                  18. DBMOD      Dbmod Documentation
                  19. DBMOV      Dbmov Documentation
                  20. DBSEC      Dbsec Documentation
                  21. DBSPB      Dbspb Documentation
                  22. DBSPC      Dbspc Documentation
                  23. DCODE      Dcode Documentation
                  24. DFIND      Dfind Documentation
                  25. DI        Di Documentation
                  26. DLX       Dlx Documentation
                  27. FL        Fl Documentation
                  28. GETEM      Getem Documentation
                  29. GETRS      Getrs Documentation
                  30. IDENT      Ident Documentation
                  31. KEDIT      Kedit Documentation
                  32. LIBLS      Libls Documentation
                  33. LIBRN      Librn Documentation
                  34. LINKS      Links Documentation
                  35. LOGOU      Logout Documentation
                  36. LOOK       Look Documentation
                  37. LUSTAT     Lu Status Documentation
                  38. M2240     M2240 Documentation
                  39. MEDIT
                  40. METER      etc....
                  41. ORCAM
                  42. PAGID
                  43. PARTI
                  44. PFILE
                  45. POSNT
                  46. PRIME
                  47. PSCRN
                  48. QXREF
                  49. RATFR
                  50. ROM
                  51. RXREF
                  52. SAM
                  53. SAMSZ
                  54. SEKR
                  55. SEOWM
                  56. SHOWI

```

```

:57. [SNAPS
:58. [SORT
:59. [SPECT
:60. [SPOOL
:61. [T2608
:62. [TASC
:63. [THINK
:64. [TIME
:65. [TRIME
:66. [TRKCK
:67. [TSTGR
:68. [TYPE6
:69. [UNPUR
:70. [UPDF1
:71. [URESN
:72. [USAGE
:73. [VERIF
:74. [WHO
:75. [XRSYS
:76. [ZOT
:77. [MANUAL.TXT

Operating System(s).....:
Language(s).....:
Keywords.....: 1. documentation
External Support Req'd....:
If Re-submission, Reason.: Added 70 programs to the original
Contributor's Name.....: Antero Airola
Company.....: Kemira OY
Street.....: PL 36
City.....: Pori
State.....:
Country.....: Finland
Zip Code.....: 28101
Phone Number...: 939-443555
Telex.....:
Contribution Abstract.....:
This contribution is a Utilities Reference Manual which describes the
use, operation, and installation of several HP-1000 utility programs from
various CSL Tapes.

```

Documentation for each of the above utilities is contained in a file with the name [xxxxx]. For example, the documentation for the MGETX program is in the file [MGETX].

The file [UTIL] is used as the input file to the RNOFF program (submission 1012 in CSL Rev. 2433) to generate the printable manual, MANUAL as shown below:

```
RN,RNOFF,[UTIL,MANUAL
```

A hardcopy of the Utilities Reference Manual can be obtained by simply dumping the output file (Manual.txt) to the printer.

```
Print Manual.txt
```

The documentation file for each utility, such as [WRITX], is similar to a FMGR transfer file or a Fortran INCLUDE file and is referenced by the main documentation file [UTIL].

The file [MODEL] is simply a model for a chapter in the Utilities Reference Manual. When a new utility is to be added, [MODEL] is used to create the [xxxxx] file so that some consistency is maintained.

If you wish to change the manual (such as the name of the front cover) use EDIT/1000 to change the appropriate documentation input file [xxxxx]. Then, use RNOFF to generate a new output.

Refer to the documentation for the RNOFF utility (a separate submission) for further details regarding the generation of formatted manuals.

This is a re-submission of I030 in CSL/1000 Rev. 2433. I have added documentation for 70 more CSL programs, which we have found useful at our site.

MSGCOM

M014

MSGCOM (MISSING FILES FROM LIBC FROM CSL/1000 REV 2730)

```

Contribution Name.....: MSGCOM
Title.....: MSGCOM (missing files from LIBC from CSL/1000 Rev 2730)
File Names.....:00. Rename Transfer File
:01. MSGCOM.SBMT
:02. MSGCOM.FTN (fortran source)
:03. MSGCOM.FTNI (include file)
Operating System(s).....: RTE-A or RTE-6/VM
Language(s).....: Ptn7x
Keywords.....: 1. library
External Support Req'd....: LIBC
If Re-submission, Reason.: left off of LIBC contribution
Contributor's Name.....: Bill Donze
Company.....: Reliance Electric
Street.....: 29325 Chagrin Blvd.
City.....: Cleveland
State.....: Ohio
Country.....: USA
Zip Code.....: 44122
Phone Number...: (216) 266-7619
Telex.....:
Contribution Abstract.....:
These files were inadvertently omitted from the LIBC contribution
of CSL/1000 Rev 2730, and are submitted here for completeness.
Additional Documentation....: See source code

```

FFP24

E-SERIES DOUBLE-INTEGERS AND DOUBLE-PRECISION MICROCODE

M015

```

Contribution Name.....: FFP24
Title.....: E-series double-integer and double-precision microcode
File Names.....:00. Rename Transfer File
:01. FFP24.SBMT

```

```

:02. "FFP24      documentation
:03. "FFP       Install instr. (FEM / FAB)
:04. $FFP24    Microcode source
:05. XFEMUC    Microcode object, FEM
:06. XFABUC    Microcode object, FAB
:07. !FEMHX    Hex PROM burn file, FEM
:08. !FABHX    Hex PROM burn file, FAB
:09. $FEMRP    RPL file, FEM board
:10. $FABRP    RPL file, FAB board
:11. XFEMRP    Relocatable
:12. XFABRP    Relocatable

Operating System(s).....:
Language(s).....: Assembly
Keywords.....: 1. Microcode
                2. Entry points
External Support Req'd...: FEM / FAB boards
If Re-submission, Reason.:
Contributor's Name.....: Bill Gibbons
Company.....: Mirkheim Systems
Street.....: PO Box 203
City.....: Los Altos
State.....: CA
Country.....: USA
Zip Code.....: 94023
Phone Number...: (415) 949-5021
Telex.....:
Contribution Abstract.....:
    Twenty-seven instructions are provided:

    Double Integer:      .DAD      .DNG      .DIN      .DMOD
                        .DSB      .DCO      .DDE
                        .DMP      .DSBR     .DIS
                        .DDI      .DDIR     .DDS

    Floating-point:     .TADD     .TFXS     .FIXD     .NGL
                        .TSUB     .TFXD     .FLTD     .BLE
                        .TMPY     .TFTS     .FCM
                        .TDIV     .TFTD     .TCM

    These instructions perform the same operations as the F-series
    instructions with the same names, but operate on an E-series computer.
    They provide all of the arithmetic operations on double integer
    (INTEGER*4) and double precision (REAL*8) numbers. The ".DMOD"
    instruction is not found on the F-series; it computes a double
    integer remainder.
    Additional Documentation.....: See "FFP24

```

GREP/1000

M016

UNIX/EGREP FOR THE HP-1000

```

Contribution Name.....: GREP/1000
Title.....: UNIX/EGREP FOR THE HP-1000
File Names.....: 00. Rename Transfer File
                 01. GREP SBMT
                 02. LOAD.CMD
                 03. GREP.LOD
                 04. GREP.FTN
                 05. LIB BUILD PAT.FTN
                 06. LIB FILES.FTN
                 07. LIB GET RUN STRI.FTN
                 08. LIB GREP.FTN
                 09. LIB SEARCH PAT.FTN
                 10. GREP.COM
                 11. USER.DOC
                 12. GREP.HELP
                 13. PROGRAMMERS.DOC
                 14. COMPARISON

Operating System(s).....: RTE-A 4.1, 5.0 (Others with modifications)
Language(s).....: FTN7X
Keywords.....: 1. UNIX
                2. SEARCH
                3. FILES
External Support Req'd...: CDS, HPCRT.LIB
If Re-submission, Reason.: N/A
Contributor's Name.....: Brian Gray
Company.....: General Tire & Rubber
Street.....: 1 General St
City.....: Akron
State.....: Ohio
Zip Code.....: 44329
Phone Number...: 216-798-2026
Contribution Abstract.....: GREP IS AN IMPLEMENTATION OF THE UNIX
    EGREP UTILITY, WITH EXTENSIONS TO ADD ALL REGULAR EXPRESSION
    CAPABILITIES OF EDIT/1000. SOME DEFAULT VALUES HAVE BEEN CHANGED
    FOR EASE OF USE IN THE HP-1000 ENVIRONMENT.

    REGULAR EXPRESSIONS ALLOW THE SPECIFICATION OF A COMPLEX SEARCH PATTERN
    IN A COMPACT FORM. THIS PATTERN IS USED IN SEARCHING ALL LINES OF
    SPECIFIED FILES.

    Additional Documentation.....: A COMPLETE DESCRIPTION OF REGULAR EXPRESSIONS
    AND THEIR USE IS FOUND IN USER.DOC. NOTES ON THE CONSTRUCTION OF THE
    PROGRAM, AND MODIFICATIONS TO THE PROGRAM, ARE FOUND IN
    PROGRAMMERS.DOC. ADDITIONAL NOTES ARE FOUND IN THE SOURCE CODE.

    CDS IS REQUIRED FOR THIS PROGRAM BECAUSE IT USES A RECURSIVE
    ALGORITHM TO SEARCH EACH SOURCE LINE.

```

KALAHA

M017

AN OLD AFRICAN GAME

```

Contribution Name.....: KALAHA
Title.....: An old African game
File Names.....: 00. Rename Transfer File
                 01. Kalaha.sgmt - submission file
                 02. Kalaha.hlp - help/doc file
                 03. Kalaha.pas - source file
                 04. Kalaha.rel - reloc file
                 05. Kalaha.lod - load file

```

```

Operating System(s).....: None
Language(s).....: Pascal 1000
Keywords.....: 1. Games
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Claude Schmit
Company.....: General Motors
Street.....: route de Luxembourg
City.....: Bascharage
State.....:
Country.....: Grand-Duche de Luxembourg
Zip Code.....: 4940
Phone Number...: (352) 5018-356
Telex.....:
Contribution Abstract.....: This program plays an old African game called
Kalaha. The program uses the powerful recursion algorithm with alpha-beta
pruning. The source is short, the rules of the game are simple, but you
will have a hard time beating the computer with a difficulty level
greater than 3. The source is in fully-portable Pascal, so you can port
it to an IBM/PC (or compatible) or any other computer with a Pascal
compiler. The program needs display enhancement; I left it like that
for portability reasons.

Additional Documentation....: See Kalaha.hlp for the rules explanations.

```

TIME

MO18

TIME UTILITY AS IN (HOPEFULLY) UNIX

```

Contribution Name.....: Time
Title.....: Time utility as in (hopefully) UNIX
File Names.....:00. Rename Transfer File
                  :01. Time.sbmt
                  :02. Time.ftn
                  :03. Time.rel
                  :04. Time.lod
                  :05. Time.make
                  :06. Time.help

Operating System(s).....:
Language(s).....: FTN7x
Keywords.....: 1. TIME
               2. DATE
               3. UNIX

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Dan Felman
Company.....: HP
Street.....:
City.....: Rockville
State.....: MD
Country.....: USA
Zip Code.....:
Phone Number...:
Telex.....:
Contribution Abstract.....:
Additional Documentation....:

```

The time program is modeled after UNIX's version and follows the same convention for reporting. TIME will report wall clock time as well as cpu usage. What is not reported is rte usage by the program being timed, since it is impossible to determine from the system.

Usage: [ru,] time, prog [,arguments]

CUT

MO19

LINE-RANGE CUT-FILE UTILITY

```

Contribution Name.....: Cut
Title.....: Line-range cut-file utility
File Names.....:00. Rename Transfer File
                  :01. Cut.sbmt
                  :02. Cut.ftn
                  :03. Cut.rel
                  :04. Cut.lod
                  :05. Cut.make
                  :06. Cut.help

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

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Dan Felman
Company.....: HP
Street.....:
City.....: Rockville
State.....: MD
Country.....: USA
Zip Code.....:
Phone Number...:
Telex.....:
Contribution Abstract.....:
Additional Documentation....:

```

CUT is a utility modeled after the similarly named program available under UNIX.

CUT allows you to cut out certain columns out of lines of a file[s]. Ranges may be given in various formats and must follow the '-c' option without spaces. Commas must separate each additional range given, and must come before the file name is given.

Output redirection is supported. As in Unix, use the '>' character preceding a file name or a device lu. The default is to output to lu 1.

usage: cut -c[list] fileMask [> file/lu]

DISC UTILITIES FOR RTE-A, VERSION 5.0. NON CDS

```

Contribution Name.....: ADISCU
Title.....: Disc utilities for RTE-A, version 5.0. Non CDS
File Names.....:00. Rename Transfer File [See Note 1.]
                  :01. ADISCU.SBMT - This file
                  :02. MAP.FTN - Bitmap display
                  :03. MAP.REL
                  :04. MAP.LOD
                  :05. MAP.MAKE
                  :06. DIDI.FTN - Single Directory Display
                  :07. DIDI.REL
                  :08. DIDI.LOD
                  :09. DIDI.MAKE
                  :10. UNPUNLEVELDIR.FTN - Unpurge an N-level subdi
                  :11. UNPUNLEVELDIR.REL
                  :12. UNPUSUBDIR.FTN
                  :13. UNPUSUBDIR.REL
                  :14. UNPUSUBDIR.LOD
                  :15. UNPUSUBDIR.MAKE
                  :16. UNPU2LEVELDIR.FTN
                  :17. UNPU2LEVELDIR.REL
                  :18. UNPU2LEVELDIR.LOD
                  :19. UNPU2LEVELDIR.MAKE
                  :20. PUNLEVELDIR.FTN - Purge an N-level subdi
                  :21. PUNLEVELDIR.REL
                  :22. PU2LEVELDIR.FTN
                  :23. PU2LEVELDIR.REL
                  :24. PU2LEVELDIR.LOD
                  :25. PU2LEVELDIR.MAKE - Converts CSL tape
                  :26. CSLMAKEDIR.FTN
                  :27. CSLMAKEDIR.REL
                  :28. CSLMAKEDIR.LOD
                  :29. CSLMAKEDIR.MAKE - Interprets disc DVT's
                  :30. DISCMAPS.FTN
                  :31. DISCMAPS.REL
                  :32. DISCMAPS.LOD
                  :33. DISCMAPS.MAKE - An N-level test subdi
                  :34. X.COMD
                  :35. ALL.MAKE - FORtran LOad and GO
                  :36. FOLOGO.COMD - Command it & stand back
                  :37. LOADRUNALL.COMD - Link command file
                  :38. ADISCU.LOD - Documentation ASCII file
                  :39. ADISCU.DOC
Operating System.....: RTE-A A.85 and up including 5.0. Perhaps -6
Language(s).....: FTN7X
External Support Req'd....: None
If Re-submission, Reason...: Tested to 430k blocks. Operating system change
                              forced algorithm changes. Cosmetic changes.
Keywords.....:01. SYSTEM
              :02. SYSTEM_TABLES
              :03. DISC
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number.....: (01) 486 9590
Program Abstract.....:

```

This contribution consists of various disc utilities hitherto unsupported by HP. The fact that various RTE commands traverse the directory-tree in the wrong direction or not at all hinders some fast and furious disc management actions. Basically the purging program uses only FMP routines. The unpurging program uses absolute disc read/write orders to unpurge subdirectories, and FMPUNPURGE to unpurge files. Unpurging subdirectories is not supported by HP and in any case it is a very drastic operation. The purging/unpurging should only be undertaken by people who know what they are doing. MAP and DIDI are support programs to display the results of purging and unpurging, but are also very useful on their own. CSLMAKEDIR is a program that takes a CSL tape TF/PST'ed into a global directory and creates subdirectories named Jxxx where J stands for the tape letter and xxx for the contribution number. It then renames all the file in accordance with the Xxxx00 file in each subdirectory. See the writeup for DISCMAPS in the Jan/Feb 1986 issue of TC INTERFACE.

X.COMD creates a global directory /X and fills it with various files and 10 levels of subdirectories. This /X directory then provides exercising and demonstrating opportunities.

FOLOGO.COMD compiles, loads and runs a program and LOADRUNALL.COMD will do it for all the programs and X.COMD as well.

A word of apology: The somewhat verbose names were chosen to eliminate an inadvertent initiation of drastic actions. You can always rename the files. Also, in order to make all units stand alone, each contains all required subroutines, at the expense of some duplication.

A word of warning: Read the usual HP notices of disclaimer to be found on the back side of the title page to all their manuals. As all these programs go beyond the designs of HP you are really on your own when using them. I assume no responsibility whatsoever for any damage that may ensue- direct, consequential or of any other kind. You are entirely responsible!

After having thus frightened the potential user, I hasten to add that no damage was ever done by these programs in my installation. Read ADISCU.DOC documentation, and follow the instructions given there.

This is a re-submission of the CSL2625 contribution which was limited by testing to a disc size of 128k with an allocation unit of 1. The current contribution was tested with an allocation unit of 4, and hence is suitable for all sizes. There are also several cosmetic changes of the displays.

Modified CSLMAKEDIR xxx00 filenames to xxxx00.COMD to conform to any PATH's.

D5.0 forced some changes, mainly caused by undocumented features of D.RTR.

PUNLEVELDIR is a new program, removed from VDISCU, and not requiring VC+.
UNPUNLEVELDIR is a new program, as above. Both algorithms are new.

For D5.0 your D.RTR should have an EMA size of less than 41 pages.

FINDPAT

M021

FAST PATTERN FINDER VERSION 5.1

```

Contribution Name.....: FINDPAT
Title.....: Fast pattern finder version 5.1.
File Names.....:00. Rename Transfer File
                  :01. FINDPAT.SBMT
                  :02. FINDPAT.FTN   Source file
                  :03. FINDPAT.REL
                  :04. FINDPAT.HELP  Help file
                  :05. FINDPAT.MAKE
                  :06. FINDPAT.DOC   Documentation
                  :07. IGETC.MAC    From HSLIB.LIB
                  :08. IGETC.REL
                  :09. FINDPAT.CMD   Compile and link
                  :10. FINDPAT.LOD   Link file
                  :11. F20.DAT      Output (sample speed file)
                  :12. R20.DAT      Raw file reading speed file
Operating System.....: RTE-A (including 5.0) and perhaps 6.
Language(s).....: FTN7X and MACRO.
External Support Req'd...: None
If Re-submission, Reason.:
Keywords.....:01. TOOLS
              :02. SEARCH
              :03. FILTER
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number...: (01) 486 9590

```

Program Abstract.....
 FINDPAT is a very fast pattern finder. It usually runs at about 80% of the file raw reading speed. It easily achieves speeds of more than 125,000 bytes per second on the A900 when running as the sole job. This makes it very much faster than previous pattern finders contributed to CSL.

The algorithm used is the Boyer-Moore one, to be found in subroutine BOYER. This algorithm is one of those pearls that give great pleasure to programmers accustomed, at best, to $N \log N$ speeds. It actually performs at close to M/N speeds, where M is the record size and N is the pattern size.

Usage: FINDPAT, 'PATTERN', [FILEMASK], [OPTIONS], [LIST FILE/LU]
 or : XQ,FINDPAT,'PATTERN',[FILEMASK],Q(+ other OPTIONS),[LIST FILE/LU]

OPTIONS:

```

A: List matching lines and count
C: List count of matching lines only
F: List filenames only (count=1)
I: Casefold lower case letters - implies A
M: Count multimatches on same line - implies A
Q: Quiet - no listing to terminal - implies A
T: List lines matched in total only - implies A
Y: Directory files allowed with text files - implies A
Z: Non-text files allowed - implies Y

```

DEFAULTS:

```

OPTIONS : F - Filename only
MASK    : @
LIST    : Terminal only
LIST FILE: FINDPAT.DAT if Q option

```

The output includes the number of files matching the mask, as well as the number of records and bytes read. So by specifying a non-existent pattern one gets just these statistics.

Additional Documentation....: DOC and HELP files.

PATCHBITMAP

M022

CHANGE SENSE OF BITS IN DISC LU BITMAPS

```

Contribution Name.....: PATCHBITMAP
Title.....: Change sense of bits in disc LU bitmaps
                  sector-allocation, version 5.1
File Names.....:00. Rename Transfer File [by CSL]
                  :01. PATCHBITMAP.SBMT - This file
                  :02. PATCHBITMAP.FTN - Source file
                  :03. PATCHBITMAP.REL
                  :04. PATCHBITMAP.CMD - Compile and link
                  :05. PATCHBITMAP.LOD - Link command file
                  :06. PATCHBITMAP.MAKE
Operating System(s).....: RTE-A D4.0 and up (including 5.0). Perhaps -6
Language(s).....: FTN7X
External Support Req'd...: None
If Re-submission, Reason.: Tested to 430k blocks. Cosmetic changes.
                          Tested on discs with various sectors/track.
Keywords.....:01. SYSTEM
              :02. SYSTEM TABLES
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number...: (01) 486 9590
Contribution Abstract.....:

```

Usage: PATCHBITMAP,DISCLU,LOCATION,SIZE,LISTLU.

This contribution consists of a utility hitherto unsupported by HP. It may happen that a bitmap is corrupted to show free area as occupied or occupied area as free. Such a corruption will normally be discovered by FVERI. The usual method of recovery is to TF off the disc LU, reinitialize and TF back, tedious at best.

This program will change the sense of a contiguous set of bits on DISCLU starting at LOCATION for SIZE bits. On sets, (and the whole set has to be on) will be turned off and vice-versa.

Recover from wrongly specified parameters by running the program again with the same wrong parameters.

This program may be a very destructive time bomb type weapon in the hands of a careless user, therefore

```
*****
* Do not keep it on disc ! Keep it off-line ! *
*****
```

But when you FST this program back on, do not use the damaged LU since if the damage is showing occupied space as free, you may write over useful data.

A word of apology: The somewhat verbose name was chosen to eliminate an inadvertent initiation of a drastic action. You can always rename the file.

A word of warning: Read the usual HP notices of disclaimer to be found on the back side of the title page to all their manuals. As this program goes beyond the designs of HP you are really on your own when using it. I assume no responsibility whatsoever for any damage that may ensue- direct, consequential or of any other kind. You are entirely responsible!

After having thus frightened the potential user, I hasten to add that no damage was ever done by this program in my installations.

For example, the command PATCHBITMAP,17,25000,10 results in the following:

```
Total number of tracks : 932
Total number of blocks  : 44736
Blocks per allocation unit : 1
Volume Header address at : 44688
Bitmap address at       : 0
Global Dirs. address at : 22
```

BITMAP BEFORE MODIFICATION

```
Block# +0      10      20      30      40      50      60
-----2496U *****
```

BITMAP AFTER MODIFICATION

```
Block# +0      10      20      30      40      50      60
-----2496U *****
```

NOTE: * equals the allocation unit. is the end of the LU

This is a re-submission of the CSL2730 contribution which was limited by testing to a disc size of 128k with an allocation unit of 1. The current contribution was tested with an allocation unit of 4, and hence is suitable for all sizes. There are also several cosmetic changes of the displays. Also testing was carried out on various sectors/track configurations. Additional Documentation.....: None.

VDISCU

M023

DISC UTILITIES FOR RTE-A VC+ VERSION 5.0

```
Contribution Name.....: VDISCU
Title.....: Disc utilities for RTE-A VC+ version 5.0.
File Names.....: 00. Rename Transfer File [See Note 1.]
                  01. VDISCU.SBMT - This file
                  02. DIAL.FTN - N-level Directory
                  03. DIAL.REL - display (All)
                  04. DIAL.LOD - Unpurge N-level subdir
                  05. UNPUNLEVELDIR.FTN - Purge N-level subdir
                  06. UNPUNLEVELDIR.REL
                  07. UNPUNLEVELDIR.LOD
                  08. PUNLEVELDIR.FTN - Purge N-level subdir
                  09. PUNLEVELDIR.REL
                  10. PUNLEVELDIR.LOD
                  11. Y.COMD - A 10-level test subdir
                  12. FOLOGO.COMD - FORtran LOad and GO
                  13. LOADRUNALL.COMD - Command it & stand back
                  14. VDISCU.DOC
                  15. VDISCU.MAKE
Operating System.....: RTE-A A.85 and up including 5.0. VC+ only
Language(s).....: FTN7X
If Re-submission, Reason.: Tested to 430k blocks. Operating system changes
forced algorithm changes. Cosmetic changes.
External Support Req'd...: None
Keywords.....: 01. SYSTEM
                02. SYSTEM TABLES
                03. DISC
                04. MAP
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number...: (01) 486 9590
Program Abstract.....:
```

This contribution consists of various disc utilities hitherto unsupported by HP. The fact that various RTE commands traverse the directory-tree in the wrong direction or not at all hinders some fast and furious disc management actions. Basically the purging program uses only FMP routines. The unpurging program uses absolute disc read/write orders to unpurge subdirectories, and FMPUNPURGE to unpurge files. Unpurging subdirectories is not supported by HP and in any case it is a very drastic operation. The purging/unpurging should only be undertaken by people who know what they are doing. MAP and DIAL are support programs to display the results of purging and unpurging, but are also very useful on their own. MAP is to be found in contribution ADISCU.

VC+ is required since DIAL is recursive. The power and the economy of

programming effort afforded by recursion as available with CDS is well worth the ownership of VC+. The recursion was removed from the other programs, and they are copies of those in ADISCU, repeated here for historical reasons.

Y.COMD creates a global directory /Y and fills it with various files and ten levels of subdirectories. This /Y directory then provides exercising and demonstrating opportunities.

FOLOGO.COMD compiles, loads and runs a program and LOADRUNALL.COMD will do it for all the programs and Y.COMD as well.

A word of apology: The somewhat verbose names were chosen to eliminate an inadvertent initiation of drastic actions. You can always rename the files. Also, in order to make all units stand alone, each contains all required subroutines, at the expense of some duplication.

A word of warning: Read the usual HP notices of disclaimer to be found on the back side of the title page to all their manuals. As all these programs go beyond the designs of HP you are really on your own when using them. I assume no responsibility whatsoever for any damage that may ensue- direct, consequential or of any other kind. You are entirely responsible!

After having thus frightened the potential user, I hasten to add that no damage was ever done by these programs in my installation. Read VDISCU.DOC documentation, and follow the instructions given there.

This is a re-submission of the CSL2625 contribution which was limited by testing to a disc size of 128k with an allocation unit of 1. The current contribution was tested with an allocation unit of 4, and hence is suitable for all sizes. There are also several cosmetic changes of the displays.

D5.0 forced some changes, mainly caused by undocumented features of D.RTR.

PUNLEVELDIR is a new program, not requiring VC+.

UNPUNLEVELDIR is a new program, as above. Both algorithms are new.

For D5.0 your D.RTR should have an EMA size of less than 41 pages.

Additional Documentation....: VDISCU.DOC.

CHANGEPAT

FAST PATTERN EXCHANGER VERSION 5.0

M024

Contribution Name.....: CHANGEPAT
Title.....: Fast pattern exchanger version 5.0.
File Names.....:00. Rename Transfer File [by CSL]
 :01. CHANGEPAT.SBMT - This file.
 :02. CHANGEPAT.FTN - The source.
 :03. CHANGEPAT.HELP - Help file.
 :04. CHANGEPAT.DOC - Write-up file.
 :05. IGETC.MAC - From HAYSTACK.LIB.
 :06. CHANGEPAT.CMD - Compile and link.
 :07. CHANGEPAT.LOD - Link command file.
Operating System.....: RTE-A (including 5.0) and perhaps 6.
Language(s).....: FTN7X and MACRO.
External Support Req'd...: None
If Re-submission, Reason...:
Keywords.....:01. TOOLS
 :02. FILTER
 :03. SEARCH
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number...: (01) 486 9590
Program Abstract.....:

CHANGEPAT is a fast text pattern exchanger built along the same lines as the companion pattern finder - FINDPAT. It first uses a fast searching algorithm to find the files containing the pattern, and then backtracks to perform the exchanges, with the option to omit the first searching step.

The search algorithm used is the Boyer-Moore one, to be found in subroutine BOYER. It is used both in the first step to locate the file, and then to locate the pattern within the file. This algorithm is one of those pearls that give great pleasure to programmers accustomed, at best, to $N \log N$ speeds. It actually performs at close to M/N speeds, where M is the record size and N is the pattern size. (See FINDPAT.DOC)

Usage: CHANGEPAT, '-OLDPAT', '>NEWPAT', FILEMASK, [OPTIONS], [LIST FILE/LU]
Note optional 's and required = > for patterns.
Use for commas within patterns.

OPTIONS:

A: List exchanges and count
C: List count of exchanges only
D: Directly start exchange operation - implies A
I: Casefold lower case letters - implies A
Q: Quiet - no listing to terminal - implies A

DEFAULTS:

OPTIONS : List exchanges, no Direct.
 Usually faster since the
 write operation will only
 proceed for files with at
 least one match at the
 expense of backtracking.
LIST : Terminal only
LIST FILE: CHANGEPAT.DAT IF Q option

A word of warning: Read the usual HP notices of disclaimer to be found on the back side of the title page to all their manuals. As this program goes beyond the designs of HP you are really on your own when using it. I assume no responsibility whatsoever for any damage that may ensue- direct, consequential or of any other kind. You are entirely responsible!

Additional Documentation....: DOC and HELP files.

CHANGING RPL'S FOR PROGRAM TRANSFERS VERSION 5.1

```

Contribution Name.....:CHANGERPL
Title.....:CHANGING RPL's for PROGRAM TRANSFERS version 5.1
File Names.....:00. Rename Transfer File [by CSL]
                  :01. CHANGERPL.SBMT - This file
                  :02. CHANGERPL.FTN - Source file
                  :03. CHANGERPL.LOD - Link command file
                  :04. Y.CMD - A 10-level test dir.
                  :05. FOLOGO.CMD - FORtran LOad and GO
                  :06. LOADRUN.CMD - Command it & stand back
                  :07. TEST.REL - A .REL file for testing
                  :08. TEST.LOD - A Link file for above
                  :09. FUNNY.SNP - A Snap file for above
Operating System.....: RTE-A A.85 and up (including 5.0). Perhaps -6
Language(s).....: FTN7X
External Support Req'd...: None
If Re-submission, Reason.: Operating system update. Improved selectivity.
                          : Removed recursion.
Keywords.....:01. SYSTEM
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number...: (01) 486 9590
Program Abstract.....:

```

This contribution consists of a utility hitherto unsupported by HP. The fact that various RTE commands traverse the directory-tree in the wrong direction or not at all hinders some fast and furious disc management actions. I develop programs on any A-series machines for running on any of the others. RTE-A has the feature of sometimes refusing to run programs on a machine having a different SNAP file. After a first try the machine reports "changed RPL checksum" and quits. The second try will usually succeed. Sometimes you have to relink the program on a target machine, but this is heralded by a message "illegal program file". Any way, the first type of refusal is bad enough, and seems unnecessary, especially when you have a long chain of fathers running children and grandchildren. The method used by me is to have all the new programs and sources in a global directory called /UPDATE which contains a command file whose first command is CHANGERPL and the rest distribute the programs and the sources etc. to their respective directories. Thus CHANGERPL defaults to trying the @.RUN files in /UPDATE but will go to a directory supplied in the runstring, and all the subdirectories as well. RPL will be changed on all type 6 files, even if they do not have the .RUN extension.

Y.CMD creates a global directory /Y and fills it with various files and various levels of subdirectories. This /Y directory then provides exercising and demonstrating opportunities.

FOLOGO.CMD compiles, loads and runs a program and LOADRUN.CMD will invoke it and exercise the program as well by invoking also the Y.CMD.

TEST.RUN is a program linked with a funny SNAP file on an A600+, thus will force an RPL change. This is done automatically by the Y.CMD.

It may be that FUNNY.SNP will like your system. Then you must use one not appropriate to your machine to get the full demonstration. Otherwise, and in case you loaded TEST.RUN inadvertently, CHANGERPL will still go through the motions, but without issuing the "changing RPL" message.

A word of apology: The somewhat verbose names were chosen to eliminate an inadvertent initiation of drastic actions. You can always rename the files. Also, in order to make all units stand alone, each contains all required subroutines, at the expense of some duplication.

A word of warning: Read the usual HP notices of disclaimer to be found on the back side of the title page to all their manuals. As all these programs go beyond the designs of HP you are really on your own when using them. I assume no responsibility whatsoever for any damage that may ensue- direct, consequential or of any other kind. You are entirely responsible!

FAST DIRECTORY TREE LISTER VERSION 5.0

```

Contribution Name.....: DIRTREE
Title.....: Fast Directory Tree Lister version 5.0.
File Names.....:00. Rename Transfer File [by CSL]
                  :01. DIRTREE.SBMT - This file.
                  :02. DIRTREE.FTN - The source.
                  :03. DIRTREE.CMD - Compile and link.
                  :04. DIRTREE.LOD - Link command file.
Operating System.....: RTE-A (including 5.0) and perhaps 6.
Language(s).....: FTN7X.
External Support Req'd...: None
If Re-submission, Reason.:
Keywords.....:01. DIRECTORY
Contributor's Name.....: Dan Khoushy
Company.....: Marine Computing Ltd.
Street.....: 83, Marylebone High Street
City.....: London
State.....:
Country.....: United Kingdom
Zip Code.....: W1
Phone Number...: (01) 486 9590
Program Abstract.....:
Invoke DIRTREE.CMD to compile and link DIRTREE.FTN.
Usage: DIRTREE [DISCLU OR /DIR[/SUBDIR.DIR] OR ALL] [LISTLU OR FILE] [F]
Use the F option to invoke FREES at the end of DIRTREE for DISCLU's
Example: DIRTREE 16,,F gives:

```

LU	Directory or Subdirectory	Files	Blocks	Cumltiv
16	/SYSTEM	58	3158	3158
16	/CATALOGS	6	386	3544
16	/EMERPROG	48	8436	11980
16	/USERS/HELP	19	240	12220
16	/USERS	50	542	12762
16	/HELP/ERROR	1	566	13328
16	/HELP	150	1426	14754
16	VOLUME DIRECTORY	5	16	14770
16	RESERVED + HEADER		1537	14770
16	BITMAP		10	16317
	TOTAL in Data Space			

Volume size 19200. Free blocks 2883. % Free 15.02 Allocation units 1

NOTE: Blocks report occupied space. Thus a file of size 1 where the allocation unit is 4 will occupy 4 blocks.

End Directory Tree Listing - Sat Apr 16, 1988 11:55:12 am

LU	Total	Resvd.	Free	%free	Max Free	%max *
16	19200	1536	2883	15	2836	98

(* largest free space as % of total free space)

HEAPSORT

M027

HEAPSORT AND INSERTIONSORT VERSION 5.2

Contribution Name.....: HEAPSORT
 Title.....: Heapsort and Insertionsort version 5.2.
 File Names.....: 00. Rename Transfer File [by CSL]
 : 01. HEAPSORT.SBMT - This file
 : 02. LONGHEAPSORT.FTN - Including heap routines
 : 03. HEAPSORT.FTN - A combined fast version
 : 04. HEAPSORT.DOC - Some theory and timing.
 Operating system(s).....: All
 Language(s).....: FTN7X
 External Support Req'd...: None
 If Re-submission, Reason.: Corrected a bug in calling Insertion Sort.
 Keywords;.....: 01. SORT
 Contributor's Name.....: Dan Khoushy
 Company.....: Marine Computing Ltd.
 Street.....: 83, Marylebone High Street
 City.....: London
 State.....:
 Country.....: United Kingdom
 Zip Code.....: W1
 Phone Number...: (01) 486 9590
 Program Abstract.....:

Workhorse sorting subroutines are very often required in real-life programming situations. There is usually a Hobson's choice between a larger sorting package or writing an ad-hoc subroutine which gets the job done albeit inefficiently. The larger sorting package may be extravagant in their memory requirement or not particularly suitable for the job at hand.

The LONGHEAPSORT set of three subroutines are good candidates to join the library in the workhorse role. The familiar Insertion sort routine is fast for small vectors and very fast for almost-sorted vectors of any size. The Heap sort routine is of time complexity $N \cdot \log(N)$ and hence very fast for large vectors. Quicksort may be faster by a factor of 2 under some situations but may have a pathological behavior which will make it extremely slow under some other situations.

About 10% time may be gained by combining the heap subroutines thus avoiding the CALL overheads. Omitting CDS will speed matters up by a further 20%.

The faster combined version of the subroutine appears as HEAPSORT.FTN.

Usage: CALL HEAPSORT(TABLE, TABLESIZE)

This is a re-submission of the CSL2730 contribution, to correct a bug in the call to Insertionsort.

Additional Documentation.....: See HEAPSORT.DOC

ECALC

M028

EXPRESSION CALCULATOR

Contribution Name.....: Ecalc
 Title.....: Expression Calculator
 File Names.....: 00. Rename Transfer File
 : 01. Ecalc.sbmt - Submission file
 : 02. Ecalc.ftn - Source file
 : 03. Ecalc.rel - Relocatable file
 : 04. Ecalc.help - Help file
 : 05. Ecalc.lod
 : 06. Ecalc.make
 Operating System(s).....: RTE-6/VM
 Language(s).....: FTN77
 Keywords.....: 1. Calculator
 External Support Req'd...: None
 If Re-submission, Reason.:
 Contributor's Name.....: Darryl C. Bryk
 Company.....: U.S. Army TACOM
 Street.....: AMSTA-RSA
 City.....: Warren
 State.....: MI
 Country.....: U.S.A.
 Zip Code.....: 48090
 Phone Number...: (313) 574-7752
 Telex.....:
 Contribution Abstract.....: This program calculates the result of an interactively entered arithmetic expression. The operands and operators are stored in separate stacks and

popped off as needed to evaluate the expression according to the usual operator precedence rules. Parentheses may be used to alter the precedence rules. For example, an expression such as:

```
2 * (sin(rad(90.0/2.)) - 3.2**3.5) + 1,000.0
```

may be entered as shown and the result is calculated. The number of decimal places that are shown in the result is the same as the greatest that is given in the expression or to at least one decimal place, whichever is greater. This program may easily be ported to other machines with Fortran by changing the calls to FTN7X library subroutines to their equivalents on that machine. Also, additional user defined functions may easily be added. This edition of Ecalc enables access to most of the functions in the FTN7X library.

Additional Documentation....: Ecalc.help is a text file that contains all of Ecalc's function names and their usage and is listed from Ecalc by typing a '?' (question mark). Copy Ecalc.help to the global directory /help/ with the new name Ecalc (i.e. do: co ecalc.help /help/ecalc) in CI. (FMGR users will have to modify the help filename in the program in order for it to be listed when one types '?' in Ecalc.)

DATEX

UNIVERSAL DATE FORMATTER

M029

Contribution Name.....: DATEX
Title.....: Universal Date Formatter
File Names.....: 00. Rename Transfer File
 : 01. DATEX.SBMT
 : 02. DATEX.FTN
 : 03. USRDX.FTN
Operating system(s).....: RTE-A
Uses hierarchical files?: no
Language(s).....: Fortran 77
Keywords.....: 1. time
 : 2. date
 : 3. strings
External Support Req'd...: No
If Re-submission, Reason.:
Contributor's Name.....: David Kaplan
Company.....: C&L Systems
Street.....: Surrey House,
 : Surrey Street
City.....: Croydon
State.....: Surrey
Country.....: England
Zip Code.....: CR9 1HX
Phone Number...: (44)-1-760-0770
Program Abstract.....: DATEX allows a date or time string to be
generated in any user specified format. Not only will it produce the
current date/time, but any date/time offset from the present into either
the future or past.
Additional Documentation....: When scheduled DATEX is passed a date
format string and an offset from the present. It returns in a return string
(\$RETURN_S) the specified date/time in the required format.

RPOK

RPOK ROUTINE FOR CONTRIBUTION H022

M030

Contribution Name.....: RPOK
Title.....: RPOK routine for contribution H022
File Names.....: 00. Rename Transfer File
 : 01. rpok.sgmt
 : 02. rpok.mac
 : 03. rpok.rel
Operating System(s).....: RTE-6
Language(s).....: Macro
Keywords.....: 1. Assembler
 : 2. Search
 : 3. Sort
External Support Req'd...: missing from original contribution
If Re-submission, Reason.:
Contributor's Name.....: Don Pottinger
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Rd.
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Contribution Abstract.....:
Required for DLX (CSL/1000 release 2340 contribution #H022) and missing
from the original contribution. See additional documentation for DLX.

EMACOPY

COPY INTEGER*2 DATA IN/OUT/WITHIN EMA FAST

M031

Contribution Name.....: EMACOPY
Title.....: Copy Integer*2 Data In/Out/Within EMA Fast
File Names.....: 00. Rename Transfer File
 : 01. EMACOPY.SBMT
 : 02. EMACOPY.CDS.MAC
 : 03. EMACOPY.CDS.LIB
 : 04. EMACOPY.MAC
 : 05. EMACOPY.LIB
 : 06. EMACOPY.OV (Slides for talk)
Operating System.....: RTE-A
Language(s).....: FTN7X
Keywords.....: EMA/VMA
 : Copy

External Support Req'd....: Added non-CDS version
 If Re-submission, Reason.: Donald A. Wright
 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
 Telex Number...: 650 211 1023 (WUI)

Contribution Abstract.....:

The EMACOPY subroutine can move data into, out of, and within EMA at speeds up to 50 times faster than normal Fortran Do-Loops.

It is called as follows:

SALIAS EMACOPY, EMA (EMACOPY expects 32-bit parameter addresses)
 DIMENSION FROM(I), TO(J) (May be INT*2 or any other type except CHAR)
 INTEGER*4 WORDS

CALL EMACOPY (FROM(I), TO(J), WORDS)

FROM and TO may be in EMA, local memory, or COMMON. EMACOPY automatically figures out where they are.

WORDS is the number of words to be copied from FROM to TO. It must not be in EMA.

EMACOPY maps FROM and TO into the VSEG (if in EMA) and then uses the hardware/firmware MVW instruction to perform the copy. This instruction exists in all HP1000 systems, and is at least as fast as the Vector Instruction Set instructions for this copy function. Thus an A400 CPU performs as if it has VIS, at least for copying data.

On an A400 the CDS version beats Fortran Do-Loops at any number of WORDS over 5. The non-CDS version should be a bit better than that.

Both CDS and non-CDS versions are supplied. The non-CDS version might even run on RTE-6/VM.

MAKETAPES

M032

MANUFACTURE REEL-TO-REEL TAPES IN VOLUME

Contribution Name.....(16):: MAKETAPES
 Title.....(64):: Manufacture Reel-to-Reel Tapes in Volume
 File Names.....: 00. Rename Transfer File
 : 01. MAKETAPES.SBMT
 : 02. MAKETAPES.FIN
 : 03. MAKETAPES.REL
 : 04. MAKETAPES.LOD
 : 05. TAPETODISK.FIN
 : 06. TAPETODISK.REL
 : 07. TAPETODISK.LOD
 : 08. MAKETAPES.MAKE
 Operating System(s).....: RTE-A
 Uses hierarchical files?: Yes
 Language(s).....: FIN7X
 Keywords.....: Copy
 : Magnetic tape
 : Mag Tape Drive
 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
 Zip Code.....: 55042
 Country.....: USA
 Phone Number...: 612/770-3728
 Telex.....: 650 211 1023 (WUI)

Program Abstract.....:

MAKETAPES was developed for INTEREX to assist in producing 1600-BPI and 800-BPI Best-Of tapes. The TF format was chosen for that CSL release, resulting in very slow tape production. FST could not be used because not all CSL members have FST. MAKETAPES writes TF-format tapes at the full speed of the tape drive, whatever that is. In fact, it should be able to write any format (TAR, LIF, whatever) at the same speed. It is actually being used to make HP3000 Best-Of tapes on the HP1000!

It works as follows:

1. An original tape is written in TF (or whatever) format, and verified.
2. The TAPETODISK program is used to read that tape to disk as a single file as large as the data on the tape. Each tape record is copied to an identical disk record (up to 16k characters in length), and an EOF on tape is written as a zero-length disk record.
3. One or more copies of MAKETAPES are scheduled to write the tapes from the disk file at high speed. Several copies can go at full speed at once. When a tape is finished, MAKETAPES announces that fact, waits for the drive to be unloaded and reloaded, then restarts automatically. One operator can be hard put to keep up with two or three tape drives, depending on the amount of data on the tape.

MAKETAPES does keep track of all errors, and aborts a write if any error is discovered. All errors are reported.

MAKETAPES can also be scheduled in a write-once (or write-counted) mode to make one or a few tapes at high speed as needs require. Perfect for a software supplier.

What remains to be done? It doesn't work on CS/80 tapes yet. I may get around to that some day, but please let me know if YOU do, because then I won't have to. Can it be done as transparently for CS/80 as it is for reel-to-reel? Only the shadow knows . . .

TIME PROCESSES

Contribution Name.....(16):: TIMER
 Title.....(64):: Time Processes
 File Names.....: 00. Rename Transfer File
 : 01. TIMER.SBMT
 : 02. TIMER.FTN
 : 03. TIMER.REL
 Operating System(s).....: RTE-A
 Uses hierarchical files?:
 Language(s).....: FTN7X
 Keywords.....: Time
 : Reports
 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
 Zip Code.....: 55042
 Country.....: USA
 Phone Number...: 612/770-3728
 Telex.....: 650 211 1023 (WUI)
 Program Abstract.....:

TIMER can be used to display the time required for any process capable of invoking TIMER at the beginning and the end. These include CI transfer files and QUERY XEQ files, for example. It is invoked in three ways:
 1. TIMER ON starts TIMER running and displays time values of 0.
 2. TIMER (no parameter) displays the current elapsed time since TIMER ON.
 3. TIMER OF generates a final display and deletes TIMER's ID segment.

Between runs, TIMER is terminated saving resources.
 The source document contains additional detail about its use.

DISPLAY TOTAL PERCENTAGE OF CPU UTILIZATION

Contribution Name.....: NULLJOB
 Title.....: Display Total Percentage of CPU Utilization
 File Names.....: 00. Rename Transfer File
 : 01. NULLJOB.SBMT
 : 02. NULLJOB.FTN
 : 03. NULLJOB.REL
 : 04. NULLJOB.CAL
 Operating System.....: RTE-A, RTE-6, New File System
 Language(s).....: FTN7X
 Keywords.....: Reports
 : Performance
 : System
 External Support Req'd...:
 If Re-submission, Reason...: Want it in both CSL and SWAP
 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
 Telex Number...: 650 211 1023 (WUI)
 Contribution Abstract.....:

NULLJOB runs at priority 32767 (lowest possible) and executes a task previously calibrated to take 1.00 seconds. When the task completes, NULLJOB determines how long it really took, and uses that information to calculate the percentage of CPU time used by OTHER tasks during the run period.

NULLJOB arguably displays very useful and accurate information, because it takes into account operating-system and driver activity as well as all other running processes. It often gives substantially different results than METER does.

To load it: LINK NULLJOB.REL NULLJOB::PROGRAMS.

The file NULLJOB.CAL must be put on the /SYSTEM directory. NULLJOB.FTN describes some typical calibration values for several different CPU's. The calibration value for one CPU may be different than that for another of the same type. Adjust the value in NULLJOB.CAL::SYSTEM until NULLJOB displays every 1.00 seconds on an otherwise idle system.

INTERACTIVE PAUSE

Contribution Name.....: PAUSE
 Title.....: Interactive PAUSE
 File Names.....: 00. Rename Transfer File
 : 01. PAUSE.SBMT
 : 02. PAUSE.FTN
 : 03. PAUSE.REL
 Operating system(s).....: RTE-A, RTE-6
 Uses hierarchical files?: No
 Language(s).....: FTN7X
 Keywords.....: 1. CI
 : 2. Command_files
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Donald A. Wright
 Company.....: Interactive Computer Technology
 Street.....: 2069 Lake Elmo Avenue
 City.....: Lake Elmo

State.....:MN
Country.....:USA
Zip Code.....:55042
Phone Number...:612/770-3728
Program Abstract.....:

PAUSE is a very short program which provides a calibrated pause. It is particularly intended for use in CI command files, where a pause might be needed while a tape drive loads or some other related process takes place. It is basically an EXEC 12 self-suspend, except that it actually does 1-second suspends and checks for the break flag each second, terminating if the flag is detected.

ERROR

M036

EXPLAIN FMP ERROR

Contribution Name.....:ERROR
Title.....:Explain FMP error
File Names.....:00. Rename Transfer File
 :01. ERROR.SBMT
 :02. ERROR.FTN
 :03. ERROR.REL
Operating system(s).....:RTE-A, RTE-6
Uses hierarchical files?:Yes
Language(s).....:FTN7X
Keywords.....:1. ERROR
 :2. FILES
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.....:

How many times have you picked up the Programmers Guide simply to look up a FMP error code? ERROR is an exceedingly short (and small) program which provides the short explanation for any FMP error code. Simply enter ERROR <code>, where <code> is the code needing the explanation. ERROR calls FMPREPORTERROR to display the explanation on the screen.

CNVRT

M037

SMALL INTERNAL CONVERSION FORMATTER

Contribution Name.....:CNVRT
Title.....:SMALL INTERNAL CONVERSION FORMATTER
File Names.....:00. Rename Transfer File
 :01. CNVRT.SBMT
 :02. CNVRT.MAC
 :03. CNVRT.REL
 :04. IDRCI.MAC
 :05. IDRCI.REL
 :06. CNVRT.LOD
 :07. CNVRT.MAKE make file
Operating System(s).....:ALL
Language(s).....:MACRO
Keywords.....:1. FORMATTING
 :2. CONVERSION
 :3. LIBRARY
External Support Req'd...:
If Re-submission, Reason.:CALLABLE BY MACRO ONLY
Contributor's Name.....:Donald L. Clapp
Company.....:Eli Lilly & Co.
Street.....:307 E. McCarty St.
City.....:Indianapolis
State.....:Indiana
Country.....:USA
Zip Code.....:46285
Phone Number...:(317) 276-4458
Telex.....:

Contribution Abstract.....:This set of routines provide most of the formatting functions that are commonly used but in much less space that FORTRAN would. It is callable only in MACRO because of the way some parameters are passed. It was derived from the FORTRAN II formatter of about 1974. It does do conversions both directions in Integer, Real, and Octal. The code is in place to do Integer*4 output and Exponential output but has been commented out for 11 years. It will do Integer output with leading zeros. As it stands now all of the features occupy only 656(10) words.
Additional Documentation....:SEE SOURCE CODE FOR CALLING SEQUENCE.

DVERI

M038

DISC VERIFICATION ON-LINE

Contribution Name.....:DVERI
Title.....:DISC VERIFICATION ON-LINE
File Names.....:00. Rename Transfer File
 :01. DVERI.SBMT
 :02. DVERI.FTN
 :03. DVERI.REL
 :04. DVERI.LOD
 :05. DVERI.MAKE
Operating System(s).....:RTE-A (SHOULD WORK ON ALL)
Language(s).....:FTN7X
Keywords.....:1. SYSTEM
 :2. DIAGNOSTIC
 :3. DISC
External Support Req'd...:NONE
If Re-submission, Reason.:

Contributor's Name.....: Donald L. Clapp
 Company.....: Eli Lilly & Co.
 Street.....: 307 E. McCarty St.
 City.....: Indianapolis
 State.....: Indiana
 Country.....: USA
 Zip Code.....: 46285
 Phone Number...: (317) 276-4458
 Telex.....:
 Contribution Abstract.....: This contribution works its way
 through all mounted discs reading all blocks on all tracks.
 The program has a low priority and suspends between each read.
 It should not affect system performance very much. If your
 disc does have a problem this program may help isolate it.
 Additional Documentation....: See source

FS

DISC BIT MAP DISPLAY

M039

Contribution Name.....: FS
 Title.....: DISC BIT MAP DISPLAY
 File Names.....:00. Rename Transfer File
 :01. FS.SBMT
 :02. FS.FTN
 :03. FS.REL
 :04. FS.LOD
 :05. FS.ORIG ORIGINAL
 :06. FS.MAKE
 Operating System(s).....: RTE-A (SHOULD WORK ON ALL)
 Language(s).....: FTN7X
 Keywords.....: 1. MAP
 : 2. STORAGE
 : 3. DISC
 : 4. CI
 External Support Req'd...: CI FILE SYSTEM
 If Re-submission, Reason.:
 Contributor's Name.....: Donald L. Clapp
 Company.....: Eli Lilly & Co.
 Street.....: 307 E. McCarty St.
 City.....: Indianapolis
 State.....: Indiana
 Country.....: USA
 Zip Code.....: 46285
 Phone Number...: (317) 276-4458
 Telex.....:
 Contribution Abstract.....: If you have a graphics terminal,
 this program will display the bit map for a CI volume. On a
 non graphic terminal it gives you the same information that
 FREES does. I don't know where this came from, and I have
 only made very small changes. My thanks to the original
 author.
 Additional Documentation....: See source

PASS_CHECK6

RTE-6 PASSWORD AGING

M040

Contribution Name.....: PASS CHECK6
 Title.....: RTE-6 PASSWORD AGING
 File Names.....:00. Rename Transfer File
 :01. PASS CHECK6.SBMT
 :02. PASS CHECK6.FTN
 :03. PASS CHECK6.REL
 :04. PASS CHECK6.LOD
 :05. LJSTF.MAC LEFT JUSTIFY
 :06. LJSTF.REL
 :07. COMPW.MAC COMPARE WORDS
 :08. COMPW.REL
 :09. PASS CHECK6.MAKE
 Operating System(s).....: RTE-6 ONLY (RTE-4B ?)
 Language(s).....: FORTRAN 77 & MACRO
 Keywords.....: 1. SYSTEM
 : 2. SECURITY
 : 3. SESSION
 External Support Req'd...: SESSION AND CI FILES
 If Re-submission, Reason.:
 Contributor's Name.....: Donald L. Clapp
 Company.....: Eli Lilly & Co.
 Street.....: 307 E. McCarty St.
 City.....: Indianapolis
 State.....: Indiana
 Country.....: USA
 Zip Code.....: 46285
 Phone Number...: (317) 276-4458
 Telex.....:
 Contribution Abstract.....: This program allows a user to
 change their password. If this program is run in the 'HI' file
 it will REQUIRE the user to change their password at some interval.
 The interval is now set to 90 days. To cause the password age
 to be checked, put this statement in the 'HI' file:
 RU,PASS CHECK,1,99
 To change your password at any time, type RU,PASSWORD
 Passwords must always be changed by this program in order for
 the date of the change to be updated.

SMPLY

ENHANCEMENTS TO RTE-6 SPOOLING

M041

Contribution Name.....: SMPLY
 Title.....: ENHANCEMENTS TO RTE-6 SPOOLING
 File Names.....:00. Rename Transfer File
 :01. SMPLY.SBMT
 :02. SMPLY.FTN MONITOR & DOCUMENTATION
 :03. SMPLY.REL
 :04. SMPLY.LOD
 :05. SPOOL.FTN SETUP SUBROUTINES


```

:06. SPOOL.REL
:07. NSCOM.MAC
:08. NSCOM.REL
:09. NSCOM.HELP
:10. IDRCT.MAC
:11. IDRCT.REL
:12. MSORT.MAC
:13. MSORT.REL
:14. XWRD.MAC
:15. XWRD.REL
:16. OUTSPLR.FTN      OUTSPOOLER
:17. OUTSPLR.REL
:18. SPLY.MAKE       make file
Operating System(s).....: RTE-6 ONLY
Language(s).....: FTN7X
Keywords.....: 1. SPOOLING
External Support Req'd....: USES STANDARD SPOOLING (GASP & SMP)
                          Needs Msort (LyLIB ?)
If Re-submission, Reason.:
Contributor's Name.....: Donald L. Clapp
Company.....: Eli Lilly & Co.
Street.....: 307 E. McCarty St.
City.....: Indianapolis
State.....: Indiana
Country.....: USA
Zip Code.....: 46285
Phone Number.....: (317) 276-4458
Telex.....:
Contribution Abstract.....: This contribution implements some
enhancements to RTE-6 spooling. The major limitation that we addressed
is the limit of 10(ten) outspool devices. This package does not care
how many you use. As supplied it is configured for 20 but this
is easily changed. The Lu's that this package handles are in
addition to what RTE(GASP) knows about. You can in fact use this
for all of the outspooling.
Some other features are:
forms type control; multiple copies; holds by file, Lu, or system.
The setup and close subroutines will need to be adjusted for your
system.
Additional Documentation.....: See source (SPLY & SPOOL).

```

PLOT

M042

GENERAL PLOT PROGRAM (PART 1 OF 3)

```

Contribution Name.....: PLOT
Title.....: GENERAL PLOT PROGRAM (PART 1 OF 3)
File Names.....: 00 Rename Transfer File
                : 01 PLOT1.SBMT
                : 02 #NAMES_PLOTLIB
                : 03 A0801
                : 04 ADD_FN.FTN
                : 05 ADD_FN.REL
                : 06 ADD_PRM.FTN
                : 07 ADD_PRM.REL
                : 08 ANG_ADJUST.FTN
                : 09 ANG_ADJUST.REL
                : 10 AZ_ADJUST.REL
                : 11 BIGLB.LIB
                : 12 BLOCK2_DATA.FTN
                : 13 BLOCK2_DATA.REL
                : 14 BLOCK_DATA.FTN
                : 15 BLOCK_DATA.REL
                : 16 C0101
                : 17 C0103
                : 18 C0104
                : 19 C0108
                : 20 C010B
                : 21 CAGP
                : 22 CFORM
                : 23 CGET_VALUE
                : 24 CHK_VALUE.FTN
                : 25 CHK_VALUE.REL
                : 26 CINIT
                : 27 CMOVE
                : 28 CNEXTFILE
                : 29 COMEMA
                : 30 COMPUTE.FTN
                : 31 COMPUTE.REL
                : 32 CONV_SYMB.FTN
                : 33 CONV_SYMB.REL
                : 34 CPLG
                : 35 CPLOT
                : 36 CPRM
                : 37 CREPLT
                : 38 CSETR
                : 39 CTEMP
                : 40 CY_AXI
                : 41 D1
                : 42 D2
                : 43 DESCRIP
                : 44 F0013
                : 45 F0014
                : 46 TDATA
                : 47 FIXT.FTN
                : 48 FIXT.REL
                : 49 FORM.FTN
                : 50 FORM.REL
                : 51 FORM2.FTN
                : 52 FORM2.REL
                : 53 FORM_DUMP.FTN
                : 54 FORM_DUMP.REL
                : 55 FRAM1.FTN
                : 56 FRAM1.REL
                : 57 FRAM2.FTN
                : 58 FRAM2.REL
                : 59 FRAM3.FTN
                : 60 FRAM3.REL
                : 61 GET_DEVICE.FTN
                : 62 GET_DEVICE.REL
                : 63 GET_NEXT.FTN
                : 64 GET_NEXT.REL
                : 65 GET_NEXT_HDR.FTN
                : 66 GET_NEXT_HDR.REL
                : 67 GET_PTRS.FTN

```

```

: 68 GET PTRS.REL
: 69 GET VALUE.FTN
: 70 GET VALUE.REL
: 71 GLIM.FTN
: 72 GLIM.REL
: 73 HS
: 74 HS
: 75 HANDLER.FTN
: 76 HANDLER.REL
: 77 INIT PTRS.FTN
: 78 INIT PTRS.REL
: 79 L110T
: 80 LIM1.TXT
: 81 LOOP.FTN
: 82 LOOP.REL
: 83 MOREF.FTN
: 84 MOREF.REL
: 85 MOVE.REC.FTN
: 86 MOVE.REC.REL
: 87 MOVE.RECR.FTN
: 88 MY.FLAG.REL
: 89 MY.FORM.FTN
: 90 MY.FORM.REL
: 91 #MERGE_PLOT
Operating System.....:RTE/6
Uses hierarchical files?:YES
Language(s).....:FTN77
Keywords.....: 1. Plotting
: 2. Graphics
External Support Req'd...:AGP
If Re-submission, Reason.:
Contributor's Name.....:DONALD LESLIE
Company.....:RAYTHEON MSD
Street.....:PO BOX B
City.....:WSMR
State.....:NEW MEXICO
Country.....:USA
Zip Code.....:88002
Phone Number...:505-678-9181

```

Program Abstract.....:
PLOT is a program to plot radar data . It is designed to provide flexibility for the user with data which is relatively constant in content .

The program is table driven . All message formats are in tables external to the program . These tables contain the field names and associated type . User input is through menus . All responses are symbolic . The menus display the possible parameters . No knowledge is required of the physical layout of the file once the message descriptions have been created .

The program can do rectangular , polar and circular plots .The output can be to a graphics terminal , 7550 plotter or 25xx printer (2608S) .

The user can specify static or dynamic for the limits for the axes to be plotted . In addition other parameters in the message can be given to provide additional filtering .

The program sorts the input data into an EMA file . This data can be replotted from memory . A replot can change the output device and format (i.e. change from polar to rectangular) . In addition , the axis limits can be reduced to change the scaling .

Additional Documentation....: See Interex San Jose proceedings
See PLOT.DOC

PLOT

GENERAL PLOT PROGRAM (PART 2 OF 3)

M043

```

Contribution Name.....:PLOT
Title.....:GENERAL PLOT PROGRAM (PART 2 OF 3)
File Names.....:00. Rename Transfer File
:01. PLOT2.SBMT
:02. PARAMETERS
:03. PARSE.FTN
:04. PARSE.REL
:05. PFLG1.FTN
:06. PFLG1.REL
:07. PFLG2.FTN
:08. PFLG2.REL
:09. PLOT.CMD
:10. PLOT.FTN
:11. PLOT.LIB
:12. PLOT.LOD
:13. PLOT.MAP
:14. PLOT.REL
:15. PLOT1.FTN
:16. PLOT1.REL
:17. PLOT.DOC
Operating System.....:RTE/6
Uses hierarchical files?:YES
Language(s).....:FTN77
Keywords.....: 1. Plotting
: 2. Graphics
External Support Req'd...:AGP
If Re-submission, Reason.:
Contributor's Name.....:DONALD LESLIE
Company.....:RAYTHEON MSD
Street.....:PO BOX B
City.....:WSMR
State.....:NEW MEXICO
Country.....:USA
Zip Code.....:88002
Phone Number...:505-678-9181
Program Abstract.....:
See description in part 1 of this contribution

```

PLOT

GENERAL PLOT PROGRAM (PART 3 OF 3)

```

Contribution Name.....:PLOT
Title.....:GENERAL PLOT PROGRAM (PART 3 OF 3)
File Names.....:00 Rename Transfer File
:01 PLOT3.SBMT
:02 PLOT 3.REL
:03 PLOT ANG.FTN
:04 PLOT ANG.REL
:05 PLOT C.FTN
:06 PLOT C.REL
:07 PLOT DESC
:08 PLOT LOOP.FTN
:09 PLOT LOOP.REL
:10 PLT FLG.FTN
:11 PLT FLG.REL
:12 POP.FTN
:13 POP.REL
:14 PRADI.FTN
:15 PRADI.REL
:16 PREDEF
:17 PREDEF2
:18 PRING.FTN
:19 PRING.REL
:20 PRM.TXT
:21 PSCAN.FTN
:22 PSCAN.REL
:23 PTIME.FTN
:24 PTIME.REL
:25 PTITLE.FTN
:26 PTITLE.REL
:27 RDFIL.FTN
:28 RDFIL.REL
:29 REPLOT.TXT
:30 REPLT.FTN
:31 REPLT.REL
:32 RESET.FTN
:33 RESET.REL
:34 SAVETN.FTN
:35 SAVETN.REL
:36 SERR.FTN
:37 SERR.REL
:38 SET.FTN
:39 SET.REL
:40 SET1.FTN
:41 SET1.REL
:42 SET1.TXT
:43 SET3.FTN
:44 SET3.REL
:45 SETR.FTN
:46 SETR.REL
:47 SETSRC.FTN
:48 SETSRC.REL
:49 SETUP.FTN
:50 SETUP.REL
:51 SET LIMITS.FTN
:52 SET LIMITS.REL
:53 SET PRM.FTN
:54 SET PRM.REL
:55 SFLG.FTN
:56 SFLG.REL
:57 SMAX.FTN
:58 SMAX.REL
:59 SMIN.FTN
:60 SMIN.REL
:61 SORTR.FTN
:62 SORTR.REL
:63 SRC.TXT
:64 STRK.FTN
:65 STRK.REL
:66 SUMMARY.FTN
:67 SUMMARY.REL
:68 SUMMARY.TXT
:69 SWITCH.FTN
:70 SWITCH.REL
:71 S LIM1.TXT
:72 TAG.FTN
:73 TAG.REL
:74 TEST FN.FTN
:75 TEST FN.REL
:76 TITLE.TXT
:77 UTILITY.FTN
:78 UTILITY.REL
:79 VARIABLES
:80 V AXI.FTN
:81 V AXI.REL
:82 WHERE.FTN
:83 WHERE.REL
:84 XAXISR.FTN
:85 XAXISR.REL
:86 X AXI.FTN
:87 X AXI.REL
:88 Y AXI.FTN
:89 Y AXI.REL
:90 PLOT 3.FTN
:91 D2 FILES
:92 PLOT3.MAP
:93 PLOT.DBG
:94 BORDER.FTN
:95 BORDER.REL
:96 POL2XY.FTN
:97 POL2XY.REL
:98 SDO
Operating System.....:RTE/6
Uses hierarchical files?:YES
Language(s).....:FIN77
Keywords.....:1. Plotting
:2. Graphics
External Support Req'd...:AGP
If Re-submission, Reason.:
Contributor's Name.....:DONALD LESLIE
Company.....:RAYTHEON MSD

```

Street.....:PO BOX B
City.....:WSMR
State.....:NEW MEXICO
Country.....:USA
Zip Code.....:88002
Phone Number...:505-678-9181
Program Abstract.....
See description in part 1 of this contribution

SEARCH

M045

SEARCH FOR STRING ACROSS DIRECTORY

Contribution Name.....:SEARCH
Title.....:SEARCH FOR STRING ACROSS DIRECTORY
File Names.....:00 Rename Transfer File
 :01 SEARCH.SBMT
 :02 SEARCH.REL
 :03 SEARCH.LOD
 :04 SEARCH.HLP
 :05 SEARCH.FTN
Operating System.....:RTE-6,RTE-A
Uses hierarchical files?:YES
Language(s).....:FTN77
Keywords.....:1. Search
 :2. Directory
 :3. Strings
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....:DONALD LESLIE
Company.....:RAYTHEON MSD
Street.....:PO BOX B
City.....:WSMR
State.....:NEW MEXICO
Country.....:USA
Zip Code.....:88002
Phone Number...:505-678-9181
Program Abstract.....
SEARCH allows a user to search for a string in all files in a directory
with a mask specification .

Usage: SEARCH Filemask String1[:String2] [Output] [Option(s)]
Output may be an Lu or Filename . If nothing is specified LU 1 is
assumed .

The options are :

- D The default is a delimited search where the delimiters
are , ()+*/:;". . -D surpresses the delimiter check .
- L Display only the name of files containing a match .
- +X String1 is replaced by String2 (may be combined with -D to
do a non delimited exchange) .

The program accepts Break . Type EX to exit anything else to continue .

FONTEDIT

M046

LOAD AND EDIT LASERJET+ SOFT FONTS

Contribution Name.....: FONTEDIT
Title.....: Load and Edit LaserJet+ Soft Fonts
File Names.....:00. Rename Transfer File
 :01. FONTEDIT.SBMT submission file
 :02. FONTEDIT.DOC documentation file
 :03. FONTEDIT.FTN source file
 :04. FONTEDIT.REL relocateable file
 :05. FONTEDIT.LOD link file
 :06. FIXFONT.FTN source file
 :07. FIXFONT.REL relocateable file
 :08. FIXFONT.LOD link file
 :09. SETJET.FTN source file
CAUTION- change stmnt 100 in SETJET.FTN and re-compile
 :10. SETJET.REL relocateable file
 :11. SETJET.LOD link file
 :12. \$HSLIB.LIB Haystack library
 :13. \$CHAR.LIB character handling library
 :14. \$CHAR.MAC macro source for \$CHAR.LIB
 :15. \$CHAR.FTN fortran source for \$CHAR.LIB
 :16. MATHFONT sample soft fonts for DEMO F
 :17. FONTEDIT.FONT soft font for DEMO F
 :18. DEMO F sample Greek and math for TYPER
 :19. ?FONTS help file for SETJET (copy to /HELP)
 :20. CNVFONT.FTN source for CNVFONT
 :21. CNVFONT.REL rel for CNVFONT
 :22. FT12R10.USPM block
 :23. HW12R06.USPM hollow
 :24. LR12R06.USPM large
 :25. OE18RPN.USPM Old English
 :26. SC18RPN.USPM Script
 :27. TR120RPN.USPM Times Roman
 :28. TR120BPN.USPM TR Bold
 :29. TR120ITN.USPM TR italic
 :30. TR120SPN.USPM TR shadow
 :31. DEMO FROM demo of TR fonts; uses TYPER
 :32. GETSM.REL used with RTE-A spooling
 :33. LUTRU.REL redirection
COPY THE FOLLOWING HELP FILES TO THE SYSTEM DIRECTORY
 :34. FONTEDIT.MSG1 help file for FONTEDIT
 :35. FONTEDIT.MSG3 help file for FONTEDIT
 :36. FONTEDIT.MSG4 help file for FONTEDIT
 :37. FONTEDIT.MSG5 help file for FONTEDIT
Operating System.....: RTE-6 and RTE-A (CI supported)
Language(s).....: FORTRAN 77 and MACRO
Keywords.....:1. Word Processing
 :2. LaseFJet
 :3. Font
External Support Req'd...:01. HP LaserJet Plus

```

                                : 02. HP LaserJet soft fonts
If Re-submission, Reason.:
Contributor's Name.....: F. Stephen Gauss
Company.....: U.S. Naval Observatory
Street.....: 34th St. and Mass. Ave.
City.....: Washington
State.....: DC
Country.....: USA
Zip Code.....: 20392 (new zip code)
Phone Number...: 202-653-1510
Program Abstract.....: FONTEEDIT is a program to load HP's soft fonts
for the LaserJet Plus from the HP1000 into the LaserJet. It can delete
existing fonts, load new fonts and edit a font file to create new
characters. FLXFONT is required to convert the fonts as received from HP
to a useable format. See the documentation in FONTEEDIT.DOC. SETJET can
be used to select a given font once it is loaded into the LaserJet, or
you can use any other program that allows font selection (such as
TYPER). Font selection by ID number is supported by SETJET and
TYPER Rev. 6.33 and later. SETJET contains the LU of your LaserJet at
statement 100 and should be re-compiled.

To demonstrate the programs, use FONTEEDIT to load MATHFONT into the
LaserJet with ID number 22 and FONTEEDIT.FONT with ID 124.
Then use TYPER to print the DEMO_F file.

Additional Documentation....: see FONTEEDIT.DOC

```

FA88, FA89

THE FLOPPY ALMANAC

M047

```

Contribution Name.....: FA88 FA89
Title.....: The Floppy Almanac
File Names.....: 00. Rename Transfer File
                  01. ALMANAC.SBMT
                  02. FA88.FTN
                  03. FA88.REL
                  04. FA88.DATA.FTN \ 1988 version
                  05. FA88.DATA.REL /
                  06. FA88.LOD
                  07. FA89.DATA.FTN \ 1989 version
                  08. FA89.DATA.REL /
                  09. FA89.LOD
                  10. CLRSCR.FTN   required subroutine
                  11. CLRSCR.REL
                  12. ORDER.FORM  PC version order form
                  13. READ.ME    Info for PC version

Operating system(s).....: RTE-A only
Uses hierarchical files?:
Language(s).....: FORTRAN 77
Keywords.....: 1. date
               2. astronomy
               CDS is required

External Support Req'd...:
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.....: D.C.
Country.....: USA
Zip Code.....: 20392-5100
Phone Number...: 202-653-1510
Program Abstract.....: The Floppy Almanac is a program for MS-DOS
based microcomputers which reproduces the data contained in the major
sections of the Astronomical, Air, and Nautical Almanacs to full precision.
This program represents the Floppy Almanac as modified to run on the A900.
It is an interactive program reproducing to stated accuracy the data
found in The Astronomical Almanac produced by the U.S. Naval Observatory.
It should be reasonably self explanatory, but an explanatory booklet
is supplied with the PC version. The PC version of the Floppy Almanac
is available with the documentation from the Naval Observatory.
The order form is included here as ORDER.FORM.
The PC software alone is available through the INTEREX CSL/100.
Versions are provided here for 1988 and 1989. Before the end of 1988 it
is expected that a more general version will be available for the years
through 2000.0. When it is converted to the A900, it will be provided to
the CSL/1000.

Additional Documentation....:
All formulas and constants are those mandated by the International
Astronomical Union. The ephemeris used is J2000.0.

```

WHAT

MONITOR SYSTEM TABLES, SUPPLEMENTS WH UTILITY

M048

```

Contribution Name.....: WHAT
Title.....: MONITOR SYSTEM TABLES, SUPPLEMENTS WH UTILITY
File Names.....: 00. Rename Transfer File
                  01. WHAT.SBMT
                  02. WHAT.PAS
                  03. WHAT.REL
                  04. STATE.PAS
                  05. STATE.REL
                  06. WHAT.LOD

Operating System(s).....: RTE-A
Language(s).....: Pascal/1000
Keywords.....: 1. SYSTEM TABLES
               2. ID SEGMENTS
               3. RESOURCE NUMBER
               4. ANALYZER

External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: George Robinson
Company.....: James River Corp.
Street.....: Harbison Road
City.....: Lexington
State.....: KY
Country.....: USA
Zip Code.....: 40511
Phone Number...: (606) 259-9159

```

Telex.....
 Contribution Abstract.....
 WHAT provides information you would expect but don't get from WH, such as number of ID segments, used/free ID segments, shared program table entries, resource number usage, and a program/session masking capability similar to WHZAT, PL on RTE-6. Other functions include monitoring selected words of a program's ID segment, and monitoring specific values relating to time-scheduled programs.
 Additional Documentation.....
 See source code or use on-line help via ?? option.

HOERL

HOERL EQUATION REGRESSION

M049

Contribution Name.....: HOERL
 Title.....: Hoerl equation regression
 File Names.....:00. Rename Transfer File
 :01. HOERL.SBMT - Submission file
 :02. HOERL.FTN - Source code
 :03. HOERL.REL - Relocatable
 :04. HOERL.LOD - Link loader file
 :05. HOERL.MAKE - make file
 Operating System(s).....:RTE-6, RTE-A, others?
 Language(s).....:FTN7X
 Keywords.....: 1. REGRESSION
 : 2. STATISTICS
 External Support Req'd...: VIS
 If Re-submission, Reason.:
 Contributor's Name.....: Guy Reisenauer
 Company.....: IAREC
 Street.....: P.O. Box 30
 City.....: Prosser
 State.....: Washington
 Country.....: US
 Zip Code.....: 99350
 Phone Number...: (509) 786-2226
 Telex.....:
 Contribution Abstract.....: This program regresses the linearized form of Hoerl's equation. This unique equation will fit about ten different forms of non-linear data.
 Additional Documentation....: See source code for references and methods.



LINREG

LINEAR REGRESSION

M050

Contribution Name.....: LINREG
 Title.....: Linear Regression
 File Names.....:00. Rename Transfer File
 :01. LINREG.SBMT - Submission file
 :02. LINREG.FTN - FTN7X Source
 :03. LINLIB.FTN - FTN7X Source
 :04. LINREG.REL - Relocatable
 :05. LINLIB.REL - Relocatable
 :06. LINLIB.LIB - Lindexd Relocatable
 :07. LINREG.LOD - Link loader file
 :08. LINREG.CMD - Command file
 :09. LINREG.MAKE - make file
 Operating System(s).....:RTE-6/VM, RTE-A, others?
 Language(s).....:FTN7X
 Keywords.....: 1. REGRESSION
 : 2. STATISTICS
 External Support Req'd...: VIS, PRBF.LIB & TTABLE.TAB Submitted seperately
 If Re-submission, Reason.:
 Contributor's Name.....: Guy Reisenauer
 Company.....: IAREC
 Street.....: P.O. Box 30
 City.....: Prosser
 State.....: Washington
 Country.....: US
 Zip Code.....: 99350
 Phone Number...: (509) 786-2226
 Telex.....:
 Contribution Abstract.....: Straight linear regression with some of the statistical frills. This is a modified routine of the RMULT submission.

POLREG

POLYNOMIAL REGRESSION

M051

Contribution Name.....: POLREG
 Title.....: Polynomial Regression
 File Names.....:00. Rename Transfer File
 :01. POLREG.SBMT - Submission file
 :02. POLREG.FTN - FTN7X Source code
 :03. POLREG.REL - Relocatable
 :04. POLREG.LOD - LINK loader file
 :05. POLREG.MAKE - make file
 Operating System(s).....: RTE-6/VM, RTE-A, others?
 Language(s).....: FTN7X
 Keywords.....: 1. REGRESSION
 : 2. STATISTICS
 External Support Req'd...: VIS, PRBF.LIB another submission.
 If Re-submission, Reason.:
 Contributor's Name.....: Guy Reisenauer
 Company.....: IAREC
 Street.....: P.O. Box 30
 City.....: Prosser
 State.....: Washington
 Country.....: US
 Zip Code.....: 99350
 Phone Number...: (509) 786-2226
 Telex.....:
 Contribution Abstract.....: Perform polynomial regression to fourth order.
 Additional Documentation....: See source for method of solution.

PRBF

EXACT PROBABILITY OF F/T DISTRIBUTION(S)

Contribution Name.....: PRBF
 Title.....: Exact probability of F/t distribution(s).
 File Names.....: 00. Rename Transfer File
 : 01. PRBF.SBMT - Submission file
 : 02. PRBF.FTN - Source code
 : 03. PRBF.REL - Relocatable file
 : 04. PRBF.LIB - LINDXed relocatable
 : 05. TABLE.TAB - Type 2 t Table file

Operating System(s).....: Any
 Language(s).....: FTN7X
 Keywords.....: 1. STATISTICS
 External Support Req'd...: None
 If Re-submission, Reason.:
 Contributor's Name.....: Guy Reisenauer
 Company.....: IAREC
 Street.....: P.O. Box 30
 City.....: Prosser
 State.....: Washington
 Country.....: US
 Zip Code.....: 99350
 Phone Number.....: (509) 786-2226
 Telex.....:

Contribution Abstract.....: Compute the exact probability of F or t
 distributions with series analysis. TABLE.TAB is used by other programs
 submitted. There are other useful routines in this library such as a
 gamma function.

M053

RMULT

MULTIPLE REGRESSION

Contribution Name.....: RMULT
 Title.....: MULTIPLE REGRESSION
 File Names.....: 00. Rename Transfer File
 : 01. RMULT.SBMT - Submission file
 : 02. RMULT.FTN - Main program source
 : 03. RMULT.REL - Relocatable file
 : 04. REGLIB.FTN - Subroutine Library
 : 05. REGLIB.REL - Subroutine relocatables
 : 06. RMULT.LIB - Merged and indexed file
 : 07. RMULT.LOD - MLLDR command file
 : 08. RMULT.CMD - Compile command file
 : 09. RMULT.MRG - INDXR command file
 : 10. RMULT.HLP - Help file
 : 11. RMULT.MAKE

Operating System(s).....: RTE-6/VM, RTE-A?
 Language(s).....: FTN7X
 Keywords.....: 1. REGRESSION
 : 2. STATISTICS
 External Support Req'd...: VIS, PRBF.LIB & TABLE.TAB Submitted seperately
 If Re-submission, Reason.:
 Contributor's Name.....: Guy Reisenauer
 Company.....: IAREC
 Street.....: P.O. Box 30
 City.....: Prosser
 State.....: Washington
 Country.....: US
 Zip Code.....: 99350
 Phone Number.....: (509) 786-2226
 Telex.....:

Contribution Abstract.....:
 This is an interactive ten variable multiple regression program.
 The program has been loaded with MLLDR on RTE-6 and should work with CDS
 on RTE-A. For the statistics buffs, REGLIB.FTN has other useful routines
 such as maximum likelihood calculation, matrix inversion, and others.

Additional Documentation....: See RMULT.HLP

M054

SORTR

GENERAL PURPOSE FILE SORTING UTILITY

Contribution Name.....: SORTR
 Title.....: General purpose file sorting utility.
 File Names.....: 00. Rename Transfer File
 : 01. SORTR.SBMT
 : 02. SORTR.FTN
 : 03. SORTR.REL
 : 04. SORTR.HLP
 : 05. SORTR.DOC

Operating System(s).....: RTE-A, RTE-6
 Language(s).....: FTN7X
 Keywords.....: 1. SORT
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: Jacques Sansdrap
 Company.....: Univ. Cath. Louvain
 Street.....: av. Hippocrate, 55/5560
 City.....: 1200 BRUXELLES
 State.....:
 Country.....: BELGIUM
 Zip Code.....:
 Phone Number.....: (32.2) 764.55.61
 Telex.....: UCLWOL B 23722

Contribution Abstract.....: Fast in-place sort of variable-length records
 in FMP files. Up to five key windows. Several modes of window content
 evaluation. Options to delete duplicate records and to list and/or to
 save them in a file. Increasing or decreasing sort. Fully controlled
 by the run string.

Additional Documentation....: See SORTR.DOC

```

Contribution Name.....: RPRINT
Title.....: Remote DS/1000 print programs
File Names.....: 00. Rename Transfer File
                  01. RPRINT.SBMT - submission file
                  02. RPRINT.FTN - source
                  03. RPRINT.REL - relocatable
                  04. RPRINT.LOD - load file
                  05. RPRINT.HELP - help file
                  06. PRIFMREM.FTN - source, PRinT From REMote
                  07. PRIFMREM.REL - relocatable
                  08. PRIFMREM.LOD - load file
                  09. PRIFMREM.HELP
Operating System(s).....: RTE-A and RTE-6
Language(s).....: FTN7X
Keywords.....: 1. DS
                2. PRINTER
External Support Req'd...: CI files, RTE, DS/1000, directory /PRINT on
                        printer nodes (with write access for TRFAS)
If Re-submission, Reason.:
Contributor's Name.....: Jeff Heneks
Company.....: Computer Sciences Corp.
Company.....: (under contract for INTELSAT)
Street.....: 3400 International Drive, N.W. Box 31
City.....: Washington
State.....: DC
Country.....: USA
Zip Code.....: 20008-3098
Phone Number.....: (202) 944-7634
Telex.....:
Contribution Abstract.....:
This package contains two programs to facilitate printing files on
a remote DS/1000 system. RPRINT invokes PRINT with the overwrite
option using a unique name to send a file to a remote system in the
directory /PRINT. PrtFmRem then prints the files from the /PRINT
directory. RPRINT has options that specify the desired printer.
The file type extension is used to select the printer. The user
need not know the node number or LU. Copies of PrtFmRem are
invoked for each printer using run time parameters to specify the
file type extension, how often the program looks at the print
directory, and the LU number. Our version of RPRINT has options
WID for printing on wide paper on node 10, NAR for printing on narrow
paper on node 10, and LAS for printing on the laser printer on node 4.
These options can easily be changed in RPRINT. PrtFmRem need not be
changed, as run time options will provide enough flexibility.

```

```

Contribution Name.....: SKED
Title.....: Time-scheduled program scheduler
File Names.....: 00. Rename Transfer File
                  01. sked.sbmt
                  02. sked.ftn
                  03. sked.rel
                  04. sked.lod
                  05. sked.dat
                  06. skdfl.ftn !Subroutine to read sked.dat
                  07. skdfl.rel
Operating System.....: RTE-6/VM and others?
Language(s).....: FORTRAN 77
Keywords.....: 1. Scheduling
                2. System
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Jim Becker
Company.....: ICI Americas Inc.
Street.....: 5757 Underwood Rd.
City.....: Pasadena
State.....: Texas
Country.....: USA
Zip Code.....: 77507
Phone Number.....: (713) 474-5151
Contribution Abstract.....:
This program is used to schedule programs that run on a time-scheduled basis.
Programs do not need to be RP'ed. Programs are run without wait so any
number of programs can be run at a given time.
A list of programs with the start time, frequency and run string are in
Sked.dat. SKED is self-scheduling so keep it as the first entry in Sked.dat
and set the frequency at which you want it to run.
All you need to do to use SKED is to set up Sked.dat and copy it to the
system directory. Then you can run SKED from your session. SKED detaches
itself from your session so it will continue after you log off.
To change the schedule, edit Sked.dat and then set SKED's break flag. The
next time SKED executes it will reread Sked.dat. This way you can change the
schedule and not have to go to the system console.
To turn SKED off, edit Sked.dat to set its frequency to 0 and then set SKED's
break flag. This will cause SKED to stop.
To run SKED from your welcom file RP it and then RUN it.
SKED also prints a time message on the system console each hour to make it
easier to tell about when a non-time stamped system error occurred.
Additional Documentation.....:
Use Link or Loadr. This program uses no libraries.

```


A CALENDAR SYSTEM FOR THE MODERN EXECUTIVE

```

Contribution Name.....: APPTS
Title.....: A calendar system for the modern executive
File Names.....: 00. Rename Transfer File
                  01. APPTS.SBMT
                  02. CALANDER.DB
                  03. CLEAN.FTN
                  04. CLEAN.REL
                  05. CLEAN.LOD
                  06. CLEAN.SCN
                  07. DATESUB.FTN
                  08. DATESUB.REL
                  09. ENTER.FTN
                  10. ENTER.REL
                  11. ENTER.LOD
                  12. ENTER.SCN
                  13. MAINT.FTN
                  14. MAINT.REL
                  15. MAINT.LOD
                  16. MAINT.SCN
                  17. MENU.FTN
                  18. MENU.REL
                  19. MENU.LOD
                  20. MENU.SCN
                  21. REPORT.FTN
                  22. REPORT.REL
                  23. REPORT.LOD
                  24. REPORT.SCN
                  25. SCAN.FTN
                  26. SCAN.REL
                  27. SCAN.LOD
                  28. SCAN.SCN
                  29. STARTER.FTN
                  30. STARTER.REL
                  31. STARTER.LOD
                  32. FL.CMD
                  33. CISCREEN.REL
                  34. APPTS.MAKE
Operating System(s).....: RTE-A, etc w/ CI
Language(s).....: Fortran 77
Keywords.....: 1. Calendar
               2. Scheduling
External Support Req'd...: IMAGE2
If Re-submission, Reason.: **>> CALENDAR.DB DATA-BASE SCHEMA LEFT
                                OFF ORIGINAL TAPE
Contributor's Name.....: John Domanico
Company.....: Warner Lambert / Parke Davis Div
Street.....: 201 Tabor Rd.
City.....: Morris Plains
State.....: New Jersey
Country.....: USA
Zip Code.....: 07950
Phone Number...: (201) 540-6112
Telex.....:
Contribution Abstract.....: This is a user friendly appointment and
follow-up reminder program. The user choses from an option from a menu.
Separate sub-screens guide the user through entry, reporting, scanning,
modification, and erasing. Multiple users are intended so that all may
review calendars for meeting scheduling.
Additional Documentation....: Fortran code and link files will need to
be modified to include the proper LU's and carts for use. Also, the data-
base will need to be created by running the proper IMAGE2 commands.

```

ADVENTURE GAME, VERSION 2.2

```

Contribution Name.....: ADVENTURE
Title.....: Adventure Game, Version 2.2
File Names.....: 00. Rename transfer file.
                  01. ADVENTURE.SBMT
                  02. ADVENT.FTN
                  03. ADVENT.REL
                  04. AINIT.FTN
                  05. AINIT.REL
                  06. AMAIN.FTN
                  07. AMAIN.REL
                  08. ASUB.FTN
                  09. ASUB.REL
                  10. AIOSUB.FTN
                  11. AIOSUB.REL
                  12. ABUILD.FTN
                  13. ABUILD.REL
                  14. ALPHAS.INCL
                  15. ARYCOM.INCL
                  16. IOCCOM.INCL
                  17. LINCOM.INCL
                  18. MAGCOM.INCL
                  19. MISC.COM.INCL
                  20. PLACOM.INCL
                  21. TRVCOM.INCL
                  22. TXTCOM.INCL
                  23. VOCCOM.INCL
                  24. ADVENT.LOD
                  25. ABUILD.LOD
                  26. ADVENTURE.TXT
                  27. ADVENTURE.DAT
                  28. ADVENTURE.DOC
                  29. MESSAGE.TXT
                  30. CHEAT.TXT
Operating System.....: RTE-6/VM and RTE-A
Language(s).....: FTN77
Keywords.....: 1. Games
External Support Req'd...:
If Re-submission, Reason.: Bug fixes

```

Contributor's Name.....: John L. Anderson Jr.
 Company.....: U.S. Naval Station
 Street.....: Code 3441
 City.....: Seal Beach
 State.....: CA.
 Country.....: USA
 Zip Code.....: 90740
 Phone Number...: (213) 594-7887
 Telex.....:
 Contribution Abstract.....:

Old games never die, they just get bigger. There have been many changes made to this game summarized as follows:

- No segmentation or LOADR
- No assembly language routines
- Data base stored in EMA memory
- Lower case letters used everywhere
- Expanded cave and magic mode
- Optional hours cave is open
- Save/restore game to disc file
- Command echo back with full spelling
- Every game is different using random numbers
- Use FORTRAN I/O for all files
- Easily ported to HP-UX systems
- Messages to users
- Fast response time
- Low usage of system resources

Additional Documentation.....:

See ADVENTURE.DOC for installation. I believe all of the bugs are fixed but it is impossible to test every possible condition. Send me bug reports if you find any. I finally went through the entire game and have tested just about everything. You should now be able to extra points for the girls garter, the ruby skull and getting to charon's landing. I have gotten perfect scores but it is not easy. If you get to the final repository, try something that did not work earlier in the game. Be kind to the beautiful girl and watch out for the statue. It is possible to get all of the treasures but don't waste any time. The wizard mode is mainly for debugging and controlling access to the game. You don't need it for normal playing. Happy adventuring!

I have been porting this to an IBM PC and am also looking for the source code of the CP/M version that has the ice caves, computer room and other features. I think it was written in Basic. If anyone has a copy, let me know. CHEAT.TXT has all the answers for playing the game.

 CHESS

MINI-TECH CHESS GAME, VERSION 2.3

M059

 Contribution Name.....: CHESS
 Title.....: Mini-Tech Chess Game, Version 2.3
 File Names.....: 00. Rename transfer file.
 : 01. CHESS.SBMT Submission file
 : 02. CHESS.FTN - Main program source
 : 03. SETBOARD.FTN
 : 04. READ MOVE.FTN
 : 05. GENERAL MOVE.FTN
 : 06. PUSH MOVE.FTN
 : 07. CONSIDER MOVES.FTN
 : 08. STACK PAWN.FTN
 : 09. PAWN CAPTURE.FTN
 : 10. PROMOTE PAWN.FTN
 : 11. STACK KN.FTN
 : 12. STACK BRO.FTN
 : 13. CASTLE.FTN
 : 14. STACK CASTLE.FTN
 : 15. CASTLE CHECK.FTN
 : 16. STACK MOVE.FTN
 : 17. IN CHECK MACRO.FTN
 : 18. KING IN CHECK.MAC
 : 19. POSITION.FTN
 : 20. OPENING.FTN
 : 21. MIDGAME.FTN
 : 22. ENDGAME.FTN
 : 23. SORT MOVES.FTN
 : 24. PRUNE MOVES.FTN
 : 25. SCORE.FTN
 : 26. CENTER CONTROL.FTN
 : 27. MOBILITY.FTN
 : 28. KING CHECK.FTN
 : 29. SUM VALUES.FTN
 : 30. DEFEND KING.FTN
 : 31. OPENING BONUS.FTN
 : 32. MIDGAME BONUS.FTN
 : 33. ENDGAME BONUS.FTN
 : 34. EXECUTE MAC
 : 35. SAVE RESTORE.MAC
 : 36. BACKUP ALPHA.FTN
 : 37. BACKUP BETA.FTN
 : 38. FULL DUMP.FTN
 : 39. DUMP NODE.FTN
 : 40. PRINT BOARD.FTN
 : 41. ABORT GAME.FTN
 : 42. BREAK APART.FTN
 : 43. ISWR.FTN
 : 44. TIMER.FTN
 : 45. WAIT.FTN
 : 46. SAVE GAME.FTN
 : 47. RESTORE GAME.FTN
 : 48. GLOBAL BLOCK.FTN
 : 49. SETUP.FTN
 : 50. MOVE NUMBER.FTN
 : 51. MOVE LIST.FTN
 : 52. TIMES.FTN
 : 53. BEST MOVE.FTN
 : 54. UPDATE DISPLAY.FTN
 : 55. UPDATE PIECE.FTN
 : 56. CHESS PIECES.FTN
 : 57. DISPLAY.FTN
 : 58. SQUARE.FTN
 : 59. IN CHECK.FTN
 : 60. SEARCH_BOARD.FTN

```

: 61. EXECUTE.FTN
: 62. SAVE RESTORE.FTN
: 63. ATTACK DEFEND.FTN
: 64. SEARCH FOR PIECE.FTN
: 65. CHESS.INCL
: 66. GAME.REL - Merged Relocatables
: 67. CHESS.LOD - LINK command file
: 68. CHESS.CMD - Compile file
: 69. CHESS.MRG - Merge file
: 70. CHESS.TXT - Documentation
: 71. CHESS.ALG - Original ALGOL source
: 72. CHESS.ASM - Original Assembler source
: 73. TRACE.LOG - Output of sample game
: 74. CHESS.LINK Alternate link file
Operating System(s)..... RTE-6/VM, RTE-A
Language(s)..... FORTRAN 77, MACRO
Keywords..... 1. Games
External Support Req'd... Terminal Graphics library (TGL.LIB)
If Re-submission, Reason.. Major re-write
Contributor's Name..... John L. Anderson Jr.
Company..... U.S. Naval Station
Street..... CSAD, Code 3441
City..... Seal Beach
State..... CA.
Zip Code..... 90740
Phone Number... (213) 594-7887
Telex.....
Contribution Abstract.....

```

This chess program (Tech) will play chess by generating a 'best move' from a minimax game tree. The method used is brute force. Although alpha-beta pruning is utilized, no heuristics are embedded in the program. The game needs improvements, but can play a fair game of chess. Most of the chess games on PC's can beat Tech, but some sequences are very interesting. If you blunder, Tech will show you no mercy. Tech can play fast (depth of 3) or slow (depth of 5). In the default mode, most moves will take less than 30 seconds so you can complete a game on your lunch hour. Since all the source code is here you can experiment with the logic behind the moves. You need a 239x graphics terminal to play the game. The graphics takes a few minutes to setup up but then things run faster. The relocatables are merged together in GAMES.REL so if you want to make a change you must recompile everything.

Additional Documentation....: See CHESS.TXT

DUNGEON

CDS DUNGEON & DRAGONS GAME

M060

```

Contribution Name..... DUNGEON
Title..... CDS Dungeon & Dragons Game
File Names..... 00. Rename transfer file.
: 01. DUNGEON.SBMT
: 02. DUNGA.CDS.FTN
: 03. DUNGA.CDS.REL
: 04. DUNGB.CDS.FTN
: 05. DUNGB.CDS.REL
: 06. DUNGC.CDS.FTN
: 07. DUNGC.CDS.REL
: 08. DUNGD.CDS.FTN
: 09. DUNGD.CDS.REL
: 10. DUNGE.CDS.FTN
: 11. DUNGE.CDS.REL
: 12. DUNGL.CDS.FTN
: 13. DUNGL.CDS.LIB
: 14. DUNGN.CDS.LOD
: 15. DUNGEON.TEXT
: 16. DUNGEON.INIT
: 17. DUNGEON.HINT
Operating System..... RTE-A VC+
Language(s)..... FTN77
Keywords..... 1. Games
External Support Req'd... CDS & VC+
If Re-submission, Reason.. Bug fixes and security
Contributor's Name..... John L. Anderson Jr.
Company..... U.S. Naval Station
Street..... Code 3441
City..... Seal Beach
State..... CA.
Country..... USA
Zip Code..... 90740
Phone Number... (213) 594-7887
Telex.....
Contribution Abstract.....

```

This game was converted to run on the A-series machines using a data base that is entirely memory resident. The eliminates all disc accesses during the game but uses lots of memory (which is cheap nowadays). The program is much to big to fit except using CDS. The game has not been tested very much so let me know if you find any problems. No assembly language is used, so it should be a easy port to the HP 9000 Unix systems. All I/O is done with FORTRAN read/write statements. The file DUNGEON.INIT must be in the current working directory before running the program. Several bug fixes have been made and some restrictions have been made on the hours the game can be played.

For a bit of history, DUNGEON is a FORTRAN version of ZORK (they said it couldn't be done). The creators of ZORK started INFOCOM and came out with ZORK I, II and III. ZORK I is a striped down version of the original ZORK. DUNGEON does not have everything that the original ZORK had. Namely it is missing the full parser and the end game puzzle. If you have a DEC version that is complete (i.e with the end game puzzle) please send it to INTEREX. The game has been floating around the ARPA net for years.

Dungeon was created at the Programming Technology Division of the MIT Laboratory for Computer Science by Tim Anderson, Marc Blank, Bruce Daniels, and Dave Lebling. It was inspired by the Adventure game of Crowther and Woods, and the Dungeons and Dragons game of Gygax and Arneson. The original version was written in MDL (alias MUDDLE). The current version was translated from MDL into FORTRAN by Bob Supnik of DEC Disk Engineering, and modified for HP 1000 by Tom Hutchinson. Perhaps I may write an end game puzzle after I can get a perfect score.

Additional Documentation.....:

If you have not played this game before, try typing OPEN MAILBOX and READ LEAFLET. Lower case letters can be used at anytime. Wizards can do a few of things that mortals cannot do. HELP and INFO are also useful commands. If you want complete help, look at DUNGEON.HINT. It will tell more than you want to know but maybe not as much as you would like.

HACKER

RTE-6 SYSTEM INFORMATION PROGRAM

M061

Contribution Name.....: HACKER
Title.....: RTE-6 System Information Program
File Names.....: 00. Rename transfer file.
 : 01. HACKER 6.SBMT Submission file
 : 02. HACKER 6.FTN - Source file
 : 03. HACKER 6.REL - Relocatable
 : 04. HACKER 6.LOD - LINK command
Operating System(s).....: RTE-6/VM
Language(s).....: FTN77
Keywords.....: 1. System
 : 2. Decode
 : 3. Security
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
 Company.....: U.S. Naval Station
 Street.....: CSAD Code 3441
 City.....: Seal Beach
 State.....: CA.
 Zip Code.....: 90740
 Phone Number...: (213) 594-7887
 Telex.....:
Contribution Abstract.....:

This program shows you all the things system managers go to so much trouble to keep secret. This program gives you the following:

1. The master security code in decimal, octal and ascii.
(It even gives you the nonprintable control characters)
2. All users, groups and passwords on the system.
(That includes MANAGER.SYS password)
3. All FMGR files with negative security codes.
(The security codes are given too)

There are no comments in the listings so you will have to work a little to figure these routines out. They use some undocumented features. This shows you how insecure (or insecure) RTE really is. This program really can be put to good use by system managers or HP SE's.

HACKER

RTE-A SYSTEM INFORMATION PROGRAM

M062

Contribution Name.....: HACKER
Title.....: RTE-A System Information Program
File Names.....: 00. Rename transfer file.
 : 01. HACKER A.SBMT Submission file
 : 02. HACKER A.FTN - FORTRAN source
 : 03. HACKER A.REL - Relocatable
 : 04. HACKER A.LOD - LINK command
 : 05. PASSWORD.DAT
Operating System(s).....: RTE-A
Language(s).....: FTN7x
Keywords.....: 1. System
 : 2. Security
 : 3. Decode
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: John L. Anderson Jr.
 Company.....: U.S. Naval Station
 Street.....: Code 3441
 City.....: Seal Beach
 State.....: CA.
 Zip Code.....: 90740
 Phone Number...: (213) 594-7887
 Telex.....:
Contribution Abstract.....:

This program tells you a few things about your RTE-A system your system manager doesn't want you to know. It gives the master security code for file manager files, all FMGR files with negative security codes and some of the logon passwords. On RTE-6/VM it is easy to get all the passwords but on RTE-A the encryption is only one way. Passwords are not unique either. Passwords are from 1 to 16 characters long (but a bug limits it to 14 characters I think), and are folded into a 32 bit floating point number. The algorithm operates on two characters (one word) at a time. All 1 or 2 character passwords are unique and can be found in a matter of seconds. It takes several minutes to try all 3 and 4 character passwords while it takes several hours to test all 5 and 6 character passwords. More than that takes forever (at least days or months). This program gives you all 1 and 2 character passwords (and users with no password). It also tries 3 and 4 character passwords giving you the option of skipping control characters. Another approach is to read in passwords from a disc file and try them. The file PASSWORD.DAT is used to do this. There are about 8000 entries in the file which takes a matter of seconds to try. You can add anything you can think of to this file. One last approach is to try passwords randomly but it is very unlikely that you'll find any so this program doesn't do that. The main point of this program is to show that RTE-A security is not very good but it is a little better than RTE-6/VM. You can always run program SUPER (or SU) to become a super user and get to anything you want. Keep on hacking.

Additional Documentation.....:

If you want passwords that cannot be easily found out, make them at least seven or more characters don't use ordinary words, use lot's of control characters and don't tell anyone what your password is.

INVOKE A PROGRAM WITH FILE MASK

Contribution Name.....: INVOKE
 Title.....: Invoke a Program with File Mask
 File Names.....: 00. Rename transfer file.
 : 01. INVOKE.SBMT Submission file
 : 02. INVOKE.FTN - Source file
 : 03. INVOKE.REL - Relocatable
 : 04. INVOKE.LOD - LINK command
 Operating System(s).....: RTE-6/VM, RTE-A
 Language(s).....: FTN7x
 Keywords.....: 1. Scheduling
 : 2. Batch
 : 3. Filter
 External Support Req'd...:
 If Re-submission, Reason.: Fixed problem with long filenames
 Contributor's Name.....: John L. Anderson Jr.
 Company.....: U.S. Naval Station
 Street.....: CSAD Code 3441
 City.....: Seal Beach
 State.....: CA
 Zip Code.....: 90740
 Phone Number...: (213) 594-7887
 Telex.....:
 Contribution Abstract.....:
 This program will run the specified program every time a file is found
 matching the file mask. Only the first parameter can be masked. Up to
 five parameters are allowed. Example runs:
 CI> Invoke Ftn7x @.ftn 0 -
 CI> Invoke Link @.lod +ma +de
 CI> Invoke Oldre @.rel

TERMINAL GRAPHICS LIBRARY

Contribution Name.....: TGL
 Title.....: Terminal Graphics Library
 File Names.....: 00. Rename transfer file.
 : 01. TGL.SBMT Submission file
 : 02. TGL.FTN - Source file
 : 03. TGL.REL - Relocatable
 : 04. TGL.LIB - LINDX'ed library
 Operating System(s).....: RTE-6/VM, RTE-A
 Language(s).....: FTN7x
 Keywords.....: 1. Terminal
 : 2. Graphics
 : 3. Library
 External Support Req'd...:
 If Re-submission, Reason.: Fixed to work 293x terminals
 Contributor's Name.....: John L. Anderson Jr.
 Company.....: U.S. Naval Station
 Street.....: CSAD Code 3441
 City.....: Seal Beach
 State.....: CA
 Zip Code.....: 90740
 Phone Number...: (213) 594-7887
 Telex.....:
 Contribution Abstract.....:
 This is an old library for drawing graphics on a terminal without the
 overhead of DGL. It has been updates slightly to work with 239x terminals
 instead of 264x terminals. It is used by the CHESS and STARTREK programs.

LIST DIRECTORY CHANGES BETWEEN SPECIFIED TIMES

Contribution Name.....: DLICI
 Title.....: LIST DIRECTORY CHANGES BETWEEN SPECIFIED TIMES
 File Names.....: 000. Rename Transfert File
 : 001. DLICI.SBMT Program submission
 : 002. DLICI.FTN Source program
 : 003. DLICI.HLP User documentation
 : 004. MSRT.FTN Sort program
 : 005. DLICI.REL
 : 006. MSRT.REL
 : 007. INSTLDLICI.CMD
 : 008 MSRT CDS.FTN CDS version of MSRT.FTN
 : 009 DLICI CDS.FTN CDS version of DLICI.FTN
 : 010 MSRT CDS.REL
 : 011 DLICI CDS.REL
 : 012 MSRT CDS.LOD
 : 013 DLICI CDS.LOD
 Operating system(s).....: RTE-A, RTE-6VM
 Language(s).....: FTN7X
 Keywords.....: 1. CI
 : 2. DIRECTORY
 External Support Req'd...:
 If Re-submission, Reason.: Fixed bugs
 Contributor's Name.....: Joseph de Jamblinne
 Company.....: Trimetal Paint Co.
 Street.....: Emmanuellaan 1
 City.....: Machelen
 State.....:
 Country.....: Belgium
 Zip Code.....: B-1830
 Phone Number...: (322) 251 29 91
 Telex.....: 23259 Trimet-B
 Program Abstract.....:
 This program allows the system manager to know which are the new
 and the deleted files in a directory between two times.

```

Contribution Name.....: CHD
Title.....: CHANGE DIRECTORY
File Names.....: 000. Rename Transfert File
                  001. CHD.SBMT      Program submission
                  002. CHD.FTN       Source program
                  003. CHD.HLP       User documentation
                  004. INSTLCHD.CMD
Operating system(s).....: RTE-A, RTE-6VM
Language(s).....: FTN7X
Keywords.....: 1. CI
                2. DIRECTORY
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Joseph de Jamblinne
Company.....: Trimetal Paint Co.
Street.....: Emmanuellaan 1
City.....: Machelen
State.....:
Country.....: Belgium
Zip Code.....: B-1830
Phone Number...: (322) 251 29 91
Telex.....: 23259 Trimet-B
Program Abstract.....:
This program displays and change of directory with always the same
notation in $RETURN_S. The use of .. is allowed.
Additional documentation: In source file.

```

```

Contribution Name.....: WHR
Title.....: Session Activity Report Utility
File Names.....: 000. Rename Transfert File
                  001. WHR.SBMT      Program submission
                  002. WHR.FTN       Source program for rev. < 5.0
                  003. WHR.HLP       User documentation
                  004. INSTLWHR.CMD installation file
                  005. WHR.LOD       load file
                  006. WHR_50.FTN    Source program for 5.0
                  007. WHR.INCL     Some routines for WHR( 50)
                  008. WHR_50.HLP    User documentation WHR_50
Operating system(s).....: RTE-A
Language(s).....: FTN7X
Keywords.....: 1. SESSION
                2. ACCOUNTING
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Joseph de Jamblinne, Steve Steel
Company.....: Trimetal Paint Co.
Street.....: Emmanuellaan 1
City.....: Machelen
State.....:
Country.....: Belgium
Zip Code.....: B-1830
Phone Number...: (322) 251 29 91
Telex.....: 23259 Trimet-B
Program Abstract.....:
This program is a more friendly WH. Before compiling this program
a change MUST be done in source code to alter the value of $IDA, #ID# and
#IDZ. The good value of these are in a generation listing.
Additional documentation: In help and source file.

```

```

Contribution Name.....: WHATREV
Title.....: SEARCH REVISION CODE IN A PROGRAM FILE
File Names.....: 000. Rename Transfert File
                  001. WHATREV.SBMT  Program submission
                  002. WHATREV.FTN   Source program
                  003. WHATREV.HELP  User documentation
                  004. WHATREV.REL
                  005. INSTLWHATREV.CMD
Operating system(s).....: RTE-A, RTE-6VM
Language(s).....: FTN7X
Keywords.....: 1. PROCEDURES
                2. SECURITY
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Joseph de Jamblinne
Company.....: Trimetal Paint Co.
Street.....: Emmanuellaan 1
City.....: Machelen
State.....:
Country.....: Belgium
Zip Code.....: B-1830
Phone Number...: (322) 251 29 91
Telex.....: 23259 Trimet-B
Program Abstract.....:
It is some time useful (especially when working with more than one computer
with the same program) to know which revision is running. With a simple rule
of programmation and this program, it is now possible.
Additional documentation: In help and source file.

```

 DISPLAY/SET 12040D MULTIPLEXOR PORT STATUS

Contribution Name.....: MUXD
 Title.....: Display/set 12040D multiplexor port status
 File Names.....: 000. Rename Transfert File
 : 001. MUXD.SBMT Program submission
 : 002. MUXD.FTN Source program
 : 003. >MUXD User documentation
 : 004. INSTLMUXD.CMD
 Operating system(s).....: RTE-A
 Language(s).....: FTN7X
 Keywords.....: 1. MULTIPLEXOR
 : 2. STATUS
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Joseph de Jamblinne
 Company.....: Trimetal Paint Co.
 Street.....: Emmanuellaan 1
 City.....: Machelen
 State.....:
 Country.....: Belgium
 Zip Code.....: B-1830
 Phone Number...: (322) 251 29 91
 Telex.....: 23259 Trimet-B
 Program Abstract.....:
 This program allows the operator to interactively set parameter of
 a D-mux LU such as baud rate, parity handshake, type-ahead mode, and so
 on. (When running modification a ? will give more explanation on the opera-
 tion.)
 It also displays the current configuration of a mux LU.

 BIT_MAP_ANALYSIS

M070

ANALYZE BIT MAP OF CI VOLUMES

Contribution Name.....: BIT MAP ANALYSIS
 Title.....: ANALYZE BIT MAP OF CI VOLUMES
 File Names.....: 00. Rename Transfer File
 : 01. BIT_MAP_ANALYSIS.SBMT
 : 02. ?BITMP
 : 03. BIT_MAP_ANAL.FTN
 : 04. BIT_MAP_ANAL.LOD
 : 05. BIT_MAP_ANAL.CMD
 Operating System(s).....: rte-6 & rte-a
 Language(s).....: fortran 77
 Keywords.....: 1. CI
 : 2. disc
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Manfred Baer
 Company.....: ETH Zurich
 Street.....: Honggerberg
 City.....: Zurich
 State.....:
 Country.....: Switzerland
 Zip Code.....: 8093
 Phone Number...: 1-377 2627
 Telex.....: 823480 eheb
 Contribution Abstract.....:
 The program searches the bit map table of
 CI volumes and reports the number of times
 a given file size will fit on the volume
 either on the terminal or on file.
 Optionally the complete bit map is stored
 on a disc file.

 AGING ON RTE-A

M071

RTE-6/VM LIKE PARTITION PRIORITY AGING ON RTE-A

Contribution Name.....: AGING on RTE-A
 Title.....: RTE-6/VM like partition priority aging on RTE-A
 Also a good example in system programming in
 Fortran with FTN7X
 File Names.....: 00. Rename Transfer File
 : 01. AGING.SBMT
 : 02. AGING.FTN
 : 03. AGING.REL
 Operating System(s).....: RTE-A
 Language(s).....: FTN7X
 Keywords.....: 1. partition
 : 2. system
 : 3. system_tables
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Manfred Hoeckendorff
 Company.....: Hewlett Packard
 Street.....: Kapstadtring 5
 City.....: Hamburg
 State.....:
 Country.....: Germany
 Zip Code.....: D2000
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 A small program showing how to do system
 programming in Fortran with FTN7X and it
 does partition priority aging for those
 programs which are not in the scheduled
 list and resets the partition priority
 to the program priority if in the scheduled
 list. The effect is that all those programs
 hanging in memory class suspended with
 high priority for hours and days like
 DS-Monitors ... will be swaped after
 some time.
 Additional Documentation....: Look also to the AG-Systemcomand in RTE-6

```

Contribution Name.....: XACTNS
Title.....: File counter for QDM/1000
File Names.....:00. Rename Transfer File
                  :01. XACTNS.SBMT
                  :02. ?XACTNS Help file
                  :03. XACTNS.FTN
                  :04. XACTNS.REL
                  :05. XACTNS.LOD
                  :06. XACTNS.CMD
Operating system(s)....: RTEA 5.0
Uses hierarchical files?:
Language(s).....:FORTRAN 77
Keywords.....: 1. QDM
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Markus Bruetsch
Company.....: Pacesetter Siemens
Street.....: 12740 San Fernando Rd.
                  : FIS/582-N1
City.....: Sylmar
State.....: Calif
Country.....: USA
Zip Code.....: 91342
Phone Number...: (818) 362-6822
Program Abstract.....:
This routine counts all the !Rxxxxxx and !Bxxxxxx QDM spool files in the
/QDM XACTN DATA directory and reports them to the operator.
Additional Documentation....: See the source code

```

```

Contribution Name.....: MASS
Title.....: Multi run-program with file-mask
File Names.....:00. Rename Transfer File
                  :01. mass.sbmt
                  :02. mass.ftn
                  :03. mass.rel
Operating System(s)....: RTE 6 RTE A
Language(s).....: FTN7x
Keywords.....: 1. Filter
                  : 2. CI
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Matton Jean-Louis
Company.....: Univ. Cath. Louvain
Street.....: Av. Hippocrate 55/5560
City.....: Bruxelles
State.....:
Country.....: Belgium
Zip Code.....: B-1200
Phone Number...: 32 2 7645561
Telex.....: UCLWOL B 23722
Contribution Abstract.....: Program MASS works basically just like
program specified in parameter 1, except you can specify a file-mask
in the runstring instead of just one file. The specified program
will be run multiple times in sequence for each file matching
the filemask.
i.e. ru MASS progname filemask [par for progname]
Additional Documentation....: Run MASS without parameters (ru mass)
Note: this program is a generalisation of
MED (Seppo Pietikainen HP Finland)

```

```

Contribution Name.....: MENU
Title.....: MENU BUILDER
File Names.....:00. Rename Transfer File
                  :01. MENU.SBMT
                  :02. MENU.FTN
                  :03. MENU.REL
                  :04. MENU.LOD
                  :05. MENU.DOC
                  :06. MENU.MAKE
                  :07. DL.PNL
                  :08. SP.PNL
                  :09. WH.PNL
                  :10. SUB.PNL
                  :11. C&L.PNL
Operating System(s)....: RTE-A, RTE-6
Language(s).....: FTN7X
Keywords.....: 1. MENU
                  : 2. SHELL
External Support Req'd...: None
If Re-submission, Reason.: Enhancements
Contributor's Name.....: Michael Johnson & Tom Penninga
Company.....: Rochester Product Division
Street.....: 2100 Burlingame
City.....: Grand Rapids
State.....: Michigan
Country.....: USA
Zip Code.....: 49501
Phone Number...: (616) 247-5969
Telex.....:
Program Abstract.....: This utility will take a user built menu
and build a menu/command scheduler from it. User defines if system
returns to menu or to CI. Utility allows easy operation of similar tasks
such as spooling, dl, edit/link/compile, etc. See Menu.Doc for several
examples. Several sample menu panels are included. Simply enter MENU WH
or MENU DL for a quick scan of how it works. Enhancements allow sub-menus,
CI commands from the menu, global variables to be pasted into the menu, and

```


immediate return from menu.
Additional Documentation....:
See Menu.DOC for examples of how to use it.

DATE M075

RETURN DATE/TIME TO CI

Contribution Name.....: DATE
Title.....: Return Date/Time to CI
File Names.....:00. Rename Transfer File
 :01. DATE.SBMT
 :02. DATE.FTN (source file)
 :03. DATE.HELP (help file)
 :04. DATE.REL (relocatable file)
 :05. DATE.MAKE (make file)
 :06. DATE.LOD (load file)
Operating System.....: RTE-A, RTE-6/vm
Language(s).....: Fortran
Keywords.....: 1. DATE
 : 2. TIME
 : 2. CI
External Support Req'd...:
If Re-submission, Reason.: Bug Fixes to San Jose Swap Version
Contributor's Name.....: Paul F. Gervitz
Company.....: Eastman Kodak Company
Street.....: MSD, Bldg.56/3, Kodak Park
City.....: Rochester
State.....: New York
Country.....: USA
Zip Code.....: 14650
Phone Number...: 716-477-3067
Telex.....:
Program Abstract.....:
This program is a handy utility to return the Date and Time to CI.
We use it in standard overnight backup procedure to determine what
type of backup to run on a specific day.
Thanks to Don Clapp for Bug Report
Additional Documentation....: See Help file

DP M076

DISPLAY PARAMETERS IN VARIOUS FORMATS

Contribution Name.....: DP
Title.....: Display parameters in various formats
File Names.....:00. Rename Transfer File
 :01. DP.SBMT
 :02. DP.FTN (source file)
 :03. DP.HELP (help file)
 :04. DP.REL (relocatable file)
 :05. DP.MAKE (make file)
 :06. DP.LOD (load file)
Operating System.....: RTE-A, RTE-6/vm
Language(s).....: Fortran
Keywords.....: 1. CI
 : 2. TOOLS
External Support Req'd...:
If Re-submission, Reason.: Bug Fixes, Enhancements to San Jose Swap Ver.
Contributor's Name.....: Paul F. Gervitz
Company.....: Eastman Kodak Company
Street.....: MSD, Bldg.56/3, Kodak Park
City.....: Rochester
State.....: New York
Country.....: USA
Zip Code.....: 14650
Phone Number...: 716-477-3067
Telex.....:
Program Abstract.....:
This program is a handy utility to display those nasty CI globals
that usually are displayed in unuseful formats
Additional Documentation....: See Help file

KERMIT M077

KERMIT 1.99C - MACHINE-TO-MACHINE FILE TRANSFER

Contribution Name.....: KERMIT
Title.....: KERMIT 1.99c - Machine-to-machine file transfer
File Names.....:00. Rename Transfer File
 :01. KERMIT.SBMT Submission file
 :02. *COPY Copyright info about KERMIT
 :03. *INFO Other KERMIT's available
 :04. ADDENDUM KERMIT-RTE user info
 :05. PROTO.DOC KERMIT Protocol Manual
 :06. USER.DOC KERMIT User's Manual
 :07. KCMNDS.ftnl Common include-file
 :08. KCONCW.ftnl Common include-file
 :09. KERCMD.ftnl Common include-file
 :10. KERCNF.ftnl Common include-file
 :11. KERCOM.ftnl Common include-file
 :12. KERDBG.ftnl Common include-file
 :13. KERFIL.ftnl Common include-file
 :14. KERSTA.ftnl Common include-file
 :15. KERMIT.ISTL Installation instructions
 :16. K6SUBS.FTN RTE-6 KERMIT-library source
 :17. KASUBS.FTN RTE-A KERMIT-library source
 :18. KERMIT.FTN KERMIT source
 :19. \$K6SUBS.LIB KERMIT library for RTE-6
 :20. \$KASUBS.LIB KERMIT library for RTE-A
 :21. KERMIT.LOD Link command file for KERMIT
 :22. KERMIT.REL KERMIT object (A or 6)

```

:23. KERMIT.HLP      Indexed help-file
:24. KERMIT.TEXT    "Source" for KERMIT.HLP
Operating System.....: RTE-6 or RTE-A, revision c.83 and later
Language(s).....: FTN7X
Keywords.....: 1. File transfer
               2. Data-comm
               3. Network
External Support Req'd...: 12792B/C (RTE-6) or 12040B/C/D (RTE-A) mux
If Re-submission, Reason.: Bug fixes and enhancements
Contributor's Name.....: 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) 457-5358
Telex.....:
Contribution Abstract.....: KERMIT-RTE transfers files between an HP-1000
and any other machine equipped with a KERMIT program over RS-232 lines (on
a 12040B/C/D or 12792B/C mux), and also provides basic terminal-emulation.
See KERMIT.ISTL for a detailed list of features and unsolved problems in
this version.
Additional Documentation....: See KERMIT.ISTL for installation instructions.

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SKETCH

M078

SKETCH REV. 5.1 (PART 1 OF 9)

```

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 1 of 9)
File Names.....: 000. Rename Transfer File
                : 001. SKETCH.SBMT (submission file)
                : 002. README
                : 003. BRUNO CONVERTERS.DOC
                : 004. MAKEFILE
                : 005. MANUAL.1000
                : 006. PRODUCE TAPE.TF
                : 007. SK.2397
                : 008. SK.2623
                : 009. SK.2627
                : 010. SK.DEVS
                : 011. SK.WSPS
                : 012. SK.HELP
                : 013. SKPLOT.HELP
                : 014. SKSUBS.LIB
                : 015. SKSUBS.MERG
                : 016. ADD_ARC_NODE.FTN
                : 017. ADD_ARC_TO_P.FTN
                : 018. ADD_CURVE_NO.FTN
                : 019. ADD_CURVE_TO.FTN
                : 020. ADD_EXTENT.FTN
                : 021. ADD_KNOTS.FTN
                : 022. ADD_LINE_MOD.FTN
                : 023. ADD_MACRO.FTN
                : 024. ADD_MARKER_N.FTN
                : 025. ADD_NODE.FTN
                : 026. ADD_POINT_TO.FTN
                : 027. ADD_POLY_MEM.FTN
                : 028. ADD_POLY_MOD.FTN
                : 029. ADD_STACK.FTN
                : 030. ADD_TEXT_MOD.FTN
                : 031. ADD_TO_POLY.FTN
                : 032. ALLOCATE_HEA.FTN
                : 033. ALLOCATE_SPA.FTN
                : 034. ALPHA_FIX.FTN
                : 035. ANGLE.FTN
                : 036. APICK_AFFECT.FTN
                : 037. ARCHIVE2SK.FTN
                : 038. ARC_ENDS.FTN
                : 039. ARC_LIMITS.FTN
                : 040. ARC_MODE.FTN
                : 041. ATTACH_TO_CB.FTN
                : 042. BASENAME.FTN
                : 043. BFTSK.FTN
                : 044. BLOCK_READ.FTN
                : 045. BFTSK.FTN
                : 046. CALC_ROTATE.FTN
                : 047. CALC_START.FTN
                : 048. CALC_STRETCH.FTN
                : 049. CALC_TEXT_EN.FTN
                : 050. CALC_TEXT_OR.FTN
                : 051. CHANGE_CMODE.FTN
                : 052. CHANGE_CURVE.FTN
                : 053. CHANGE_GEN_A.FTN
                : 054. CHANGE_LIMIT.FTN
                : 055. CHANGE_POLY.FTN
                : 056. CHANGE_TEXT.FTN
                : 057. CHANGE_WINDO.FTN
                : 058. CLEAR_ALL_SE.FTN
                : 059. CLEAR_ALPHA.FTN
                : 060. CLEAR_DATA_B.FTN
                : 061. CLONE.FTN
                : 062. CLONE_AREA.FTN
                : 063. CLONE_SEGMEN.FTN
                : 064. CLOSE_CONSTR.FTN
                : 065. CLOSE_CURVE.FTN
                : 066. CLOSE_PICK_A.FTN
                : 067. CLOSE_POLY_N.FTN
                : 068. CLOSE_TEXT_N.FTN
                : 069. COLOR_TABLE.FTN
                : 070. CONSTRUCT_AR.FTN
                : 071. CONSTRUCT_CO.FTN
                : 072. CONSTRUCT_LI.FTN
                : 073. CONSTRUCT_LS.FTN
                : 074. CONSTRUCT_MA.FTN
                : 075. CONSTRUCT_PK.FTN
                : 076. COPY_ATTRIBU.FTN
                : 077. COPY_NODE.FTN
                : 078. CREATE_DRWG.FTN
                : 079. CREATE_DRWG.FTN
                : 080. CURVE_MODE.FTN
                : 081. DEALLOCATE_N.FTN
                : 082. DEALLOCATE_S.FTN
                : 083. DEFAULT.FTN

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:084. DELETE KNOTS.FTN
:085. DELETE NODE.FTN
:086. DELETE SPACE.FTN
:087. DELETE UNCHA.FTN
:088. DRAW ALL CON.FTN
:089. DRAW ALL SEC.FTN
:090. DRAW ARC SEC.FTN
:091. DRAW COLOR.FTN
:092. DRAW COLOR T.FTN
:093. DRAW CONSTRU.FTN
:094. DRAW CURVE S.FTN
:095. DRAW ELIPSE.FTN
:096. DRAW GEN ATT.FTN
:097. DRAW GRID.FTN
:098. DRAW KNOTS.FTN
:099. DRAW LINE SE.FTN
Operating System.....: RTE-A/VC+
Language(s).....: FTN7X
Keywords.....: 1. Graphics
: 2. Plotting
: 3. Figures
External Support Req'd...:
If Re-submission, Reason.: New version with additional features
Contributor's Name.....: Philip Walden
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
: M/S 42UM
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000

```

Program Abstract.....: This is the latest version of the popular SKETCH program.

SKETCH is a general purpose graphics editor. It allows users to create source graphics documents, store them, retrieve them for further editing, and plot hard copy final documents.

SKETCH has been found useful with several tasks:

- Transparencies for presentations
- Technical illustrations
- Floor plan layouts
- Simple drafting
- Schematic drawings
- Report Covers

Unlike many previous graphics presentation packages, SKETCH is an interactive graphics application and is much easier to use if a pointing device such as a mouse or a graphics tablet is available. However, a pointing device is not necessary, since commands can be entered almost as fast from the keyboard. SKETCH also takes advantage of the device independent features of AGP (HP's Advanced Graphics Package), meaning that SKETCH should work on present and future AGP supported work stations and hard copy devices.

Additional Documentation....: MANUAL.1000

SKETCH

M079

SKETCH REV. 5.1 (PART 2 OF 9)

```

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 2 of 9)
File Names.....: 00. Rename Transfer File
: 01. SKETCH2.SBMT
: 02. DRAW POLY AT.FTN
: 03. DRAW SCREEN.FTN
: 04. DRAW SEGMENT.FTN
: 05. DRAW SEGS.FTN
: 06. DRAW STYLE.FTN
: 07. DRAW STYLE T.FTN
: 08. DRAW TEXT AT.FTN
: 09. DRAW TEXT SE.FTN
: 10. DRWG FUNCTIO.FTN
: 11. DRWG TYPE.FTN
: 12. D RESOLUTION.FTN
: 13. EDIT.FTN
: 14. EDIT AREA.FTN
: 15. EDIT BCKGRND.FTN
: 16. EDIT COLOR T.FTN
: 17. EDIT CURVE A.FTN
: 18. EDIT CURVE E.FTN
: 19. EDIT GEN ATT.FTN
: 20. EDIT GROUP.FTN
: 21. EDIT POLY AT.FTN
: 22. EDIT SEGMENT.FTN
: 23. EDIT STYLE T.FTN
: 24. EDIT TEXT AT.FTN
: 25. EXEC PROG.FTN
: 26. EXPAND WINDO.FTN
: 27. FIND GROUP.FTN
: 28. FONT LEN FAC.FTN
: 29. FPEEK.FTN
: 30. FRAME.FTN
: 31. FTNERROR.FTN
: 32. FUNCTION TYP.FTN
: 33. FUNC HILITED.FTN
: 34. FUNC VIS.FTN
: 35. GET ALPHA DE.FTN
: 36. GET ARC.FTN
: 37. GET ARC DATA.FTN
: 38. GET BCKGRND.FTN
: 39. GET BUTTON.FTN
: 40. GET BUTTON D.FTN
: 41. GET COLOR.FTN
: 42. GET COLOR MO.FTN
: 43. GET CURVE LI.FTN
: 44. GET CURVE SI.FTN
: 45. GET DISPLAY.FTN
: 46. GET DRWG C T.FTN
: 47. GET DRWG LIM.FTN
: 48. GET DRWG_NAM.FTN

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:49. GET DRWG S I.FTN
:50. GET ENDS.FTN
:51. GET EXTENT.FTN
:52. GET FLAGS.FTN
:53. GET GEN ATTR.FTN
:54. GET INS MRG .FTN
:55. GET INT.FTN
:56. GET INT REC.FTN
:57. GET LEN.FTN
:58. GET LINE.FTN
:59. GET LINE DAT.FTN
:60. GET LOCATOR .FTN
:61. GET MACRO LI.FTN
:62. GET MARKER.FTN
:63. GET MODEL MA.FTN
:64. GET MOD COLO.FTN
:65. GET NEXT.FTN
:66. GET NO COLOR.FTN
:67. GET NO POLYC.FTN
:68. GET NO STYLE.FTN
:69. GET NO TEXT .FTN
:70. GET PLACE OP.FTN
:71. GET POINT FR.FTN
:72. GET POINT ON.FTN
:73. GET POLY ATT.FTN
:74. GET POLY LIM.FTN
:75. GET POLY SIZ.FTN
:76. GET PREVIOUS.FTN
:77. GET REAL.FTN
:78. GET REAL REC.FTN
:79. GET REC.FTN
:80. GET SEGMENT.FTN
:81. GET STYLE.FTN
:82. GET TEXT ATT.FTN
:83. GET TEXT BOX.FTN
:84. GET TEXT DAT.FTN
:85. GET TEXT LIM.FTN
:86. GET TEXT LIN.FTN
:87. GET TRGT TAB.FTN
:88. GET TYPE.FTN
:89. GHOME.FTN
:90. GLOB SPACE.FTN
:91. GRID CONTROL.FTN
:92. GRID SPACING.FTN
:93. GROUP EDIT I.FTN
:94. GROUP MODE.FTN
:95. HILITE.FTN
:96. HSL TO RGB.FTN
:97. IMODE.FTN
:98. IMODE2.FTN
:99. DRAW MARKER .FTN
Operating System.....: RTE-A/VC+
Language(s).....: FTN7X
Keywords.....: 1. Graphics
: 2. Figures
: 3. Plotting
External Support Req'd...:
If Re-submission, Reason.: New version with additional features
Contributor's Name.....: Philip Walden
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
: M/S 42UM
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number.....: (408) 257-7000
Program Abstract.....: See abstract in part 1 of this contribution
Additional Documentation.....: MANUAL.1000

```

SKETCH

SKETCH REV. 5.1 (PART 3 OF 9)

M080

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 3 of 9)
File Names.....:00. Rename Transfer File
:01. SKETCH3.SBMT
:02. INIT DISPLAY.FTN
:03. INIT WS DATA.FTN
:04. INSERT.FTN
:05. INSERT DRWG.FTN
:06. INSERT SPACE.FTN
:07. INSIDE WINDO.FTN
:08. IN ALPHA.FTN
:09. IN MENU.FTN
:10. JEDIT.FTN
:11. JEDOF.FTN
:12. JINPUT.FTN
:13. JWRIIL.FTN
:14. JWRIIM.FTN
:15. JWRIIP.FTN
:16. JWRIIS.FTN
:17. K11776SDF CDS.FTN
:18. K4222NTE CDS.FTN
:19. K6141PAG-CDS.FTN
:20. KEYBOARD INP.FTN
:21. KURV1.FTN
:22. KURV2.FTN
:23. KURVP1.FTN
:24. KURVP2.FTN
:25. LINE_MODE.FTN
:26. LOAD_COLOR T.FTN
:27. LOAD_STYLE T.FTN
:28. LOCATE POINT.FTN
:29. MAIN.FTN
:30. MASH.FTN
:31. MASH_MACRO.FTN
:32. MATRIX_MULT.FTN
:33. MENUFUNC.FTN
:34. MERGE.FTN
:35. MERGE DRWG.FTN
:36. METHEUS_FIX.FTN
:37. MIN_MAX.FTN
:38. MOVE.FTN

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:39. MOVE KNOTS.FTN
:40. MOVE NODE.FTN
:41. NEAREST TO.FTN
:42. OPEN CONSTRU.FTN
:43. OPEN CURVE R.FTN
:44. OPEN CURVE L.FTN
:45. OPEN DRWG.FI.FTN
:46. OPEN PICK AR.FTN
:47. OPEN POLY NO.FTN
:48. OPEN TEXT NO.FTN
:49. PAN.FTN
:50. PICK SEGMENT.FTN
:51. POLAR MINMAX.FTN
:52. POLYGON MODE.FTN
:53. POLYSET MODE.FTN
:54. POP STACK.FTN
:55. PSTYLE TABLE.FTN
:56. PURGE.FTN
:57. PURGE ALL SE.FTN
:58. PURGE CONSTR.FTN
:59. PURGE GEN AT.FTN
:60. PURGE GRID.FTN
:61. PURGE NODE.FTN
:62. PURGE POLY A.FTN
:63. PURGE SEG.FTN
:64. PURGE STACK.FTN
:65. PURGE TABLE.FTN
:66. PURGE TEXT A.FTN
:67. PUSH STACK.FTN
:68. READ DATA.FTN
:69. READ DRWG.FTN
:70. READ DRWG NA.FTN
:71. READ GROUP.FTN
:72. READ INT.FTN
:73. READ INT DAT.FTN
:74. READ ITEM.FTN
:75. REALTODECIMA.FTN
:76. RECALCULATE.FTN
:77. RECALC ALL L.FTN
:78. RECALC ATTRI.FTN
:79. RECALC TEXT.FTN
:80. REFRESH ATTR.FTN
:81. REFRESH COLO.FTN
:82. REFRESH CURV.FTN
:83. REFRESH DISP.FTN
:84. REFRESH GEN.FTN
:85. REFRESH POLY.FTN
:86. REFRESH STYL.FTN
:87. REFRESH TEXT.FTN
:88. REPLACE DRWG.FTN
:89. RES.FTN
:90. RESET WINDOW.FTN
:91. RGB TO HSL.FTN
:92. ROTATE.FTN
:93. ROUND.FTN
:94. SAVE ARC.FTN
:95. SAVE CURVE A.FTN
:96. SAVE HLLITES.FTN
:97. SAVE IN UNCH.FTN
:98. INITA.FTN
:99. INITD.FTN

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Operating System.....: RTE-4/VC+
Language(s).....: FTN7X
Keywords.....: 1. Graphics
: 2. Figures
: 3. Plotting

External Support Req'd...:
If Re-submission, Reason...: New version with additional features
Contributor's Name.....: Philip Walden
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
City.....: M/S 42UM
State.....: Cupertino
Country.....: CA
Zip Code.....: USA
Phone Number.....: 95014
: (408) 257-7000
Program Abstract.....: See abstract in part 1 of this contribution
Additional Documentation.....: MANUAL.1000

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M081

SKETCH

SKETCH REV. 5.1 (PART 4 OF 9)

```

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 4 of 9)
File Names.....: 00. Rename Transfer File
: 01. SKETCHA.SBMT
: 02. SAVE TEXT AT.FTN
: 03. SAVE TEXT LI.FTN
: 04. SCHED PLOT.FTN
: 05. SCREEN READ.FTN
: 06. SCREEN VIS.FTN
: 07. SDINT.FTN
: 08. SEDEV.FTN
: 09. SEGMENT EXIS.FTN
: 10. SET ALPHA LO.FTN
: 11. SET DDDF.FTN
: 12. SET FONT.FTN
: 13. SET FST POLY.FTN
: 14. SET LIMITS.FTN
: 15. SET POLY POS.FTN
: 16. SET WINDOW.FTN
: 17. SHOW.FTN
: 18. SK1000.FTN
: 19. SK2ARCHIVE.FTN
: 20. SKIP POLY RE.FTN
: 21. SKIP READ.FTN
: 22. SKPLO.FTN
: 23. SLEN.FTN
: 24. SMAKV.FTN
: 25. SNAP.FTN
: 26. SPSUB.FTN
: 27. STRETCH.FTN
: 28. SYSTEM MODE.FTN

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:29. TERMD.FTN
:30. TEXT LEN.FTN
:31. TEXT MODE.FTN
:32. TOGGLE ALTER.FTN
:33. TOGGLE APICK.FTN
:34. TOGGLE DIGIT.FTN
:35. TOGGLE FAST.FTN
:36. TOGGLE FST P.FTN
:37. TOGGLE GRID.FTN
:38. TOGGLE KEYBO.FTN
:39. TOGGLE PICK.FTN
:40. TOGGLE SNAP.FTN
:41. TRANSFORM AR.FTN
:42. TRANSFORM CU.FTN
:43. TRANSFORM LI.FTN
:44. TRANSFORM OB.FTN
:45. TRANSFORM PO.FTN
:46. TRANSFORM SE.FTN
:47. TRANSFORM TE.FTN
:48. UNIQPATH.FTN
:49. UNIPURGE.FTN
:50. UPD ARC DATA.FTN
:51. UPD COLOR.FTN
:52. UPD COLOR MO.FTN
:53. UPD DRWG LIM.FTN
:54. UPD DRWG NAM.FTN
:55. UPD EXTENT.FTN
:56. UPD FLAGS.FTN
:57. UPD GEN ATR.FTN
:58. UPD INT.FTN
:59. UPD INT REC.FTN
:60. UPD LINE DAT.FTN
:61. UPD LOCP.FTN
:62. UPD MACRO LI.FTN
:63. UPD MODEL MA.FTN
:64. UPD NEXT.FTN
:65. UPD NO POLYG.FTN
:66. UPD NO TEXT.FTN
:67. UPD POINT TO.FTN
:68. UPD POLY ATT.FTN
:69. UPD PREVIOUS.FTN
:70. UPD PT TO CU.FTN
:71. UPD REAL.FTN
:72. UPD REAL REC.FTN
:73. UPD REC.FTN
:74. UPD STYLE.FTN
:75. UPD TEXT ATT.FTN
:76. UPD TEXT DAT.FTN
:77. UPD WSP C TB.FTN
:78. UPD WSP S TB.FTN
:79. UPSHFT.FTN
:80. WRITE DATA.FTN
:81. WRITE DRWG.FTN
:82. WRITE INT.FTN
:83. WRITE INT DA.FTN
:84. XFORM.FTN
:85. XFORM CURVE.FTN
:86. XFORM POLY L.FTN
:87. YES NO.FTN
:88. YES NO QUIT.FTN
:89. ADD ARC NODE.REL
:90. ADD ARC TO P.REL
:91. ADD CURVE NO.REL
:92. ADD CURVE TO.REL
:93. ADD EXTENT.REL
:94. ADD KNOTS.REL
:95. ADD LINE NOD.REL
:96. ADD MACRO.REL
:97. SAVE LINE.FTN
:98. SAVE MARKER.FTN
:99. SAVE POLY AT.FTN
Operating System..... RTE-A/VC+
Language(s)..... FTN7X
Keywords..... 1. Graphics
               2. Figures
               3. Plotting
External Support Req'd...
If Re-submission, Reason... New version with additional features
Contributor's Name..... Philip Walden
Company..... Hewlett-Packard
Street..... 11000 Wolfe Road
                M/S 42UM
City..... Cupertino
State..... CA
Country..... USA
Zip Code..... 95014
Phone Number... (408) 257-7000
Program Abstract..... See abstract in part 1 of this contribution
Additional Documentation.... MANUAL.1000

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SKETCH

SKETCH REV. 5.1 (PART 5 OF 9)

M082

Contribution Name..... SKETCH
Title..... SKETCH REV. 5.1 (part 5 of 9)
File Names..... 000. Rename Transfer File
 01. SKETCH5.SBMT
 02. ADD STACK.REL
 03. ADD TEXT NOD.REL
 04. ADD TO POLY.REL
 05. ALLOCATE HEA.REL
 06. ALLOCATE SPA.REL
 07. ALPHA FIX.REL
 08. ANGLE.REL
 09. APICK AFFECT.REL
 10. ARCHIVE2SK.REL
 11. ARC ENDS.REL
 12. ARC LIMITS.REL
 13. ARC MODE.REL
 14. ATTACH TO CH.REL
 15. BASENAME.REL
 16. BFTSK.REL
 17. BLOCK READ.REL
 18. BSTSK.REL

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:19. CALC ROTATE.REL
:20. CALC START.REL
:21. CALC STRETCH.REL
:22. CALC TEXT EN.REL
:23. CALC TEXT OR.REL
:24. CHANGE CMODE.REL
:25. CHANGE CURVE.REL
:26. CHANGE GEN A.REL
:27. CHANGE LIMIT.REL
:28. CHANGE POLY.REL
:29. CHANGE TEXT.REL
:30. CHANGE WINDU.REL
:31. CLEAR ALL SE.REL
:32. CLEAR ALPHA.REL
:33. CLEAR DATA B.REL
:34. CLONE.REL
:35. CLONE AREA.REL
:36. CLONE SEGMENT.REL
:37. CLOSE CONSTR.REL
:38. CLOSE CURVE.REL
:39. CLOSE PICK A.REL
:40. CLOSE POLY N.REL
:41. CLOSE TEXT N.REL
:42. COLOR TABLE.REL
:43. CONSTRUCT AR.REL
:44. CONSTRUCT CO.REL
:45. CONSTRUCT LI.REL
:46. CONSTRUCT LS.REL
:47. CONSTRUCT MA.REL
:48. CONSTRUCT PK.REL
:49. COPY ATTRIBU.REL
:50. COPY NODE.REL
:51. CREATE DRWG.REL
:52. CREATE DRWG.REL
:53. CURVE MODE.REL
:54. DEALLOCATE N.REL
:55. DEALLOCATE S.REL
:56. DEFAULT.REL
:57. DELETE KNOTS.REL
:58. DELETE NODE.REL
:59. DELETE SPACE.REL
:60. DELETE UNCHA.REL
:61. DRAW ALL CON.REL
:62. DRAW ALL SEG.REL
:63. DRAW ARC SEG.REL
:64. DRAW COLOR.REL
:65. DRAW COLOR T.REL
:66. DRAW CONSTKU.REL
:67. DRAW CURVE S.REL
:68. DRAW ELIPSE.REL
:69. DRAW GEN ATT.REL
:70. DRAW GRID.REL
:71. DRAW KNOTS.REL
:72. DRAW LINE SE.REL
:73. DRAW MARKER.REL
:74. DRAW POLYGON.REL
:75. DRAW POLY AT.REL
:76. DRAW SCREEN.REL
:77. DRAW SEGMENT.REL
:78. DRAW SEGS.REL
:79. DRAW STYLE T.REL
:80. DRAW TEXT AT.REL
:81. DRAW TEXT SE.REL
:82. DRAC FUNCTIO.REL
:83. DRWG TYPE.REL
:84. D RESOLUTION.REL
:85. EDIT.REL
:86. EDIT AREA.REL
:87. EDIT BCKGRND.REL
:88. EDIT COLOR T.REL
:89. EDIT CURVE A.REL
:90. EDIT CURVE E.REL
:91. EDIT GEN ATT.REL
:92. EDIT GROUP.REL
:93. EDIT POLY AT.REL
:94. EDIT SEGMENT.REL
:95. ADD MARKER N.REL
:96. ADD NODE.REL
:97. ADD POINT TO.REL
:98. ADD POLY MEM.REL
:99.

```

```

Operating System.....: RTE-A7VC+
Language(s).....: FTN7K
Keywords.....: 1. Graphics
: 2. Figures
: 3. Plotting

External Support Req'd...:
If Re-submission, Reason.: New version with additional features
Contributor's Name.....: Philip Walden
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
: M/S 42UM
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Program Abstract.....: See abstract in part 1 of this contribution
Additional Documentation...: MANUAL.1000

```

SKETCH

SKETCH REV. 5.1 (PART 6 OF 9)

M083

```

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 6 of 9)
File Names.....: 000. Rename Transfer File
: 01. SKETCH6.SBMT
: 02. FPEEK.REL
: 03. FRAME.REL
: 04. FTNERROR.REL
: 05. FUNCTION TYP.REL
: 06. FUNC HILITTED.REL
: 07. FUNC VIS.REL
: 08. GET_ALPHA_DE.REL

```

```

:09. GET ARC.REL
:10. GET ARC DATA.REL
:11. GET BCKGRND.REL
:12. GET BUTTON.REL
:13. GET BUTTON D.REL
:14. GET COLOR.REL
:15. GET COLOR MO.REL
:16. GET CURVE LI.REL
:17. GET CURVE SI.REL
:18. GET DISPLAY.REL
:19. GET DRWG C T.REL
:20. GET DRWG LIM.REL
:21. GET DRWG NAM.REL
:22. GET DRWG S T.REL
:23. GET ENDS.REL
:24. GET EXTENT.REL
:25. GET FLAGS.REL
:26. GET GEN ATTR.REL
:27. GET INS MRG.REL
:28. GET INT.REL
:29. GET INT REC.REL
:30. GET LEN.REL
:31. GET LINE.REL
:32. GET LINE DAT.REL
:33. GET LOCATOR.REL
:34. GET MACRO LI.REL
:35. GET MARKER.REL
:36. GET MODEL MA.REL
:37. GET MOD COLO.REL
:38. GET NEXT.REL
:39. GET NO COLOR.REL
:40. GET NO POLYG.REL
:41. GET NO STYLE.REL
:42. GET NO TEXT.REL
:43. GET PLACE OP.REL
:44. GET POINT FR.REL
:45. GET POINT ON.REL
:46. GET POLY ATT.REL
:47. GET POLY LIM.REL
:48. GET POLY SIZ.REL
:49. GET PREVIOUS.REL
:50. GET REAL.REL
:51. GET REAL REC.REL
:52. GET REC.REL
:53. GET SEGMENT.REL
:54. GET STYLE.REL
:55. GET TEXT ATT.REL
:56. GET TEXT BOX.REL
:57. GET TEXT DAT.REL
:58. GET TEXT LIM.REL
:59. GET TEXT LIN.REL
:60. GET TRGT TAB.REL
:61. GET TYPE.REL
:62. CHOME.REL
:63. GLOB SPACE.REL
:64. GRID CONTROL.REL
:65. GRID SPACING.REL
:66. GROUP EDIT I.REL
:67. GROUP MODE.REL
:68. HILITE.REL
:69. HSL TO RGB.REL
:70. IMODE.REL
:71. IMODE2.REL
:72. INITA.REL
:73. INITD.REL
:74. INIT DATA.REL
:75. INIT DISPLAY.REL
:76. INIT WS DATA.REL
:77. INSERT.REL
:78. INSERT DRWG.REL
:79. INSERT SPACE.REL
:80. INSIDE WINDO.REL
:81. IN ALPHA.REL
:82. IN MENU.REL
:83. JEDIT.REL
:84. JEDOP.REL
:85. JINPUT.REL
:86. JWRTL.REL
:87. JWRTM.REL
:88. JWRTIP.REL
:89. JWRTIS.REL
:90. K11776SDF CDS.REL
:91. K4222NTB CDS.REL
:92. K6141PAG CDS.REL
:93. KEYBOARD INP.REL
:94. KURV1.REL
:95. EDIT STYLE T.REL
:96. EDIT TEXT AT.REL
:97. EXEC PROG.REL
:98. EXPAND WINDO.REL
:99. FIND GROUP.REL

Operating System..... RTE-A/VC+
Language(s)..... FTN7X
Keywords.....
1. Graphics
2. Figures
3. Plotting

External Support Req'd...
If Re-submission, Reason... New version with additional features
Contributor's Name..... Philip Walden
Company..... Hewlett-Packard
Street..... 11000 Wolfe Road
M/S 42UM
City..... Cupertino
State..... CA
Country..... USA
Zip Code..... 95014
Phone Number..... (408) 257-7000
Program Abstract..... See abstract in part 1 of this contribution
Additional Documentation..... MANUAL.1000

```


SKETCH REV. 5.1 (PART 7 OF 9)

```

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 7 of 9)
File Names.....: 000. Rename Transfer File
                  : 01. SKETCH7.SBMT
                  : 02. MAIN.REL
                  : 03. MASH.REL
                  : 04. MASH MACRO.REL
                  : 05. MATRIX MULT.REL
                  : 06. MENUFUNC.REL
                  : 07. MERGE.REL
                  : 08. MERGE DRWG.REL
                  : 09. METHEUS FIX.REL
                  : 10. MIN MAX.REL
                  : 11. MOVE.REL
                  : 12. MOVE KNOTS.REL
                  : 13. MOVE NODE.REL
                  : 14. NEAREST TO.REL
                  : 15. OPEN CONSTRU.REL
                  : 16. OPEN CURVE N.REL
                  : 17. OPEN CURVE R.REL
                  : 18. OPEN DRWG FI.REL
                  : 19. OPEN PICK AR.REL
                  : 20. OPEN POLY NO.REL
                  : 21. OPEN TEXT NO.REL
                  : 22. PAN.REL
                  : 23. PICK SEGMENT.REL
                  : 24. POLAR MINMAX.REL
                  : 25. POLYGON MODE.REL
                  : 26. POLYSET MODE.REL
                  : 27. POP STACK.REL
                  : 28. PSTYLE TABLE.REL
                  : 29. PURGE.REL
                  : 30. PURGE ALL SE.REL
                  : 31. PURGE CONSTR.REL
                  : 32. PURGE GEN AT.REL
                  : 33. PURGE GRID.REL
                  : 34. PURGE NODE.REL
                  : 35. PURGE POLY A.REL
                  : 36. PURGE SEG.REL
                  : 37. PURGE STACK.REL
                  : 38. PURGE TABLE.REL
                  : 39. PURGE TEXT A.REL
                  : 40. PUSH STACK.REL
                  : 41. READ DATA.REL
                  : 42. READ DRWG.REL
                  : 43. READ DRWG NA.REL
                  : 44. READ GROUP.REL
                  : 45. READ INT.REL
                  : 46. READ INT DAT.REL
                  : 47. READ ITEM.REL
                  : 48. REALTODECIMA.REL
                  : 49. RECALCULATE.REL
                  : 50. RECALC ALL L.REL
                  : 51. RECALC ATTRI.REL
                  : 52. RECALC TEXT.REL
                  : 53. REFRESH ATTR.REL
                  : 54. REFRESH COLO.REL
                  : 55. REFRESH CURV.REL
                  : 56. REFRESH DISP.REL
                  : 57. REFRESH GEN.REL
                  : 58. REFRESH POLY.REL
                  : 59. REFRESH STYL.REL
                  : 60. REFRESH TEXT.REL
                  : 61. REPLACE DRWG.REL
                  : 62. RES.REL
                  : 63. RESET WINDOW.REL
                  : 64. RGB TO HSL.REL
                  : 65. ROTATE.REL
                  : 66. ROUND.REL
                  : 67. SAVE ARC.REL
                  : 68. SAVE CURVE A.REL
                  : 69. SAVE HILITES.REL
                  : 70. SAVE IN UNCH.REL
                  : 71. SAVE LINE.REL
                  : 72. SAVE MARKER.REL
                  : 73. SAVE POLY AT.REL
                  : 74. SAVE SEG.REL
                  : 75. SAVE TEXT AT.REL
                  : 76. SAVE TEXT LI.REL
                  : 77. SCHED PLOT.REL
                  : 78. SCREEN READ.REL
                  : 79. SCREEN VIS.REL
                  : 80. SDINT.REL
                  : 81. SEDEV.REL
                  : 82. SEGMENT EXIS.REL
                  : 83. SET ALPHA LO.REL
                  : 84. SET DDDF.REL
                  : 85. SET FONT.REL
                  : 86. SET FST POLY.REL
                  : 87. SET LIMITS.REL
                  : 88. SET POLY POS.REL
                  : 89. SET WINDOW.REL
                  : 90. SHOW.REL
                  : 91. SK1000.REL
                  : 92. SK2ARCHIVE.REL
                  : 93. SKIP POLY RE.REL
                  : 94. KURVZ.REL
                  : 95. KURVP1.REL
                  : 96. KURVP2.REL
                  : 97. LINE MODE.REL
                  : 98. LOAD COLOR T.REL
                  : 99. LOAD STYLE T.REL

Operating System.....: RTE-4/VC+
Language(s).....: FTN7X
Keywords.....: 1. Graphics
               : 2. Figures
               : 3. Plotting

External Support Req'd...:
If Re-submission, Reason.: New version with additional features
Contributor's Name.....: Philip Walden

```

Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
 : M/S 42UM
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Program Abstract.....: See abstract in part 1 of this contribution
Additional Documentation....: MANUAL.1000

SKETCH

M085

SKETCH REV. 5.1 (PART 8 OF 9)

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 8 of 9)
File Names.....:000. Rename Transfer File
 :01. SKETCHS.SBMT
 :02. FERMD.REL
 :03. TEXT LEN.REL
 :04. TEXT MODE.REL
 :05. TOGGLE ALTER.REL
 :06. TOGGLE APICK.REL
 :07. TOGGLE DIGIT.REL
 :08. TOGGLE FAST.REL
 :09. TOGGLE FST P.REL
 :10. TOGGLE GRID.REL
 :11. TOGGLE KEYBO.REL
 :12. TOGGLE PICK.REL
 :13. TOGGLE SNAP.REL
 :14. TRANSFORM AR.REL
 :15. TRANSFORM CU.REL
 :16. TRANSFORM LI.REL
 :17. TRANSFORM OB.REL
 :18. TRANSFORM PO.REL
 :19. TRANSFORM SE.REL
 :20. TRANSFORM TE.REL
 :21. UNIOPATH.REL
 :22. UNPURGE.REL
 :23. UPD ARC DATA.REL
 :24. UPD COLOR.REL
 :25. UPD COLOR MO.REL
 :26. UPD DRWG LIM.REL
 :27. UPD DRWG NAM.REL
 :28. UPD EXTENT.REL
 :29. UPD FLAGS.REL
 :30. UPD GEN ATTR.REL
 :31. UPD INT.REL
 :32. UPD INT REC.REL
 :33. UPD LINE DAT.REL
 :34. UPD LOCP.REL
 :35. UPD MACRO LI.REL
 :36. UPD MODEL MA.REL
 :37. UPD NEXT.REL
 :38. UPD NO POLYG.REL
 :39. UPD NO TEXT.REL
 :40. UPD POINT TO.REL
 :41. UPD POLY ATT.REL
 :42. UPD PREVIOUS.REL
 :43. UPD PT TO CU.REL
 :44. UPD REAL.REL
 :45. UPD REAL REC.REL
 :46. UPD REC.REL
 :47. UPD STYLE.REL
 :48. UPD TEXT ATT.REL
 :49. UPD TEXT DAT.REL
 :50. UPD WSP C TB.REL
 :51. UPD WSP S TB.REL
 :52. UPSHFT.REL
 :53. WRITE DATA.REL
 :54. WRITE DRWG.REL
 :55. WRITE INT.REL
 :56. WRITE INT DA.REL
 :57. XFORM.REL
 :58. XFORM CURVE.REL
 :59. XFORM POLY L.REL
 :60. YES NO.REL
 :61. YES NO QUIT.REL
 :62. ARCHIVE2SK.LOD
 :63. BFTSK.LOD
 :64. BSTSK.LOD
 :65. SK.LOD
 :66. SK2ARCHIVE.LOD
 :67. SKPLOT.LOD
 :68. SKWSP12065.LOD
 :69. SKWSP2393.LOD
 :70. SKWSP2397.LOD
 :71. SKWSP2563.LOD
 :72. SKWSP2623.LOD
 :73. SKWSP2627.LOD
 :74. SKWSP2628.LOD
 :75. SKWSP2648.LOD
 :76. SKWSP7470.LOD
 :77. SKWSP7475.LOD
 :78. SKWSP7550.LOD
 :79. SKWSP7580.LOD
 :80. SKWSP7585.LOD
 :81. AGP
 :82. ARCHIVE2SK
 :83. ATTR
 :84. BUFFR
 :85. CURVE
 :86. DATAS
 :87. DATAS
 :88. DRWG
 :89. DTYPE
 :90. ECHO
 :91. FLAGS
 :92. FONTS
 :93. SKIP READ.REL
 :94. SKPLU.REL
 :95. SLEN.REL
 :96. SMAXV.REL
 :97. SNAP.REL

```

:98. SPSUB.REL
:99. STRETCH.REL
Operating System.....: RTE-A/VCF+
Language(s).....: FTN7X
Keywords.....: 1. Graphics
: 2. Figures
: 3. Plotting
External Support Req'd...:
If Re-submission, Reason.: New version with additional features
Contributor's Name.....: Philip Walden
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
: M/S 42UM
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Program Abstract.....: See abstract in part 1 of this contribution
Additional Documentation...: MANUAL.1000

```

SKETCH

M086

SKETCH REV. 5.1 (PART 9 OF 9)

```

Contribution Name.....: SKETCH
Title.....: SKETCH REV. 5.1 (part 9 of 9)
File Names.....: 00. Rename Transfer File
: 01. SKETCH9.SBMT
: 02. ECHO
: 03. FUNC
: 04. LINE
: 05. MACRO
: 06. MARKER
: 07. NODE
: 08. POLY
: 09. ROOT
: 10. TEXT
: 11. TYPES
: 12. VERSION
: 13. INSR
: 14. MENU
: 15. SCREE
: 16. SITE
: 17. UNPRG
: 18. WSDAT
: 19. ARC
: 20. CURVE
: 21. DRAW POLYGON.FTN
: 22. INIT DATA.FTN
: 23. SAVE SEG.FTN
: 24. ADD POLY NOD.REL
: 25. FONT LEN FAC.REL
: 26. LOCATE POINT.REL
: 27. SYSTEM MODE.REL
Operating System.....: RTE-A/VCF
Language(s).....: FTN7X
Keywords.....: 1. Graphics
: 2. Figures
: 3. Plotting
External Support Req'd...:
If Re-submission, Reason.: New version with additional features
Contributor's Name.....: Philip Walden
Company.....: Hewlett-Packard
Street.....: 11000 Wolfe Road
: M/S 42UM
City.....: Cupertino
State.....: CA
Country.....: USA
Zip Code.....: 95014
Phone Number...: (408) 257-7000
Program Abstract.....: See abstract in part 1 of this contribution
Additional Documentation...: MANUAL.1000

```

DIM3P

M087

3D DEVICE INDEPENDENT GRAPHIC PROGRAM

```

Contribution Name.....: DIM3P
Title.....: 3D device independent graphic program
File Names.....: 00. Rename Transfer File
: 01. DIM3P.SBMT submit file
: 02. DIM3P.FTN program GRAF3 reads &
: transforms data, starts
: DIM3P by exec-call
: 03. GRAF3.FTN
: 04. GRAF3.REL
: 05. GRAF3.LOD
: 06. DESRS.FTN plotting program
: 07. DESRS.REL
: 08. DESRS.LOD
: 09. DIM3P.DOC
: 10. DIM3P.REL
: 11. DIM3P.JOB job file
: 12. DIM3P.LOD loadr file
: 13. DIM3P.MAKE make file
: 14. DIM3P.UGLY
Operating System.....: RTE-IV
Language(s).....: Fortran-IV
Keywords.....: 1. Graphics
External Support Req'd...: A device plotter library- not supplied
If Re-submission, Reason.:
Contributor's Name.....: R.De Langhe
Company.....: RUCA
Street.....: Elisabethlaan 154 bus 4
City.....: Antwerp (Berchem)
State.....:
Country.....: Belgium
Zip Code.....: 2600
Phone Number...:
Program Abstract.....:

```

DIM3P is a simple, strongly device independent graphic program, imaging 3D objects defined by polygons. Hidden lines are eliminated, perspective can be applied. DIM3P raises the common requirement of most 3D graphic programs for convex polygons, and thus allows defining bodies with holes, complex edges etc.

Apart from object's data, a memory space of around 15 pages is required to run the program DIM3P, eventually using Extended Memory Access. The transformation program requires 14 pages, the optional plotting program 8 pages.

The design is done in 3 steps: first all points must be transformed according to given eyepoint, rotations, perspective etc. This must be done prior to hidden line elimination, to reduce processing time. The transformed data are transmitted to the visibility-testing program DIM3P, which produces a file with results (as small lines) to be plotted by some plotting program on any graphic device. This contribution includes the transforming and visibility testing programs, which are both fully compatible, and an example of a plotting program with a graphic library for a Calcomp plotter.

The form in which data must be presented to the programs, is very simple and permits editor-handling of the datafile(s). Its structure is described in detail in file \$ZCH3P.

The two programs (transformations and visibility) can be joined together in one single program to eliminate the data-transferring time between the two programs, but requires evidently more memory-space to run.

By a written request, a Pascal version of the (joined) program can be delivered.

MLVS

M088

MULTILEVEL SORT OF ASCII-FILE

Contribution Name.....: MLVS
 Title.....: Multilevel Sort of ASCII-File
 File Names.....: 00. Rename Transfer File
 : 01. MLVS.SBMT
 : 02. MLVS.FTN
 : 03. MLVSIN.DAT
 : 04. MLVSOR.DAT
 : 05. MLVSOT.DAT
 Operating System(s).....: RTE-A, (RTE-Vib, HP-UX)
 Language(s).....: FORTRAN 77
 Keywords.....: 1. Sort
 : 2. Shell
 External Support Req'd....: no
 If Re-submission, Reason.:
 Contributor's Name.....: Ralf Poeppel
 Company.....: m+p Mahrenholtz + Partner
 Street.....: Freundallee 17
 City.....: Hannover
 State.....:
 Country.....: Federal Republic of Germany
 Zip Code.....: D 3000
 Phone Number...: (05 11) 81 80 54
 Telex.....:
 Contribution Abstract.....:
 Program for multilevel sorting of an ASCII-file with several sort items.
 Sort items are to be declared by number of starting and ending character
 of the item in the line. The sorting order can be choosen for every sort
 level. The program avoids recursion, so it doesn't eat up the stack.
 The sorting algorithm used is the Shell-sort published by Kernighan and
 Ritchie, which is nearly as fast as the Quicksort.
 Additional Documentation...: Kernighan, Ritchie: The C Programming
 Language, Prentice-Hall, Inc. 1977.

SFKEY

M089

KEYSET LOAD UTILITY

Contribution Name.....: SFKEY
 Title.....: Keyset load utility
 File Names.....: 00. Rename Transfer File
 : 01. SFKEY.SBMT
 : 02. SFKEY.DOC
 : 03. SFKEY.LOD
 : 04. SFKEY.FTN
 : 05. SFKEY.REL
 : 06. SFKEY.MAKE
 : 07. SF SUBR.FTN
 : 08. QM SUBR.MAC
 : 09. SF SUBR.REL
 : 10. QM SUBR.REL
 : 11. DEFINE CRTS.DAT
 : 12. NORMAL KEYS.DAT
 Operating System.....: RTE-A VC+
 Language(s).....: Ftn7x and Macro
 Keywords.....: 1. SOFTKEYS
 : 2. TERMINAL
 External Support Req'd....: -- none --
 If Re-submission, Reason.:
 Contributor's Name.....: Robert R. Miller
 Company.....: Martin Marietta
 Street.....: PO Box 29304
 City.....: New Orleans
 State.....: LA
 Country.....: US
 Zip Code.....: 70189
 Phone Number...: (504) 257 1129
 Telex.....:
 Contribution Abstract.....:
 Eliminates the need for multiple, functionally identical keyset
 files by using the terminal's model number to select records to
 output from a modified keyset file.
 Creation of the keyset file made easier by predefining some of
 the most often used escape code sequences.
 Additional Documentation...: See file SFKEY.DOC

HP 1000 MEF MEMORY ERASING PROGRAM

```

Contribution Name.....: HAKRI
Title.....: HP 1000 MEF MEMORY ERASING PROGRAM
File Names.....:00. Rename Transfer File
                  :01. HAKRI.SBMT
                  :02. HAKRI.MAC           Source
                  :03. HAKRI.REL
                  :04. HAKRI.LOD
                  :05. HAKRI.MANUAL.TXT   Full Documentation
                  :06. HAKRI.MAKE
Operating System(s).....: RTE-4B and RTE-6 VM
Language(s).....: Assembly
Keywords.....: 1. MANAGEMENT
                : 2. PURGE
                : 3. SCRATCH
                : 4. SECURITY
External Support Req'd...: None
If Re-submission, Reason.: --
Contributor's Name.....: Robert Reavis
Company.....: Litton Applied Technology
Street.....: 4747 Hellyer Avenue
Mail.....: Post Office Box 7012
City.....: San Jose
State.....: California
Country.....: USA
Zip Code.....: 95150-7012
Phone Number...: (408) 365-4566
TWX.....: 910-339-9271
Contribution Abstract.....:

```

A program to erase all CPU memory by overwriting with one and zero pairs three times, writing a specific pattern, and verifying the pattern is in memory. Determines size of physical memory at run time. Documentation supplied as part of the contribution. Public domain.

BATCH MODE DEBUGGING AID

```

Contribution Name.....: BUGOF
Title.....: Batch mode debugging aid
File Names.....:00. Rename Transfer File
                  :01. BUGOF.SBMT
                  :02. BUGOF           Source file
                  :03. ZBUGOF
Operating System(s).....: RTE-III and later
Language(s).....: Assembly
Keywords.....: 1. DEBUG
                : 2. BATCH
External Support Req'd...: None
If Re-submission, Reason.: --
Contributor's Name.....: Robert Reavis
Company.....: Warm Springs Computer Works
Street.....: 44840 Camellia Drive
City.....: Fremont
State.....: California
Country.....: USA
Zip Code.....: 94539-6525
Phone Number...: (415) 657-8421
Telex.....: --
Contribution Abstract.....:
On-line debugging is great when the program and environment allow
for it. This contribution is useful when data must be displayed
as the program continues to run at its normal speed and without
keyboard interaction. Calls to BUGOF can be inserted virtually
anywhere in a program source to display location and variable
data in several different formats.
Additional Documentation....:
Detailed documentation and calling sequences are contained in
the source file.

```

STARTUP PROGRAM FOR MEMORY BASED SYSTEMS

```

Contribution Name.....: MENU
Title.....: Startup program for memory based systems
File Names.....:00. Rename Transfer File
                  :01. STARTUP.SBMT
                  :02. STARTUP.FTN           Source
                  :03. STARTUP.REL         Relocatable
                  :04. STARTUP.LOD        Linkfile
                  :05. STARTUP.CMD        Linkfile
                  :06. MEM.SYS.BULD       Example for Build
Operating System(s).....: RTE-A Rev. 5000
Language(s).....: FTN7X
Keywords.....: 1. system
                : 2. boot-up
External Support Req'd...: none
If Re-submission, Reason.: none
Contributor's Name.....: Roland Dietiker
Company.....: Hewlett Packard
Street.....: Allmend 2
City.....: Widen
State.....:
Country.....: SWITZERLAND
Zip Code.....: 8967
Phone Number...: CH-057 312 111
Telex.....: 828 010
Telefax.....: CH-057 312 475

```

Program Abstract.....:
This program was designed as Startup program for memory based systems. The program tries to start the program WH and shows all of the installed programs. After that it starts the CI as the userinterface. If the user leave the CI with EX the Startup-program starts again WH and the CI program.

RUNGE-KUTTA DIFFERENTIAL EQ'N SOLVERS

```

Contribution Name.....: RK
Title.....: RUNGE-KUTTA DIFFERENTIAL EQ'N SOLVERS
File Names.....:00. Rename Transfer File
                  :01. RK.SBMT (submission file)
                  :02. RK.FTN (single prec. source)
                  :03. RKQ.IFTN (include files)
                  :04. RKD.IFTN { "" }
                  :05. RKEL.IFTN { "" }
                  :06. RKE4.IFTN { "" }
                  :07. RKEH.IFTN { "" }
                  :08. RK.REL (single prec. relocatable)
                  :09. SRK.LIB (single prec. library)
                  :10. RK.THLP (single prec. help file)
                  :11. RK.HLP (single prec. GENIX'ed help)
                  :12. DRK.FTN (double prec. source)
                  :13. DRKQ.IFTN (include files)
                  :14. DRKD.IFTN { "" }
                  :15. DRKEL.IFTN { "" }
                  :16. DRKE4.IFTN { "" }
                  :17. DRKEH.IFTN { "" }
                  :18. DRK.REL (double prec. relocatable)
                  :19. SDRK.LIB (double prec. library)
                  :20. DRK.THLP (double prec. help file)
                  :21. DRK.HLP (double prec. GENIX'ed help)
                  :22. &CPUTS (cpu time subr. for test prog)
                  :23. XCPUTS (relocatable of &CPUTS)

Operating System(s).....: RTE-6/VM, RTE-A
Language(s).....: Fortran 77
Keywords.....: 1. ENGINEERING
                : 2. FLOATING POINT
                : 3. MATHEMATICS
                : 4. PHYSICS
                : 5. PRECISION

External Support Req'd...: Vector Instruction Set, or software equiv.
If Re-submission, Reason.:
Contributor's Name.....: Stephen S. Kerr
Company.....: York University
Street.....: 4700 Keele Street
City.....: Downsview
Province.....: Ontario
Country.....: Canada
Postal code...: M3J 1P3
Phone Number...: (416) 736-2100 ext 3603 or 3834
Telex.....:
Contribution Abstract.....:
  
```

These Runge-Kutta differential equation solvers have been very useful in our research. They are by no means the only way to solve differential equations, but we have been impressed enough with their reliability and ease of use to employ them frequently.

The eighth to first order formulas coded in this package are those of Fehlberg (see below). We have not made extensive use of the lower order routines (4th and below), but occasionally they can succeed when the higher orders fail. Roundoff error detection for the lower orders is still being refined.

Additional Documentation....:

Fehlberg, Erwin, "Classical Fifth-, Sixth-, Seventh-, and Eighth-order Runge-Kutta Formulas with Step-size Control", NASA TR R-287, 1968.

Fehlberg, Erwin, "Low-Order Classical Runge-Kutta Formulas with Step-size Control and their Application to some Heat Transfer Problems", NASA TR R-315, July 1969.

Also, see help files and source listings.

RUNGE-KUTTA-NYSTROM DIFFERENTIAL EQ'N SOLVERS

```

Contribution Name.....: RKN
Title.....: RUNGE-KUTTA-NYSTROM DIFFERENTIAL EQ'N SOLVERS
File Names.....:00. Rename Transfer File
                  :01. RKN.SBMT (submission file)
                  :02. RKN.FTN (single prec. source)
                  :03. RKNQ.IFTN (include file)
                  :04. RKN.D.IFTN { "" }
                  :05. RKN.E.IFTN { "" }
                  :06. RKN.REL (single prec. relocatable)
                  :07. SRKN.LIB (single prec. library)
                  :08. RKN.THLP (single prec. help text)
                  :09. RKN.HLP (single prec. GENIX'ed help)
                  :10. DRKN.FTN (double prec. source)
                  :11. DRKNQ.IFTN (include file)
                  :12. DRKND.IFTN { "" }
                  :13. DRKNE.IFTN { "" }
                  :14. DRKN.REL (double prec. relocatable)
                  :15. SDRKN.LIB (double prec. library)
                  :16. DRKN.THLP (double prec. help text)
                  :17. DRKN.HLP (double prec. GENIX'ed help)

Operating System(s).....: RTE-6/VM, RTE-A
Language(s).....: Fortran 77
Keywords.....: 1. ENGINEERING
                : 2. MATHEMATICS

External Support Req'd...: Vector Instruction Set
If Re-submission, Reason.:
Contributor's Name.....: Stephen S. Kerr
Company.....: York University
Street.....: 4700 Keele Street
City.....: Downsview
Province.....: Ontario
Country.....: Canada
Zip Code.....: M3J 1P3
Phone Number...: (416) 736-2100 ext 3603 or 3834
  
```

Telex.....:
Contribution Abstract.....:

Runge-Kutta-Nyström formulas differ from Runge-Kutta formulas in that they are specially designed to solve second order systems in which the first order derivative is not present. They can solve such problems faster than Runge-Kutta formulas because they are smaller in size, and reduce the number of equations to solve by 50%. However, they can suffer from higher error because stepsize control is based on the position co-ordinates only, and not the velocity co-ordinates.

These formulas of eighth to fourth order are due to Fehlberg (see below). The features in these routines are essentially identical to those found with the Runge-Kutta routines in this CSL release.

Additional Documentation.....:

Fehlberg, Erwin, "Classical Eighth- and Lower-Order Runge-Kutta-Nyström Formulas with Stepsize Control for Special Second-Order Differential Equations", NASA TR R-381, March 1972.

Also, see help files and source listings.

COMPRESS

M095

ADAPTIVE LEMPEL-ZIV-WELCH FILE COMPRESSOR

Contribution Name.....: COMPRESS
Title.....: ADAPTIVE LEMPEL-ZIV-WELCH FILE COMPRESSOR
File Names.....: 00. Rename Transfer File
 : 01. COMPRESS SBMT (submission file)
 : 02. COMPRESS.FTN (compress source)
 : 03. UNCOMPRESS.FTN (uncompress source)
 : 04. COMPRESS.REL (compress relocatable)
 : 05. UNCOMPRESS.REL (uncompress relocatable)
 : 06. COMPRESS.HLP (compress help file)
Operating System(s).....: RTE-6/VM, RTE-A
Language(s).....: Fortran 77
Keywords.....: 1. ARCHIVE
 : 2. PACK
 : 3. STORAGE
 : 4. UNIX
External Support Req'd...: None
If Re-submission, Reason.:
Contributor's Name.....: Stephen S. Kerr
Company.....: York University
Street.....: 4700 Keele Street
City.....: Downsview
Province.....: Ontario
Country.....: Canada
Postal Code...: M3J 1P3
Phone Number...: (416) 736-2100 ext 3603 or 3834
Telex.....:
Contribution Abstract.....:

This is a handy pair of programs for compressing and uncompressing files containing a high degree of redundancy (i.e. repeated strings) so that they can remain on disc and take up less space. They may also be useful for reducing a file's size prior to transmitting it via long distance telephone lines, or storing it on tape. These routines get their names from the UNIX utilities that also use adaptive Ziv-Lempel coding. This method of coding has an excellent performance reputation, often compacting source, text and relocatable files by a factor of up to 2 or better.

This implementation uses 12 bit coding, as recommended by Welch (see paper cited below). It has been tested on RTE file types 3, 4 and 5. At present, it can not handle types 1, 2 or 6.

The speed and compression ratio depend on the file being compressed. Since the algorithm is adaptive, it helps if the first few hundred records are typical of the entire file. On an F-series machine, the COMPRESS.FTN source file was processed in about 30 seconds and was compressed to 53% of its original size. The ALIAS.FTN source file (a 2729 line file, elsewhere in this CSL rev.) compressed in 3.7 minutes to 61% of its original size.

The compression algorithm involves much table searching, and a hash table is used to speed it up. This might still be refined to improve compression speed. The uncompression algorithm, although more complicated, involves no searching and hence is faster.

Additional Documentation.....:

Welch, Terry A., "A Technique for High-Performance Data Compression", IEEE Computer, June 1984, pp 8-19.

Also, see source files.

SEARCH

M096

SEARCH FILES FOR GIVEN STRING

Contribution Name.....: SEARCH
Title.....: Search files for given string
File Names.....: 00. Rename Transfer File
 : 01. SEARCH.SBMT
 : 02. SEARCH.FTN
 : 03. SEARCH.REL
 : 04. SEARCH.HELP
Operating System(s).....: RTE-A and RTE-6
Language(s).....: Fortran
Keywords.....: 1. Filter
 : 2. Search
 : 3. Strings
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Stig Frosig
Company.....: Bang & Olufsen A/S
Street.....: Dept. 3350
City.....: DK 7600 Struer

State.....: Denmark
Country.....: Denmark
Zip Code.....: (+45)-7-851122 ext 2030
Phone Number...: (+45)-7-851122 ext 2030
Telex.....: Search in files defined by mask for given string
Contribution Abstract.....: and report the match on terminal.

DF

M097

DIRECTORY AND FILE INFORMATION

Contribution Name.....: DF
Title.....: Directory and File information
File Names.....: 00. Rename Transfer File
 : 01. DF.SBMT
 : 02. DF.CMD
 : 03. DF.DOC
 : 04. DF.FTN
 : 05. DF.HELP
 : 06. DF.LOD
 : 07. DFSUB.MAC
 : 08. DF DIR.INFO.FTN
 : 09. DF.END.MESG.FTN
 : 10. DF.EXTERNAL.INC
 : 11. DF.NEW.FTN
 : 12. DF.NEW.INC
 : 13. DF.OPTIONS.FTN
 : 14. DF.OUTPUT.FTN
 : 15. DF.PRINT.FTN
 : 16. DF.SORT.MAC
 : 17. RVAL.FTN
Operating System(s).....: RTE-A and RTE-6
Language(s).....: FORTRAN and MACRO
Keywords.....: 1. Files
 : 2. Directory
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Stig Frosig
Company.....: Bang & Olufsen A/S
Street.....: Dept. 3350
City.....: DK 7600 Struer
State.....:
Country.....: Denmark
Zip Code.....:
Phone Number...: (+45)-7-851122 ext 2030
Telex.....:
Contribution Abstract.....:
Utility to display file contents and many other things.
It can more or less replace DL.

TREE

M098

DISPLAY DIRECTORY TREE STRUCTURE

Contribution Name.....: Tree
Title.....: Display directory tree structure
File Names.....: 00. Rename Transfer File
 : 01. TREE.SBMT
 : 02. TREE.FTN
 : 03. TREE.REL
Operating System(s).....: RTE-A and RTE-6 with CI file system
Language(s).....: Fortran
Keywords.....: 1. Directory
 : 2. CI
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Stig Frosig
Company.....: Bang & Olufsen A/S
Street.....: Dept. 3350
City.....: DK 7600 Struer
State.....:
Country.....: Denmark
Zip Code.....:
Phone Number...: (+45)-7-851122 ext 2030
Telex.....:
Contribution Abstract.....:
Display directory structure on CI file system. Works also
on a RTE-6 system. Do not use CDS.

CLRBB

M099

CLEAR BACKUP BIT

Contribution Name.....: CLRBB
Title.....: Clear Backup bit
File Names.....: 00. Rename Transfer File
 : 01. CLRBB.SBMT
 : 02. CLRBB.FTN
 : 03. CLRBB.REL
Operating System(s).....: RTE-A
Language(s).....: FORTRAN
Keywords.....: 1. FILES
 : 2. BACKUP
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Stig Frosig
Company.....: Bang & Olufsen A/S
Street.....: Dept. 3350
City.....: DK 7600 Struer
State.....:
Country.....: Denmark
Zip Code.....:
Phone Number...: (+45)-7-851122 ext 2030
Telex.....:
Contribution Abstract.....:

CLRBB is a utility to clear back-up bits. Use with care because your files will no longer be backup. Useful if you load a copy of files on your system e.g. a CSL tape, and you do not want to back it up.

Additional Documentation....:

CLRBB can only be used by superuser.

Usage : CLRBB,mask

PRMON

M100

DISPLAY STATUS OF PROGRAM OVER SOME TIME

Contribution Name.....: PRMON
Title.....: Display status of program over some time
File Names.....:00. Rename Transfer File
 :01. PRMON.SBMT
 :02. PRMON.FTN
 :03. PRMON.REL
 :04. PRMON.LOD
 :05. FRPLS_SBIT.LIB
Operating System(s).....: RTE-A
Language(s).....: FORTRAN
Keywords.....: 1. Monitor
 : 2. Status
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Stig Frosig
 Company.....: Bang & Olufsen A/S
 Street.....: Dept. 3350
 City.....: DK 7600 Struer
 State.....:
 Country.....: Denmark
 Zip Code.....:
 Phone Number...: (+45)-7-851122 ext 2030
 Telex.....:
Contribution Abstract.....:

Sample the status of a given program in some time, and display the program status in that periode of time.

Additional Documentation....:

Usage:

RU,PRMON,Pname,Session,#run,Deltatime

Pname --> Program-name
Session --> Session number (0 = System session)
#run --> Number of cycles
Deltatime --> How often shall it run

SPOOL

M101

SETUP SPOOL LOG FILE ON RTE-A

Contribution Name.....: Spool
Title.....: Setup spool log file on RTE-A
File Names.....:00. Rename Transfer File
 :01. SPOOL.SBMT
 :02. SPOOL.FTN
 :03. SPOOL.REL
Operating System(s).....: RTE-A only
Language(s).....: Fortran
Keywords.....: 1. Spooling
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Stig Frosig
 Company.....: Bang & Olufsen A/S
 Street.....: Dept. 3350
 City.....: DK 7600 Struer
 State.....:
 Country.....: Denmark
 Zip Code.....:
 Phone Number...: (+45)-7-851122 ext 2030
 Telex.....:
Contribution Abstract.....:

Setup logging on RTE-A system, with a log file on /SPOOL/ with name LOGyymmdd_tmm.LOG .

Additional Documentation....: See source

UPROJ

M102

PROJECT REPORTER

Contribution Name.....: UPROJ
Title.....: PROJECT REPORTER
File Names.....:00. Rename transfer file
 :01. UPROJ.SBMT
 :02. UPROJ.FTN
 :03. UPROJ.REL
 :04. UPROJ.DOC
 :05. UPROJ.LOD
 :06. UPROJ.MAKE
Operating System(s).....: RTE4B
Language(s).....: FORTRAN 4X
Keywords.....: 1. REPORTS
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: TERESA WYNNE
 Company.....: TRINITY FORGE INC.
 Street.....: 947 TRINITY DRIVE

City.....: MANSFIELD
State.....: TEXAS
Country....: USA
Zip Code...: 76063
Phone Number...: (817) 473-1515
Telex.....:

Contribution Abstract.....:
This program is useful when one is attempting to figure out how time at work is spent. It uses codes defined by the user to produce headings and detail for each project. It also calculates the total hours spent on each project and the total hours worked for the defined time period.

Additional Documentation....: UPROJ.DOC

PRINTS

M103

CONTENTS OF A TERMINAL SCREEN TO LINE PRINTER

Contribution Name.....: PRINTS
Title.....: Contents of a terminal screen to line printer
File Names.....: 00. Rename Transfer File
 : 01. prints.sbmt
 : 02. prints.ftn
 : 03. prints.rel
 : 04. prints.lod
 : 05. prints.help
Operating System.....: RTE-A, RTE-6
Uses hierarchical files?: n/a
Language(s).....: Fortran
Keywords.....: 1. printer
 : 2. terminal
External Support Req'd...:
If Re-submission, Reason.: added optional output LU
Contributor's Name.....: Thomas E. Goff
Company.....: NASA / Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Telex.....:
Contribution Abstract.....: This program transfers the contents of terminal memory to the line printer or other optional LU. Very useful when run from EDIT/1000 or obtaining hard copies of system errors.
Additional Documentation....: Prints.help

DVT

M104

GET DVT AND IFT INFORMATION

Contribution Name.....: DVT
Title.....: Get DVT and IFT information
File Names.....: 00. rename Transfer File
 : 01. dvt.sbmt
 : 02. dvt.ftn
 : 03. dvt.rel
 : 04. dvt.lod
 : 05. get dvt.mac
 : 06. get_dvt.rel
 : 07. bin.mac
 : 08. bin.rel
 : 09. dvt.help
Operating System.....: RTE-A
Uses hierarchical files?: n/a
Language(s).....: FTN77, MACRO
Keywords.....: 1. System
 : 2. System_tables
External Support Req'd...:
If Re-submission, Reason.: Added information and bit organization.
Originally contributed by Seppo Pietikainen,
HP Finland
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: This program will print the RTE-A DVT and IFT tables to the user terminal of other output device. It is very useful to I/O driver writers and to verify the default driver parameters from HP supplied drivers, especially those that are incorrect in the System Generation Manual.
Additional Documentation....: dvt.help

MAIL

M105

A MAILBOX - ELECTRONIC MAIL FACILITY

Contribution Name.....: MAIL
Title.....: A mailbox - electronic mail facility
File Names.....: 00. Rename Transfer File
 : 01. MAIL.SBMT
 : 02. ACK INCLUDE.FTN
 : 03. BUILD FILE.FTN
 : 04. BUILD FILE.REL
 : 05. CAT FILE.FTN
 : 06. CAT FILE.REL
 : 07. CHECKFORERROR.FTN
 : 08. CHECKFORERROR.REL
 : 09. CLASSFILE.HELP
 : 10. COPY FILE.FTN
 : 11. COPY FILE.REL
 : 12. CRLIB_CDS.COMD

```

:13. CRLIB NCDS.COMD
:14. DELETE.FTN
:15. DELETE.REL
:16. DELETE SHELL.FTN
:17. ENCRYPT.MAC
:18. ENCRYPT.REL
:19. FILLINOUTBOX.FTN
:20. FILLINOUTBOX.REL
:21. FIND_NUM.FTN
:22. FIND_NUM.REL
:23. GETKEY.FTN
:24. GETKEY.REL
:25. GIDTBL.MAC
:26. GIDTBL.REL
:27. HELP.FTN
:28. HELP.REL
:29. INOUT.FTN
:30. INOUT.REL
:31. INSTALL.COMD
:32. LASER.ALL.COMD
:33. LPARSE.DOC
:34. LPARSE.FTN
:35. LPARSE.HELP
:36. LPARSE.REL
:37. MAIL.FTN
:38. MAIL.LOD
:39. MAIL.MAP
:40. MAIL.NODS
:41. MAIL6.LOD
:42. MAILA.LOD
:43. MAILC1AB8C23754
:44. MAILE1DOFE26D61
:45. MAILGK.COMD
:46. MAILGK.LOD
:47. MAILLB_CDS.LIB
:48. MAILLB_CDS.MRG
:49. MAILLB_NCDS.LIB
:50. MAILLB_NCDS.MRG
:51. MAILM.MAP
:52. MAILM6.LOD
:53. MAILMA.LOD
:54. MAIL_CDS.REL
:55. NEW.FTN
:56. NEW.REL
:57. PRINTARCHIVE.FTN
:58. READ.FTN
:59. READDISTFILE.FTN
:60. README.ONE
:61. RUN.FTN
:62. SEND.FTN
:63. SUBJECT_PROMPT.FTN
:64. TELL_USER6.FTN
:65. TELL_USERA.FTN
:66. TO_PROMPT.FTN
:67. UIDSUB.MAC
:68. UPDATEMAIL.COMD

```

```

Operating System.....: RTE-A, RTE-6/VM
Uses hierarchical files?: yes
Language(s).....: FTN77, MACRO
Keywords.....: 1. mail
: 2. Mail
: 3. network

```

```

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568

```

Program Abstract.....: This is the interactive mail facility that was written by Ricky Young and Russ Butler at the HP Rockville office and has been disseminated in relocatable form to many users. This version has been enhanced to work in RTE-A rev 5.0 with the new formatter and a few other minor changes have been incorporated. Contributed with permission of the above authors.

The program maintains encoded mail letters, acknowledge files, and in/out baskets. Letters may be sent to individuals or groups of people, they may be saved in addition to being mailed, they can be sent urgently, and you may be prompted that mail is present at log-on time.

ERR

M106

AN ERROR REPORTING PROGRAM FOR MOST HP ERRORS

```

Contribution Name.....: ERR
Title.....: An error reporting program for most HP errors
File Names.....:00. Rename Transfer File
:01. err.sbmt
:02. err.ftn
:03. err.rel
:04. err.lod
:05. Flist.ftn
:06. Flist.rel
:07. Lparse.ftn
:08. Lparse.rel
:09. Lparse.doc
:10. err.help
:11. lparse.help
:12. errors.help
Operating System.....: RTE-A, etc
Uses hierarchical files?: yes
Language(s).....: Fortran 77
Keywords.....: 1. error
: 2. reports
: 3. help
External Support Req'd...: none
If Re-submission, Reason.: more error codes and more complete error
message searching
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623

```

City.....: Greenbelt
 State.....: Maryland
 Country....: USA
 Zip Code...: 20771
 Phone Number..: (301) 286-7568
 Telex.....:
 Contribution Abstract.....: This is an error decoding routine which will print an explanation of most HP error codes. The user enters up to four error key words or numbers, the program permutes these keys into 19 possible key words, then searches an error file for a match with up to 8 keys for each error message. This message is then displayed on the user terminal. The error file is presently applicable to RTE-A and RTE-6/VM. Errors and helpful hints are included for all the common HP errors and the not so easily found errors such as halt codes and VCP.
 Additional Documentation....: Err.help

M_DUPE

MAGNETIC TAPE DUPLICATOR

M107

Contribution Name.....: M DUPE
 Title.....: Magnetic tape duplicator
 File Names.....:00. Rename Transfer File
 :01. m_dupe.sbmt
 :02. m_dupe.ftn
 :03. m_dupe.rel
 :04. m_dupe.lod
 :05. lparse.ftn
 :06. lparse.rel
 :07. lparse.doc
 :08. lparse.help
 :09. m_dupe.help
 Operating System.....: RTE-X, RTE-6
 Language(s).....: Fortran 77
 Keywords.....: 1. magnetic_tape
 : 2. copy
 External Support Req'd...:
 If Re-submission, Reason.: A new user friendly and expanded version of my original MDUPE.
 Contributor's Name.....: Thomas E. Goff
 Company.....: NASA / Goddard Space Flight Center
 Street.....: Code 623
 City.....: Greenbelt
 State.....: Maryland
 Country....: USA
 Zip Code...: 20771
 Phone Number..: (301) 286-7568
 Telex.....:
 Contribution Abstract.....: Another magnetic tape duplicator. This is a program that we use many times daily to duplicate mag tapes with file limits, record limits, pre-positioning, error checking, and selective rewinding. An attempt to make the program user friendly is incorporated
 Additional Documentation....: M_Dupe.help



APPT

AN APPOINTMENT REMINDER PROGRAM

M108

Contribution Name.....: APPT
 Title.....: An appointment reminder program
 File Names.....:00. Rename Transfer File
 :01. appt.sbmt
 :02. appt.ftn
 :03. appt.rel
 :04. appt.lod
 :05. appt.bug
 :06. btach.ftn
 :07. btach.rel
 :08. btach.lod
 :09. lparse.ftn
 :10. lparse.rel
 :11. lparse.doc
 :12. appt.help
 :13. btach.help
 :14. lparse.help
 :15. appt.appt
 :16. valentine.pic
 :17. Happy New Year.pic
 Operating System.....: RTE-A
 Uses Hierarchical files?: yes
 Language(s).....: Fortran 77
 Keywords.....: 1. Calendar
 : 2. Date
 : 3. Time
 External Support Req'd...: none
 If Re-submission, Reason.: Added a time scheduling facility and allowed a user image to be accessed indirectly. Added the ability to display a "pretty" image if desired.
 Contributor's Name.....: Thomas E. Goff
 Company.....: NASA, Goddard Space Flight Center
 Street.....: Code 623
 City.....: Greenbelt
 State.....: Maryland
 Country....: USA
 Zip Code...: 20771
 Phone Number..: (301) 286-7568
 Telex.....:
 Contribution Abstract.....: This is a user non-friendly (intentionally) appointment reminder program. The user enters a file listing appointments to be reminded of and this program will produce the reminder at a user specified interval before the appointment. It will also continue to remind the user of important appointments at a selectable interval. If you allow others to have access to your appointment file, then this program can be used for meeting announcements.
 Additional Documentation....: Appt.help

```

Contribution Name.....: CALC
Title.....: A computerized calculator (rev 2815)
File Names.....:00. Rename Transfer File
                  :01. calc.sbmt
                  :02. calc.ftn      the actual calculator
                  :03. calc.rel
                  :04. calc.lod
                  :05. stretch.ftn  expand input string
                  :06. stretch.rel
                  :07. lparse.ftn   our logical parsing routine
                  :08. lparse.rel
                  :09. lparse.doc
                  :10. hex.mac      convert to hexadecimal format
                  :11. hex.rel
                  :12. mint.ftn    mathematical truncation (INT)
                  :13. mint.rel
                  :14. calc.help   on-line help file
                  :15. lparse.help on-line help file
                  :16. cns.cmd     multiple CN commands
Operating System.....: RTE-A, etc
Uses hierarchical files?: yes
Language(s).....: Fortran 77, Macro
Keywords.....: 1. Calculator
                2. CI
External Support Req'd...: none
If Re-submission, Reason.: Many enhancements: file reading/writing
capability, multiple equations, more error checking, CI command file
interaction, additional two function intrinsics, user selectable output
formats. Now including larger 32 bit numbers in hex, octal, and integer.
Useful for CI functions (see cns.cmd).
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Telex.....:
Contribution Abstract.....: This is a user friendly computerized calculator
using a normal equation format (not reverse polish). It has the ability
to save and use 8 user definable parameters, to utilize all Fortran
intrinsic, to perform number base conversion including hex and character
equivalents, to edit equations on the terminal screen, to read equations
from a disc file, and to write results to a disc file. Several user
selectable output formats are provided. It may also be used in CI command
files to perform branches, in addition to running other programs. An
extensive on-line help file is included.
Additional Documentation....: Calc.help

```

```

Contribution Name.....: F DUMP
Title.....: Multi-purpose file/tape dumping utility
File Names.....:00. Rename Transfer File
                  :01. f_dump.sbmt
                  :02. f_dump.ftn
                  :03. f_dump.rel
                  :04. lparse.ftn
                  :05. lparse.rel
                  :06. lparse.doc
                  :07. lparse.help
                  :08. hpint.ftn
                  :09. hpint.rel
                  :10. ftibm.mac
                  :11. ftibm.rel
                  :12. bin.mac
                  :13. bin.rel
                  :14. hex.mac
                  :15. hex.rel
                  :16. dec.mac
                  :17. dec.rel
                  :18. ebcdh.ftn
                  :19. ebcdh.rel
                  :20. ftdec.mac
                  :21. ftdec.rel
                  :22. hptst.mac
                  :23. hptst.rel
                  :24. f_dump.lod
                  :25. f_dump.help
Operating System.....: RTE-A
Uses hierarchical files?: yes
Language(s).....: FTN77, MACRO
Keywords.....: 1. dump
                2. files
External Support Req'd...:
If Re-submission, Reason.: Update to BTDMF
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: This program is used to dump (in great detail)
the contents of either a disc file or a magnetic tape. The dump can occur at
a user specified file and/or record. The output form of the dump can be in
any combination of hex, octal, binary, integer, ASCII, EBCDIC, byte swap,
Integer*2, Integer*4, HP real*4, HP real*8, IBM real*4, IBM real*8, DEC
real*4, DEC real*8, etc
Additional Documentation....: f_dump.help

```

```

Contribution Name.....: Term init
Title.....: A terminal soft key initialization program
File Names.....:00. Rename Transfer File
                  :01. Term_init.sbmt
                  :02. Term_init.ftn
                  :03. Term_init.rel
                  :04. Term_init.lod
                  :05. Term_init.help
Operating System.....: RTE-A
Uses hierarchical files?: n/a
Language(s).....: FTN77
Keywords.....: 1. softkeys
                2. terminal
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: This program is used to set the soft keys
and tabs on HP terminals to default values useful for EDIT/1000 and FORTRAN.
It is smart enough to program old terminals in the 264x series as well as the
newer 262x, 239x, and 700/ series.
Additional Documentation....: term_init.help

```

```

Contribution Name.....: COPY
Title.....: File/tape copying with blocking & conversion
File Names.....:00. Rename Transfer File
                  :01. copy.sbmt
                  :02. copy.ftn
                  :03. copy.rel
                  :04. copy.lod
                  :05. ebcdh.ftn
                  :06. ebcdh.rel
                  :07. lparse.ftn
                  :08. lparse.rel
                  :09. lparse.doc
                  :10. lparse.help
                  :11. copy.help
Operating System.....: RTE-A
Uses hierarchical files?:
Language(s).....: FTN77, MACRO
Keywords.....: 1. copy
                2. magnetic_tape
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: The intent of this program is to provide a
method of blocking and/or deblocking records to/from a file and/or mag tapes.
This allows the separation and concatenation of logical records contained
in either a disc file or on magnetic tape to be separated or combined into
physical records in either a disc file or magnetic tape. Versatility is
allowed by accepting EDIT/1000 variable length record files, then fixing
and blocking these logical records onto mag tape records, primarily for
other computer systems. At the same time, the input records can be changed
from a binary to ASCII form or visa versa. The program is currently used
for blocking/deblocking purposes, but additional work will be performed in
the future for added conversion facilities. Updates will follow!
Additional Documentation....: copy.help

```

```

Contribution Name.....: IOP
Title.....: fancy CI IO command
File Names.....:00. Rename Transfer File
                  :01. iop.sbmt
                  :02. iop.ftn
                  :03. iop.rel
                  :04. iop.lod
                  :05. iop.help
Operating System.....: RTE-A
Uses hierarchical files?:
Language(s).....:
Keywords.....: 1. I/O
                2. System
External Support Req'd...:
If Re-submission, Reason.: Updated version for D-mux and SPORT
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568

```

Program Abstract.....: Here is an alternative to the system program IO which gives much more information about the port that is connected to the LU or LU's specified in the run string. This is an update to Dan Feldman's original contribution.

Additional Documentation....: lop.help

PRT

M114

A FILE PRINTING FACILITY WITH ESCAPE CODES

Contribution Name.....: PRT
Title.....: A file printing facility with escape codes
File Names.....:00. Rename Transfer File
 :01. prt.sbmt
 :02. Soldprint.lib
 :03. prt.ftn
 :04. prt.rel
 :05. prt.lod
 :06. ffl.ftn
 :07. ffl.rel
 :08. oldp0.ftn
 :09. oldp0.rel
 :10. oldp0.lod
 :11. bin.mac
 :12. bin.rel
 :13. hex.mac
 :14. hex.rel
 :15. prt.help
 :16. oldp0.help
Operating System.....: RTE-A
Uses hierarchical files?: yes
Language(s).....: FTN77, MACRO
Keywords.....: 1. printer
 : 2. Formatting
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: This program is a very much modified version of the first release of HP's PRINT program. This program gives more flexibility in the form of the printout by searching for escape codes in the original file and turning on display functions on the output device to print all characters - not just the normal ASCII ones. In addition, the output form may be specified as hex, octal, etc; and may be directed to any LU with several options such as on/off line numbering and on/off titles. If you want file masking, use the new HP utility PRINT.
Additional Documentation....: prt.help

WHOLock

M115

WHO LOCKED THE LU'S

Contribution Name.....: WHOLock
Title.....: Who locked the LU's
File Names.....:00. Rename Transfer File
 :01. wholock.sbmt
 :02. wholock.ftn
 :03. wholock.rel
 :04. wholock.lod
 :05. lparse.ftn
 :06. lparse.rel
 :07. lparse.doc
 :08. lparse.help
 :09. wholock.help
Operating System.....: RTE-A
Uses hierarchical files?: n/a
Language(s).....: FTN77
Keywords.....: 1. System
 : 2. Reports
External Support Req'd...:
If Re-submission, Reason...: Updated and cleaner version of another CSL prgm
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: This little program tells you who the LU locker is on your computer. It is nice to have when your program won't run and WH says it is device suspended waiting for a LU unlock. This program tells you who the offender is.
Additional Documentation....: wholock.help

SET_TIME

M116

AUTOMATICALLY SET SYSTEM TIME FROM HAYES CLOCK

Contribution Name.....: SET TIME
Title.....: Automatically set system time from Hayes clock
File Names.....:00. Rename Transfer File
 :01. set_time.sbmt
 :02. set_time.ftn
 :03. set_time.rel
 :04. set_time.lod
 :05. lparse.ftn
 :06. lparse.rel
 :07. lparse.doc

```

:08. lparse.help
:09. set_time.help
Operating System.....: RTE-A
Uses hierarchical files?: yes
Language(s).....: FTN77
Keywords.....: 1. time
                2. System
External Support Req'd...: Hayes Chronograph
If Re-submission, Reason.:
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: A less expensive method for setting the RTE-A
system clock at boot-up time by using the Hayes Chronograph instead of the
HP external clock on HPIB. The program: Set Time allows the user to set the
Hayes chronograph from a user friendly dialog.
Additional Documentation...: /help/time and /help/set time. Execute the
program Time in your welcome file. The chronograph is interfaced to the
computer via the 12040 mux card (including the D-mux).

```

CHAR

M117

PRODUCE A CHARACTER SET DISPLAY

```

Contribution Name.....: CHAR
Title.....: produce a character set display
File Names.....:00. Rename Transfer File
                :01. char.sbmt
                :02. char.ftn
                :03. char.rel
                :04. char.lod
                :05. char.help
Operating System.....: RTE-A
Uses hierarchical files?: n/a
Language(s).....: FTN77
Keywords.....: 1. character
                2. terminal
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Thomas E. Goff
Company.....: NASA, Goddard Space Flight Center
Street.....: Code 623
City.....: Greenbelt
State.....: Maryland
Country.....: USA
Zip Code.....: 20771
Phone Number...: (301) 286-7568
Program Abstract.....: This program outputs all combinations of
characters to a specified output LD (default is your terminal) with
display functions on. It is useful for determining which characters are
displayable on any HP device. It is also handy for printing the current
character set on the LaserJet printer. It is quite informative to run
this program on various terminals to see the differences in their responses
to the same output characters.
Additional Documentation...: Even with display functions on, strange things
can happen - such as a <c/r> (carrage return) will produce a carrage return
but a line feed will not line feed. Several characters do nothing on a
terminal: not even a space holder. This is normal for a null character
but occurs for other characters depending upon the terminal type.
See also: char.help

```

GJOB

M200

VARIOUS PROGRAMS FROM DSD

```

Contribution Name.....: GJOB
Title.....: Various programs from DSD
File Names.....:00. Rename Transfer File
                :01. GJOB.sbmt
                :02. GJOB.DOC
                :03. CHECK.LST
                :04. #FORM
Operating System(s).....: RTE-6 and RTE-A
Language(s).....:
Keywords.....: 1. System
                2. Help
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....: The GJOB programs were contributed by
HP's Data Systems Division to INTEREX at the 1987 San Jose conference.
They consist of a collection of programs, not necessarily related,
written and used by the systems programmers working on the HP1000.
The GJOB submission contains some documentation relating to the collection
as a whole. Most individual submissions have their own documentation.
Sometimes this is a DOC file and sometimes you run the program, often
with a ? after it.
Some contributions require additional libraries. These libraries are
contributions following this one. The names are:
ANTLB,CCSC,CURSR,DB,SESS,TMLB,UTLB
Some contributions work only on RTE-6 or
RTE-A, but not both. Where possible, this has been noted.
The file CHECK.LST shows what was done to the contributions in assembling
this tape. After the original GJOB tape was distributed it was
discovered that some programs using masking still had the pre-rev 5.0
DCB size (356 words) and that has been corrected at CSL release 2830.

```



```

Contribution Name.....: GJOBLIB/CURSR
Title.....: GJOB Library (part 1 of 8)
File Names.....:00. Rename Transfer File
                  :01. cursr.sbmt
                  :02. CURSR.FTN
                  :03. CURSR.LIB
                  :04. CURSR.MAKE
                  :05. CURSR.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Library
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:
Contribution Abstract.....:
Some of the GJOB contributions require the use of this, or one of the
other, GJOB libraries.
Additional Documentation....: see Gjob.doc file

```

```

Contribution Name.....: GJOBLIB/UTLB
Title.....: GJOB Library (part 2 of 8)
File Names.....:00. Rename Transfer File
                  :01. utlb1.sbmt
                  :02. SCPLB
                  :03. %SUTLB
                  :04. %ALDSK
                  :05. %ASCII
                  :06. %BLKRD
                  :07. %CALC
                  :08. %CAPS
                  :09. %CHSUB
                  :10. %CLOSX
                  :11. %COMMA
                  :12. %CRNCK
                  :13. %DISP
                  :14. %DSET
                  :15. %DXEC
                  :16. %ERROR
                  :17. %FG.LU
                  :18. %FMER
                  :19. %FORCE
                  :20. %ICNVK
                  :21. %ICOMB
                  :22. %IFBRX
                  :23. %IFGLU
                  :24. %IMER
                  :25. %IOPSY
                  :26. %IOVRD
                  :27. %IREAD
                  :28. %ISCAN
                  :29. %ISFB
                  :30. %ISOLS
                  :31. %ISRCH
                  :32. %JULDT
                  :33. %LKWRD
                  :34. %LULOK
                  :35. %MAPUC
                  :36. %MOVBT
                  :37. %MOVW
                  :38. %MSCK
                  :39. %MYNAM
                  :40. %NAMCK
                  :41. %OPENX
                  :42. %OUTB
                  :43. %PARSS
                  :44. %PNAMR
                  :45. %RESET
                  :46. %RNAMR
                  :47. %RTPAR
                  :48. %RWND
                  :49. %SET
                  :50. %SPACE
                  :51. %SQUSH
                  :52. %SUBKY
                  :53. %XCNVK
                  :54. %SUTLB
                  :55. %ALDSK
                  :56. %ASCII
                  :57. %BLKRD
                  :58. %CALC
                  :59. %CAPS
                  :60. %CHSUB
                  :61. %CLOSX
                  :62. %CRNCK
                  :63. %DISP
                  :64. %DSET
                  :65. %DXEC
                  :66. %ERROR
                  :67. %FMER
                  :68. %FORCE
                  :69. %ICOMB
                  :70. %IFBRX
                  :71. %IFGLU
                  :72. %IMER
                  :73. %IOPSY
                  :74. %IOVRD

```

```

:75. &IREAD
:76. &ISCAN
:77. &ISFB
:78. &ISOL8
:79. &ISRCH
:80. &JULDT
:81. &LKWRD
:82. &LULOK
:83. &MOVBT
:84. &MOVW
:85. &MSCK
:86. &MYNAM
:87. &NAMCK
:88. &OPENX
:89. &OUTB
:90. &PARSS
:91. &PNAMR
:92. &RESET
:93. &RNAMR
:94. &RTPAR
:95. &SET
:96. &SPACE
:97. &SQUSH
:98. ISOL8.MAC
:99. ISOL8.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Library
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
Some of the GJOB contributions require the use of this, or one of the
other, GJOB libraries.
Additional Documentation....: see Gjob.doc file

```

GJOBLIB/UTLB

M203

GJOB LIBRARY (PART 3 OF 8)

```

Contribution Name.....: GJOBLIB/UTLB
Title.....: GJOB Library (part 3 of 8)
File Names.....: 00. Rename Transfer File
:01. utlb2.sbmt
:02. UTLB.LIB
:03. UTLB.MRG

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Library
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
Some of the GJOB contributions require the use of this, or one of the
other, GJOB libraries.
Additional Documentation....: see Gjob.doc file

```

GJOBLIB/TMLB

M204

GJOB LIBRARY (PART 4 OF 8)

```

Contribution Name.....: GJOBLIB/TMLB
Title.....: GJOB Library (part 4 of 8)
File Names.....: 00. Rename Transfer File
:01. tmlb.sbmt
:02. $TMLB
:03. $TMLB6
:04. $TMLBA
:05. $STM LB
:06. $ADTIM
:07. $APRNT
:08. $DATSC
:09. $FMER
:10. $ISOL8
:11. $ISRCH
:12. $JULDT
:13. $JULDY
:14. $MOVBT
:15. $PARSD
:16. $PARSP
:17. $XREAD
:18. $XSECDT
:19. $XERR
:20. $TMLB6
:21. $TMLBA
:22. $TMLBA2
:23. $TMLBX
:24. &$TMLB
:25. &$ADTIM
:26. &$APRNT
:27. &$DATSC
:28. &$FMER
:29. &$IGET1
:30. &$ISOL8
:31. &$ISRCH

```

```

:32. &JULDT
:33. &JULDY
:34. &MOVBT
:35. &PARSD
:36. &PARSF
:37. &OREAD
:38. &SECDT
:39. &TERR
:40. &TMLB6
:41. &TMLBA2
:42. &TMLBK
:43. IGET1.REL
:44. T.CMD
:45. TIMEDIFF.FTN
:46. TIMEDIFF.REL
:47. TIME.ROUTINES.TXT
:48. TMLB.LIB
:49. TMLB.MAKE
:50. TMLB.MRG
:51. TMLB6.MRG
:52. TMLBA.MRG

Operating System(s).....
Language(s).....
Keywords..... 1. Library
External Support Req'd...
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number...
Telex.....
Contribution Abstract.....
Some of the GJOB contributions require the use of this, or one of the
other, GJOB libraries.
Additional Documentation.... see Gjob.doc file

```

GJOBLIB/SESS

GJOB LIBRARY (PART 5 OF 8)

M205

```

Contribution Name..... GJOBLIB/SESS
Title..... GJOB Library (part 5 of 8)
File Names.....:00. Rename Transfer File
:01. sess.sbmt
:02. MAKEFILE
:03. SESS.MAC
:04. SESS.REL
:05. SESS6.LIB
:06. SESS6.MAC
:07. SESS6.MRG
:08. SESS6.REL
:09. SESSA.LIB
:10. SESSA.MAC
:11. SESSA.MRG
:12. SESSA.REL
:13. SESSCALLS.LST
:14. SESSCALLS.TXD
:15. SESSINFO.FTN
:16. SESSINFO.LOD
:17. SESSINFO.REL
:18. TEST.FTN
:19. TEST.LOD
:20. TEST.REL

Operating System(s).....
Language(s).....
Keywords..... 1. Library
External Support Req'd...
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number...
Telex.....
Contribution Abstract.....
Some of the GJOB contributions require the use of this, or one of the
other, GJOB libraries.
Additional Documentation.... see Gjob.doc file

```

GJOBLIB/DB

GJOB LIBRARY (PART 6 OF 8)

M206

```

Contribution Name..... GJOBLIB/DB
Title..... GJOB Library (part 6 of 8)
File Names.....:00. Rename Transfer File
:01. db.sbmt
:02. XDLIB2
:03. DBWLOCK.LIB

Operating System(s).....
Language(s).....
Keywords..... 1. Library
External Support Req'd...
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number...
Telex.....
Contribution Abstract.....

```

Some of the GJOB contributions require the use of this, or one of the other, GJOB libraries.
Additional Documentation....: see Gjob.doc file

GJOBLIB/CCSC

M207

GJOB LIBRARY (PART 7 OF 8)

Contribution Name.....: GJOBLIB/CCSC
Title.....: GJOB Library (part 7 of 8)
File Names.....:00. Rename Transfer File
 :01. ccs.sbmt
 :02. \$CCSC.LIB
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Library
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: David Boskey
 Company.....: CCS
 Street.....: 33 W. Main Street
 City.....: Holmdel
 State.....: New Jersey
 Country.....: USA
 Zip Code.....: 07733-3302
 Phone Number...: (201) 946-3800
 Telex.....: 642672 CCSHOLM
Contribution Abstract.....:
Some of the GJOB contributions require the use of this, or one of the other, GJOB libraries.
Additional Documentation....: see Gjob.doc file

GJOBLIB/ANTLB

M208

GJOB LIBRARY (PART 8 OF 8)

Contribution Name.....: GJOBLIB/ANTLB
Title.....: GJOB Library (part 8 of 8)
File Names.....:00. Rename Transfer File
 :01. antlb.sbmt
 :02. ANTFS.FTM
 :03. ANTFS.REL
 :04. ANTLB.LIB
 :05. ANTLB.MAC
 :06. ANTLB.MAKE
 :07. ANTLB.MRG
 :08. ANTLB.REL
 :09. COMPAREWORDS.MAC
 :10. COMPAREWORDS.REL
 :11. HPCRT.DOC
 :12. ZASCI.MAC
 :13. ZASCI.REL
 :14. ZDASC.MAC
 :15. ZDASC.REL
 :16. ZINVR.MAC
 :17. ZINVR.REL
 :18. ZUESC.MAC
 :19. ZUESC.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Library
External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Alan Tibbetts
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
Contribution Abstract.....:
Some of the GJOB contributions require the use of this, or one of the other, GJOB libraries.
Additional Documentation....: see Gjob.doc file

ACDA

M209

RTE-A CRASH DUMP ANALYZER

Contribution Name.....: ACDA
Title.....: RTE-A Crash Dump Analyzer
File Names.....:00. Rename Transfer File
 :01. acda.sbmt
 :02. ACDA.DBG
 :03. ACDA.DOC
 :04. ACDA.LOD
 :05. ACDA.MAP
 :06. ACDA.REL
Operating System(s).....:
Language(s).....: Pascal
Keywords.....: 1. Analyzer
 : 2. Dump
 : 3. System
External Support Req'd...: Pascal_CDS.lib
If Re-submission, Reason...:
Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
Contribution Abstract.....:
The crash dump analyzer for RTE-A. This program, which has a CMMMA style

user interface, does a post-mortem on the dump of a crashed system. An essential tool for the system integrators toolkit. Requires Pascal_CDS.lib rev. 5.0 to load properly.
This contribution was provided by HP with no source code.

ACODE

AREA CODE

M210

Contribution Name.....: ACODE
Title.....: Area Code
File Names.....:00. Rename Transfer File
 :01. acode.sbmt
 :02. ACODE.FTN
 :03. ACODE.LOD
 :04. ACODE.MAKE
 :05. ACODE.REL
 :06. PCODE.FTN
 :07. PCODE.REL
 :08. ZONE.FTN
 :09. ZONE.REL
 :10. ZOTBL.MAC
 :11. ZOTBL.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Geodesy
 : 2. Mail

External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:
Contribution Abstract.....:
Given an Area Code, this program will reveal the geographic location as well as the time difference. Based on California (PST) as the local time reference. Time for local is drawn from the system. If used in other time zones, source will need to be modified.

ALARM

COMPUTERIZED ALARM CLOCK

M211

Contribution Name.....: ALARM
Title.....: Computerized Alarm Clock
File Names.....:00. Rename Transfer File
 :01. alarm.sbmt
 :02. ALARM.DBG
 :03. ALARM.FTN
 :04. ALARM.LOD
 :05. ALARM.MAKE
 :06. ALARM.REL
 :07. ALARM.REMOTE.LOD
 :08. BUGS
 :09. FREELU.TXT
 :10. STARTUP.REMOTE.CMD
 :11. TIMER.DBG
 :12. TIMER.DOC
 :13. TIMER.FTN
 :14. TIMER.LOD
 :15. TIMER.REL
 :16. TIMER.CONFIG.INC
 :17. TIMER.INSTALL
 :18. TIMER.REMOTE.LOD
 :19. TPRINT.FTN
 :20. TPRINT.REL
 :21. USERS

Operating System(s).....: RTE-6
Language(s).....:
Keywords.....: 1. Interrupt
 : 2. Scheduling
 : 3. Mail

External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:
Contribution Abstract.....:
A multiple set-point full function computerized alarm clock for RTE users. This one will write the messages to your screen in a non-destructive manner, even if you are in an EDIT 1000 screen. Works on local or with remote DS systems. Read file timer install for installation procedures.
This program is for RTE-5 systems.

ANNIV

ANNIVERSARIES

M212

Contribution Name.....: ANNIV
Title.....: Anniversaries
File Names.....:00. Rename Transfer File
 :01. anniv.sbmt
 :02. ANNIV.DAT
 :03. ANNIV.FTN
 :04. ANNIV.HLP
 :05. ANNIV.LOD
 :06. ANNIV.MAKE

```

:07. ANNIV.REL
:08. ANNIVERSARY
Operating System(s).....
Language(s).....
Keywords.....
1. Date
2. Calendar
3. Time
External Support Req'd....
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number.....
Telex.....
Contribution Abstract.....
Anniversary reminder program. The dates come from a file of important
events that you wish to be reminded (warned?) about.

```

CALLS

M213

HELP FILE FOR SUBROUTINE CALLS

```

Contribution Name..... CALLS
Title..... Help file for subroutine calls
File Names.....:00. Rename Transfer File
:01. calls.sbmt
:02. BASE RTE CALLS.TXT
:03. CALLM.DBC
:04. CALLM.FTN
:05. CALLM.LOD
:06. CALLM.REL
:07. CALLS.DBC
:08. CALLS.FTN
:09. CALLS.LOD
:10. CALLS.MAKE
:11. CALLS.REL
:12. COMMENTLINE.MAC
:13. COMMENTLINE.REL
:14. FMPR.COMMANDS.TXT
:15. FMP.CALLS.TXT
:16. HPCRT.CALL
:17. INSERT.MAC
:18. INSERT.REL
:19. OTHER RTE CALLS.TXT
:20. RTE.CMRG
:21. VIS_CALLS.TXT

Operating System(s).....
Language(s).....
Keywords.....
1. Help
2. Documentation
External Support Req'd....
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number.....
Telex.....
Contribution Abstract.....
This program accesses a database that explains how to call the various HP
subroutines. Think of it as an on-line version of the RTE quick reference
guide (using the supplied data files). Easily extended by the user to become
an on-line help for any subject. Contains CALLM, which extracts the help
blocks used by CALLS from comments within source files. Allows you to
write the documentation into the source, right where it belongs.
Requires HPCRT.LIB (rev. 5.0) to load properly.

```

CFILES

M214

COMPARE FILES

```

Contribution Name..... CFILES
Title..... Compare files
File Names.....:00. Rename Transfer File
:01. cfiles.sbmt
:02. CFILES.FTN
:03. CFILES.LOD
:04. CFILES.MAKE
:05. CFILES.REL

Operating System(s).....
Language(s).....
Keywords.....
1. Compare
2. Files
External Support Req'd....
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number.....
Telex.....
Contribution Abstract.....
Compare files under two directory trees. RU,CFILES for help.

```

```

Contribution Name.....: CHNAM
Title.....: Fix debug files
File Names.....:00. Rename Transfer File
                :01. chnam.sbmt
                :02. CHNAM.FTN
                :03. CHNAM.HLP
                :04. CHNAM.LOD
                :05. CHNAM.MAKE
                :06. CHNAM.REL

Operating System(s).....
Language(s).....
Keywords.....: 1. Debug
                : 2. Relocatable

External Support Req'd...
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....
Telex.....

Contribution Abstract.....
Changes the Debug source file descriptors in the relocatables so that when
files are moved it is not necessary to re-compile all the routines just for
debugging. RU,CHNAM for help.

```

```

Contribution Name.....: CMMA
Title.....: CMMA System Analyzer
File Names.....:00. Rename Transfer File
                :01. cmma.sbmt
                :02. CMMA.FTN
                :03. CMMA.LOD
                :04. CMMA.MAKE
                :05. CMMA.REL
                :06. CSCUP.MAC
                :07. CSCUP.REL
                :08. GETCH.REL
                :09. IGETA.MAC
                :10. IGETA.REL
                :11. INVRS.REL
                :12. STACK.REL

Operating System(s).....: RTE-A
Language(s).....
Keywords.....: 1. System
                : 2. Analyzer
                : 3. System_tables

External Support Req'd...
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....
Telex.....

Contribution Abstract.....
The traditional CMMA program, only updated so that it is transportable.
Requires a force load if you do not have BIGDS.LIB. (missing source files
for STACK and INVRS).

```

```

Contribution Name.....: CMPND
Title.....: Compress/Expand ASCII files
File Names.....:00. Rename Transfer File
                :01. cmpnd.sbmt
                :02. CMPND.DBC
                :03. CMPND.FTN
                :04. CMPND.LOD
                :05. CMPND.MAKE
                :06. CMPND.REL

Operating System(s).....
Language(s).....
Keywords.....: 1. Pack
                : 2. File_transfer

External Support Req'd...
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....
Telex.....

Contribution Abstract.....
Compress/Expand ascii files by the run length encoding method. This utility
can compress typical source files by 30% or so.
This program needs the 5.0 rev. of HPCRT.LIB.

```

LIST LONG FILE NAMES

```

Contribution Name.....: DLONG
Title.....: List long file names
File Names.....:00. Rename Transfer File
                  :01. dlong.sbmt
                  :02. DLONG.DOC
                  :03. DLONG.FTN
                  :04. DLONG.LOD
                  :05. DLONG.MAKE
                  :06. DLONG.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Filter
                2. List

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:

Contribution Abstract.....:
This program creates a list of full file names, one per line, that match
a file mask. It is useful when creating command files to do things to
a list of files. Somewhat like the old QDL would do, including file type,
size, etc.

```



DEBUG INFORMATION EXTRACTION INTERFACE

```

Contribution Name.....: DXI
Title.....: Debug Information Extraction Interface
File Names.....:00. Rename Transfer File
                  :01. dxi.sbmt
                  :02. BOOLEANS.FTNI
                  :03. DXI.DOC
                  :04. DXI.MAKE
                  :05. DXIDATA.FTN
                  :06. DXIDATA.REL
                  :07. DXILAND.FTN
                  :08. DXILAND.LIB
                  :09. DXILAND.REL
                  :10. EE.FTN
                  :11. EE.LOD
                  :12. EE.REL
                  :13. EEMSGS.R000
                  :14. EEMSGS.S000
                  :15. MEM.FTNI
                  :16. SYMBOLTABLE.FTNI
                  :17. SYMBOLTABLEDEF.FTNI
                  :18. TOKENS.FTNI
                  :19. USEFUL_CHARS.FTNI

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Debug
                2. System_tables

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:

Contribution Abstract.....:
Debug Information Extraction Interface. This set of subroutines can be used
to access the information generated by LINK when a program is loaded with
the DEBUG option. Symbol tables, addresses, etc. are available. Needs
DEBUGA.REL from the Symbolic Debugger to load properly. Includes the
program EE, which makes use of the editor.

```

E4 EDITOR

```

Contribution Name.....: E4
Title.....: E4 Editor
File Names.....:00. Rename Transfer File
                  :01. e4.sbmt
                  :02. $ED1K6
                  :03. $ED1KA
                  :04. $ED000
                  :05. E4.DOC
                  :06. E4.LOD
                  :07. E4.LST
                  :08. E4.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Editor
                2. Graphics

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA

```


Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 A version of EDIT/1000 that has block move capabilities along with some
 graphics capability using the line drawing character set of the HP
 terminals. Needs \$BIGLB to load.
 This contribution was provided by HP with no source code.

 EMACS

M221

EMACS EDITOR

Contribution Name.....: EMACS
 Title.....: EMACS editor
 File Names.....:

- :00. Rename Transfer File
- :01. emacs.sbmt
- :02. BASIC.C
- :03. BASIC.REL
- :04. BIND.C
- :05. BIND.REL
- :06. BUFFER.C
- :07. BUFFER.REL
- :08. CRYPT.C
- :09. CRYPT.REL
- :10. DISPLAY.C
- :11. DISPLAY.REL
- :12. EBIND.H
- :13. EDEF.H
- :14. EFUNC.H
- :15. EMACS.HLP
- :16. EMACS.RC
- :17. EMACS.TXT
- :18. EPATH.H
- :19. ESTRUCT.H
- :20. EVAL.C
- :21. EVAL.REL
- :22. EVAR.H
- :23. EXEC.C
- :24. EXEC.REL
- :25. FILE.C
- :26. FILE.REL
- :27. FILEIO 1000.C
- :28. FILEIO 1000.REL
- :29. HEAP LOCATION.C
- :30. HEAP LOCATION.REL
- :31. HP1000.TXT
- :32. HP2647.CMD
- :33. HPTERM.C
- :34. HPTERM.REL
- :35. INPUT.C
- :36. INPUT.REL
- :37. ISEARCH.C
- :38. ISEARCH.REL
- :39. LINE.C
- :40. LINE.REL
- :41. MAIN.C
- :42. MAIN.REL
- :43. MEMASM.H
- :44. MENU1
- :45. RANDOM.C
- :46. RANDOM.REL
- :47. README
- :48. REGION.C
- :49. REGION.REL
- :50. SEARCH.C
- :51. SEARCH.REL
- :52. SPAWN.C
- :53. SPAWN.REL
- :54. TERMIO.C
- :55. TERMIO.REL
- :56. UEMACS.DBG
- :57. UEMACS.LOD
- :58. UEMACS.MAKE
- :59. UEMACS.MAP
- :60. UPDUPD.C
- :61. UPDUPD.REL
- :62. WINDOW.C
- :63. WINDOW.REL
- :64. WORD.C
- :65. WORD.REL
- :66. STARTUP.C
- :67. STARTUP.REL
- :68. UPARSE.C
- :69. UPARSE.REL

Operating System(s).....: RTE-A
 Language(s).....: C
 Keywords.....: 1. Editor
 External Support Req'd...: D-mux or OBIO mux
 If Re-submission, Reason.:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:

Contribution Abstract.....:
 The popular public domain editor has been ported to the 1000 for those users
 on RTE-A with D-Rev or OBIO muxes. Written in C and requires the \$CCSC.LIB
 library from CCS. CCS has contributed this library to the CSL and it is
 found in the /gjob/libs/ccs.dir directory. May require DSD rev. 5.0 to link.

 MICROEMACS

M222

MICROEMACS EDITOR

Contribution Name.....: microEMACS
 Title.....: microEMACS editor

```

File Names.....:00. Rename Transfer File
:01. microemacs.sbmt
:02. ALINE.H
:03. AMIGA.RC
:04. ANSI.C
:05. AZMAP.CMD
:06. BASIC.C
:07. BDATA.CMD
:08. BIND.C
:09. BPAGE.CMD
:10. BUFFER.C
:11. CRYPT.C
:12. DG10.C
:13. DISPLAY.C
:14. DOLOCK.C
:15. EBIND.H
:16. EDEF.H
:17. EFUNC.H
:18. EMACS.HLP
:19. EMACS.MSS
:20. EMACS.RC
:21. EMACS.TUT
:22. ENV.PATCH.MAIL
:23. EPATH.H
:24. ESTRUCT.H
:25. EVAL.C
:26. EVAL.PATCH.MAIL
:27. EVAR.H
:28. EXEC.C
:29. FILE.C
:30. FILEIO.C
:31. FINDCOM.CMD
:32. FROM
:33. FUNC.CMD
:34. HP110.C
:35. HP150.C
:36. IBMPC.C
:37. INPUT.C
:38. ISEARCH.C
:39. LINE.C
:40. LOCK.C
:41. MAIN.C
:42. MAKEFILE.MWC
:43. MAKEFILE.UNX
:44. ME110.RC
:45. ME150.RC
:46. MENU.CMD
:47. MENU1
:48. NEWPAGE.CMD
:49. PPAGE.CMD
:50. RANDOM.C
:51. README
:52. REGION.C
:53. SEARCH.C
:54. SHELL.CMD
:55. SPAWN.C
:56. ST520.C
:57. ST520.RC
:58. TCAP.C
:59. TERMIO.C
:60. TIPC.C
:61. TRAND.CMD
:62. VMSVT.C
:63. VT52.C
:64. WINDOW.C
:65. WORD.C
:66. WPAGE.CMD
:67. Z309.C

Operating System(s).....: RTE-A
Language(s).....: C
Keywords.....: 1. Editor
External Support Req'd...: D-mux or OBIO mux
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
Believed to be a version of EMACS for various micro-computers.
It is untested and completeness is not known. Take your chances,
and let us know.

```

FLAX

M223

FLAX OF FLANL PACKAGE

```

Contribution Name.....: FLAX
Title.....: FLAX of FLANL package
File Names.....:00. Rename Transfer File
:01. flax.sbmt
:02. FLACK.FTN
:03. FLACK.LIB
:04. FLACK.REL
:05. FLANL.FTNI
:06. FLASH.FTN
:07. FLASH.FTNI
:08. FLASH.LOD
:09. FLASH.REL
:10. FLAX.DOC
:11. FLAX.FTN
:12. FLAX.FTNI
:13. FLAX.LOD
:14. FLAX.MAKE
:15. FLAX.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Files
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown

```

Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number..:
Telex.....:

Contribution Abstract.....:
Additional Documentation.....: We know nothing about this GJOB contribution
but have left it in just in case it is an undiscovered priceless gem!
If you can figure out just what it is good for, please let us know!

FMPERROR

SHOW FMP ERROR CODES

M224

Contribution Name.....: FMPERROR
Title.....: Show FMP error codes
File Names.....: 00. Rename Transfer File
 : 01. fmperror.sbmt
 : 02. FMPERR.FTN
 : 03. FMPERR.HLP
 : 04. FMPERR.LOD
 : 05. FMPERR.REL
 : 06. FMPERROR.CMD
 : 07. FMPERROR.HLP
 : 08. FMPERROR.MAKE

Operating System(s).....:
Language(s).....:
Keywords.....: 1. FMGR
 : 2. Error
 : 3. Help

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number..:
 Telex.....:
Contribution Abstract.....:
Allows user to interactively request explanation of FMP error codes. Needs
/ uses GET.

FMPPROFILE

D.RTR ANALYZER

M225

Contribution Name.....: FMPPROFILE
Title.....: D.RTR analyzer
File Names.....: 00. Rename Transfer File
 : 01. fmpprofile.sbmt
 : 02. FMPEVENT.FTN
 : 03. FMPEVENT.REL
 : 04. FMPPROFILE.FTN
 : 05. FMPPROFILE.LOD
 : 06. FMPPROFILE.MAKE
 : 07. FMPPROFILE.REL
 : 08. LDCB.FTN
 : 09. LDCB.REL
 : 10. PROC.FTN
 : 11. PROC.LOD
 : 12. PROC.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Disc
 : 2. Analyzer

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number..:
 Telex.....:
Contribution Abstract.....:
Gather time statistics on the D.RTR calls in an executing program. This can
be used to make the decisions on how to optimize the use of DCB buffer space,
whether to re-position or re-open, etc. RU,FMPPROFILE for help.

FORM

FORMS GENERATOR

M226

Contribution Name.....: FORM
Title.....: Forms generator
File Names.....: 00. Rename Transfer File
 : 01. form.sbmt
 : 02. TFORM
 : 03. ASMSC.FTN
 : 04. ASMSC.REL
 : 05. ASMTB.FTN
 : 06. ASMTB.REL
 : 07. FORM.FTN
 : 08. FORM.HLP
 : 09. FORM.LOD
 : 10. FORM.MAKE
 : 11. FORM.REL
 : 12. TFOR1.MAC
 : 13. TFOR1.REL
 : 14. TFOR2.MAC
 : 15. TFOR2.REL

```

:16. [TFOR2
:17. [TFORM
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Forms
: 2. Generation
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
Screen builder for forms mode applications, somewhat similar to FORMS/1000.
Smaller and faster but not as many bells or whistles.

```

FX

M227

FILE FILTERING

```

Contribution Name.....: FX
Title.....: File filtering
File Names.....:00. Rename Transfer File
:01. fx.sbmt
:02. FX.FTN
:03. FX.FTNI
:04. FX.HLP
:05. FX.LOD
:06. FX.MAKE
:07. FX.MAP
:08. FX.R000
:09. FX.REL
:10. FX.S000
:11. GREF.CMD
:12. REX.LIB
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Files
: 2. Filter
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
File filtering - FX performs various file operations including:
- concatenation of many files into one
- text pattern searching and modification
- binary file dumping
- key encryption and decryption
Program needs HPCRT.LIB (rev. 5.0) to load.

```

GET

M228

INTERACTIVE CI PROMPT

```

Contribution Name.....: GET
Title.....: Interactive CI prompt
File Names.....:00. Rename Transfer File
:01. get.sbmt
:02. GET.FTN
:03. GET.HLP
:04. GET.LOD
:05. GET.MAKE
:06. GET.REL
:07. SHIFT.FTN
:08. SHIFT.HLP
:09. SHIFT.LOD
:10. SHIFT.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. CI
: 2. Command_files
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
Allows a CI command file to interactively prompt the user.

```

GLOBALSPACE

M229

DISC SPACE REPORT

```

Contribution Name.....: GLOBALSPACE
Title.....: Disc space report
File Names.....:00. Rename Transfer File
:01. globalspace.sbmt
:02. DISCSpace.FTN
:03. DISCSpace.REL

```

```

:04. GLOBALSPACE.DBG
:05. GLOBALSPACE.FTN
:06. GLOBALSPACE.LOD
:07. GLOBALSPACE.MAKE
:08. GLOBALSPACE.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Disc
: 2. Management
: 3. Directory
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:
Contribution Abstract.....:
Reports disc space utilization under global directories on an LU by
LU basis. Requires 5.0 rev of FMP routines. RU,GLOBALSPACE,?? shows
help.

```

GSORT

M230

FAST MULTIPLE KEY SORT FOR FILES

```

Contribution Name.....: GSORT
Title.....: Fast multiple key sort for files
File Names.....:00. Rename Transfer File
:01. gsort.sbmt
:02. GSORO.PAS
:03. GSORO.REL
:04. GSORT.FTN
:05. GSORT.LOD
:06. GSORT.MAKE
:07. GSORT.REL
:08. GSUBS.MAC
:09. GSUBS.REL
:10. INITS.FTN
:11. INITS.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Sort
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:
Contribution Abstract.....:
Fast multiple key sort for files. Uses VMA. Verry fast.

```

HPCA

M231

HP RPN CALCULATOR

```

Contribution Name.....: HPCA
Title.....: HP RPN Calculator
File Names.....:00. Rename Transfer File
:01. hpcasbmt
:02. "HEADER
:03. CALC.HPCA
:04. CONVERT.FTN
:05. CONVERT.REL
:06. HPCA.ALL
:07. HPCA.DBG
:08. HPCA.DOC
:09. HPCA.FTN
:10. HPCA.HLP
:11. HPCA.LOD
:12. HPCA.MAKE
:13. HPCA.MRG
:14. HPCA.REL
:15. HPCA.BNRY.SCRN
:16. HPCA.HMS.SCRN
:17. HPCA.NORM.SCRN
:18. IGETT.FTN
:19. IGETT.REL
:20. MAKEFORMS.CMD
:21. SBNRY.MAC
:22. SBNRY.REL
:23. SHMS.MAC
:24. SHMS.REL
:25. SNORM.MAC
:26. SNORM.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Calculator
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Contribution Abstract.....:
Interactive simulation of an HP RPN style calculator. Has normal decimal
mode plus an octal mode and a very unusual time calculation mode. Enter
an "e" to end the program. Needs FORM (another GJOB contribution).

```

HP RPN CALCULATOR

```

Contribution Name.....: HPCA2
Title.....: HP RPN Calculator
File Names.....:00. Rename Transfer File
                  :01. hpca2.sbmt
                  :02. CALCS.MAC
                  :03. CALCS.REL
                  :04. CKEYS.MAC
                  :05. CKEYS.REL
                  :06. CURSER.FTN
                  :07. CURSER.LIB
                  :08. CURSER.REL
                  :09. CURSR.FTN
                  :10. HPCA2.DOC
                  :11. HPCA2.FTN
                  :12. HPCA2.LOD
                  :13. HPCA2.MAKE
                  :14. HPCA2.REL
                  :15. HPCA2.TTR
                  :16. TOUCHINIT.FTN
                  :17. [HPCA2

```

```

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Calculator
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

```

```

Contribution Abstract.....:
Another simulator like HPCA with less features but it is graphical in that
it draws a picture of the calculator on your screen. Keystrokes are echoed
in the picture. Good teaching tool for the RPN-phobic.

```

HP RPN CALCULATOR

```

Contribution Name.....: HPCA3
Title.....: HP RPN Calculator
File Names.....:00. Rename Transfer File
                  :01. hpca3.sbmt
                  :02. CALCS3.MAC
                  :03. CALCS3.REL
                  :04. CKEYS3.MAC
                  :05. CKEYS3.REL
                  :06. CURSER.FTN
                  :07. CURSER.LIB
                  :08. CURSER.REL
                  :09. HPCA3.FTN
                  :10. HPCA3.LOD
                  :11. HPCA3.MAKE
                  :12. HPCA3.REL
                  :13. TOUCHINIT.FTN
                  :14. TOUCHINIT.REL
                  :15. [HPCA3

```

```

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Calculator
                  : 2. Touch
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

```

```

Contribution Abstract.....:
A touchscreen (HP150) version of HPCA2. Works the same with the touch
feature added.

```

RP AND MAKE PROGRAM PERMANENT

```

Contribution Name.....: KEEP
Title.....: RP and make program permanent
File Names.....:00. Rename Transfer File
                  :01. keep.sbmt
                  :02. KEEP.DOC
                  :03. KEEP.FTN
                  :04. KEEP.MAKE
                  :05. KEEP.REL

```

```

Operating System(s).....: RTE-6
Language(s).....:
Keywords.....: 1. CI
                  : 2. ID segments
                  : 3. System

```

```

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California

```

Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 This utility is used to RP a program and clear the session number in its ID segment so that it will continue to execute when your session is logged off. Useful in the WELCOM file to "RP" programs from CI volumes as well. It also has options to control other aspects of the program, such as cloning, making the program look permanent, and setting the "self destruct" bit. This program is for RTE-6 systems. RU,KEEP for help.

 KEYUP

UPDATE IMAGE KEYS

M235

 Contribution Name.....: KEYUP
 Title.....: Update Image keys
 File Names.....:00. Rename Transfer File
 :01. keyup.sbmt
 :02. KEYUP.FTN
 :03. KEYUP.LOD
 :04. KEYUP.MAKE
 :05. KEYUP.REL
 Operating System(s).....:
 Language(s).....:
 Keywords.....: 1. Image
 : 2. Editor
 External Support Req'd...: Image or Image-II
 If Re-submission, Reason.:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 Lets you update key values in an IMAGE or IMAGE-II data base. Requires DBMS1.LIB to load.

 LOOKY

SYSTEM MAINTENANCE UTILITY

M236

 Contribution Name.....: LOOKY
 Title.....: System maintenance utility
 File Names.....:00. Rename Transfer File
 :01. looky.sbmt
 :02. HPZINVERSEASMBF.MAC
 :03. HPZINVERSEASMBF.REL
 :04. LOOKM.MAC
 :05. LOOKM.REL
 :06. LOOKY.DBG
 :07. LOOKY.FTN
 :08. LOOKY.LOD
 :09. LOOKY.MAKE
 :10. LOOKY.REL
 Operating System(s).....: RTE-A
 Language(s).....:
 Keywords.....: 1. Maintenance
 : 2. System tables
 : 3. Analyzer
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 Another system maintenance utility like CMM. This one can't alter your disc, so is slightly less dangerous.
 This program is for RTE-A only, and requires HPCRT.LIB (rev. 5.0) to load properly.

 MPACK

MASTER DISC PACKER

M237

 Contribution Name.....: MPACK
 Title.....: Master Disc Packer
 File Names.....:00. Rename Transfer File
 :01. mpack.sbmt
 :02. >MP000
 :03. MPACK.HELP
 :04. MPACK.LOD
 :05. MPACK.MAKE
 :06. MPACK.REL
 Operating System(s).....:
 Language(s).....:
 Keywords.....: 1. CI
 : 2. Disc
 : 3. Maintenance
 : 4. Pack
 External Support Req'd...:
 If Re-submission, Reason.:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California

Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 Master packer for new file system. Re-distributes the files in a CI disc
 LU to eliminate wasted space, fragmented free space, extents, etc.
 This contribution was provided by HP with no source code. Needs \$BIGLB
 (Rev. 5.0) to load.

ND

M238

COMMAND STACK FOR DIRECTORY NAMES

Contribution Name.....: ND
 Title.....: Command stack for directory names
 File Names.....:00. Rename Transfer File
 :01. nd.sbmt
 :02. LENGTH.FTN
 :03. LENGTH.REL
 :04. ND.FTN
 :05. ND.REL
 :06. ND.LOD
 :07. DIRFIND.FTN
 :08. DIRFIND.REL
 Operating System(s).....: RTE-6, RTE-A
 Language(s).....:
 Keywords.....: 1. Directory
 : 2. Shell
 : 2. Interactive
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 A replacement for the WD command that stacks the directory names for greater
 agility while working within multiple directories.

PAWS

M239

CI PAUSE COMMAND

Contribution Name.....: PAWS
 Title.....: CI Pause Command
 File Names.....:00. Rename Transfer File
 :01. paws.sbmt
 :02. PAWS.FTN
 :03. PAWS.HLP
 :04. PAWS.LOD
 :05. PAWS.MAKE
 :06. PAWS.OLD
 :07. PAWS.REL
 Operating System(s).....:
 Language(s).....:
 Keywords.....: 1. Command_files
 : 2. CI
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 Implements a pause function for CI of a specified time duration.

PHONE

M240

LEAVE A PHONE MESSAGE

Contribution Name.....: PHONE
 Title.....: Leave a phone message
 File Names.....:00. Rename Transfer File
 :01. phone.sbmt
 :02. ADDNAME.FTN
 :03. ADDNAME.REL
 :04. BUGS
 :05. CHANGES
 :06. CHANGES.NEXT
 :07. COMP.CMD
 :08. COMPDS.CMD
 :09. ENHANCEMENTS
 :10. GETNAME.FTN
 :11. GETNAME.REL
 :12. MANAGERS.CMD
 :13. NEWPHONE.CMD
 :14. PHODS.LOD
 :15. PHODS.MAP
 :16. PHODS.REL
 :17. PHONE.FTN
 :18. PHONE.HLP
 :19. PHONE.INC
 :20. PHONE.LTB
 :21. PHONE.MAKE
 :22. PHONELIB.MRG
 :23. PHONE_DS.INC
 :24. PHONE_REMOTE_6.LOD


```

:25. PHONE_REMOTE_A.LOD
:26. PMSG1.FTN
:27. PMSG1.REL
:28. PMSG2.FTN
:29. PMSG2.REL
:30. PMSG3.FTN
:31. PMSG3.REL
:32. PMSG4.FTN
:33. PMSG4.REL
:34. PMSG5.FTN
:35. PMSG5.REL
:36. SCHEMA
:37. SYSMESS.CMD
:38. TODO

Operating System(s).....
Language(s).....
Keywords..... 1. Mail
                2. Message
External Support Req'd... DS
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number...
Telex.....
Contribution Abstract.....
An emulation of the familiar "WHILE YOU WERE OUT" telephone message pads.
Works across systems in a DS/1000 network. Can be used as a mini-mail
system. Users are notified of incoming messages using the ALARM program.
Looks like it requires DS to function, and has a SCHEMA for the data base.

```

PLIST

PHONE LIST DATA BASE

M241

```

Contribution Name..... PLIST
Title..... Phone list data base
File Names.....:00. Rename Transfer File
                :01. plist.sgmt
                :02. FOOTING
                :03. PHONE.MAC
                :04. PHONE.REL
                :05. PHONIN
                :06. PLIST.FTN
                :07. PLIST.LOD
                :08. PLIST.MAKE
                :09. PLIST.REL
                :10. PUT.FTN
                :11. PUT.REL
                :12. REPPHL
                :13. SCHEMA
                :14. STSUB.LIB
                :15. STSUB.REL
                :16. [PHONE

Operating System(s).....
Language(s).....
Keywords..... 1. Mail
                2. Image
                3. Data base
External Support Req'd... Image
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number...
Telex.....
Contribution Abstract.....
Maintains a phone-list data base. Prints a directory that you can put in
your time-manager folio. Requires IMAGE.

```

PREX

SET EXEC CALL MESSAGE LENGTH

M242

```

Contribution Name..... PREX
Title..... Set exec call message length
File Names.....:00. Rename Transfer File
                :01. prex.sgmt
                :02. PREX.FTN      Thu Jun 30, 1988 10:40:15 am
                :03. PREX.LOD      Thu Jun 30, 1988 10:40:14 am
                :04. PREX.MAKE     Thu Jun 30, 1988 10:40:17 am
                :05. PREX.REL      Thu Jun 30, 1988 10:40:18 am

Operating System(s).....
Language(s)..... Fortran
Keywords..... 1. Compiler
                2. Pre-processor
External Support Req'd...
If Re-submission, Reason..
Contributor's Name..... Unknown
Company..... Hewlett-Packard
Street..... Data Systems Division
City..... Sunnyvale
State..... California
Country..... USA
Zip Code..... 94586
Phone Number...
Telex.....
Contribution Abstract.....
Pre-processor to fill in the message length on exec calls in fortran which
have the form "CALL EXEC(2,LU,15HMessage to send,-15)". This will be
converted to "CALL EXEC(2,LU,15HMessage to send,-15)". RU,PREX gives help.
Not quite so useful now that HpCrt has been released.

```

NETWORK NODE ANALYZER

```

Contribution Name.....: PROBE
Title.....: Network node analyzer
File Names.....:00. Rename Transfer File
                  :01. probe.sbmt
                  :02. PROBE.HLP      Thu Jun 30, 1988 10:59:05 am
                  :03. PROBE.LOD      Thu Jun 30, 1988 10:59:02 am
                  :04. PROBE.REL      Thu Jun 30, 1988 10:59:04 am

Operating System(s).....:
Language(s).....:
Keywords.....: 1. DS
                2. Network
                3. Analyzer

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Sends a special message to a given node in a DS/1000 network. As the
message traverses the network, the node numbers of the intermediate nodes
are captured and displayed upon return to the originating node. This is
useful for network verification and trouble analysis. Program requires
DS on the system.
This contribution was provided by HP with no source code.
    
```



PROLOG INTERPRETER

```

Contribution Name.....: PROLOG
Title.....: PROLOG interpreter
File Names.....:00. Rename Transfer File
                  :01. prolog.sbmt
                  :02. *PROG.TEXT
                  :03. *PROLIB.TEXT
                  :04. PREADIN.OLD
                  :05. PREADIN.PAS
                  :06. PREADIN.REL
                  :07. PROLOG.DOC
                  :08. PROLOG.GLO
                  :09. PROLOG.LOD
                  :10. PROLOG.MAKE
                  :11. PROLOG.OLD
                  :12. PROLOG.OPT
                  :13. PROLOG.PAS
                  :14. PROLOG.REL

Operating System(s).....: RTE-A
Language(s).....:
Keywords.....: 1. Interpreter
                2. Language

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
This version of a portable prolog interpreter has been modified to run on
a HP-1000 system using GDS. The syntax is fairly 'standard Edinburgh' but
there is a small front-end on the interpreter which puts up ?- prompts.
This is written in the library file *PROLIB.TEXT and can be removed if
the user desires. There is also an inbuilt function stats which may be
useful during program development.
    
```

DIRECTORY PURGE

```

Contribution Name.....: PUDIR
Title.....: Directory purge
File Names.....:00. Rename Transfer File
                  :01. pudir.sbmt
                  :02. PUDIR.CMD
                  :03. PUDIR.HLP

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Purge
                2. Management

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Purge a directory and all of its subdirectories and files. Dangerous, but
useful command file, using GET and SHIFT from the GET contribution.
    
```

```

Contribution Name.....: QRP
Title.....: Quick RP
File Names.....:00. Rename Transfer File
                  :01. qrp.sbmt
                  :02. QRP.FTN
                  :03. QRP.LOD
                  :04. QRP.MAKE
                  :05. QRP.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. CI
                : 2. System
                : 3. Maintenance

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Quick RP program accepts a list of programs to be RP'd in its runstring or
from a command file. MUCH faster than CI. RU,QRP gives help.
This program needs the 5.0 rev. of HPCRT.LIB.
    
```

```

Contribution Name.....: RELCHANGE
Title.....: Compare relocatables
File Names.....:00. Rename Transfer File
                  :01. relchange.sbmt
                  :02. RELCHANGE.FTN Thu Jun 30, 1988 10:40:44 a
                  :03. RELCHANGE.LOD Thu Jun 30, 1988 10:40:45 am
                  :04. RELCHANGE.MAKE Thu Jun 30, 1988 10:40:46 am
                  :05. RELCHANGE.REL Thu Jun 30, 1988 10:40:48 am

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Compare
                : 2. Relocatable
                : 3. Files

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Reports differences between relocatable files on a module by module basis.
RU,RELCHANGE gives help.
    
```

```

Contribution Name.....: RPALL
Title.....: RP, then OF, all files in mask
File Names.....:00. Rename Transfer File
                  :01. rpall.sbmt
                  :02. RPALL.FTN Thu Jun 30, 1988 10:38:06 am
                  :03. RPALL.LOD Thu Jun 30, 1988 10:38:08 am
                  :04. RPALL.MAKE Thu Jun 30, 1988 10:38:07 am
                  :05. RPALL.REL Thu Jun 30, 1988 10:38:04 am

Operating System(s).....:
Language(s).....:
Keywords.....: 1. System
                : 2. Maintenance
                : 3. Filter

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
RP's all programs in a specified searchpath:
RU RPALL <searchpatch> [-E]
where -E suppresses echo to terminal
    
```

```

Contribution Name.....: RPCHK
Title.....: Check for legal program files
    
```

```

File Names.....:00. Rename Transfer File
                  :01. rpchk.sbmt
                  :02. RPCHK.DOC
                  :03. RPCHK.FTN
                  :04. RPCHK.LOD
                  :05. RPCHK.MAKE
                  :06. RPCHK.REL
                  :07. RPOK.MAC
                  :08. RPOK.REL

Operating System(s).....: RTE-6
Language(s).....:
Keywords.....: 1. System
                2. Maintenance

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:

Contribution Abstract.....:
Used to see if type 6 files (programs) can be RP'd.
It accepts a file mask to allow checking an entire directory at one pass.
It can optionally be directed to purge those files which are not RP'able.
It is especially useful after switching to a new system after SYSGEN.
This program runs in RTE-6 only.

```

RTEQ6

M250

ID SEGMENT LISTER

```

Contribution Name.....: RTEQ6
Title.....: ID segment lister
File Names.....:00. Rename Transfer File
                  :01. RTEQ6.SBMT
                  :02. MEMS2.MAC
                  :03. MEMS2.REL
                  :04. RTEQ6.DOC
                  :05. RTEQ6.FTN
                  :06. RTEQ6.LOD
                  :07. RTEQ6.MAKE
                  :08. RTEQ6.REL

Operating System(s).....: RTE-6
Language(s).....:
Keywords.....: 1. ID segments
                2. System tables
                3. Maintenance

External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:

Contribution Abstract.....:
Used to display information about the ID segment of a program. It can
also be used to display the system communications area of the program
as it exists when the program is running. Needs FTN4 to compile. Compiles
with warnings with FTN7x.
This utility runs in RTE-6 only.

```

TASK

M251

TIME ACCOUNTING TOOL

```

Contribution Name.....: TASK
Title.....: Time accounting tool
File Names.....:00. Rename Transfer File
                  :01. task.sbmt
                  :02. CATEGORIES
                  :03. DAYS.DBG
                  :04. DAYS.FTN
                  :05. DAYS.LOD
                  :06. DAYS.REL
                  :07. DELETETASK.FTN
                  :08. DELETETASK.LOD
                  :09. DELETETASK.REL
                  :10. LISTTASK.FTN
                  :11. LISTTASK.LOD
                  :12. LISTTASK.REL
                  :13. SCHEMA
                  :14. T.FTN
                  :15. T.REL
                  :16. TASK.COM
                  :17. TASK.DAT
                  :18. TASK.FTN
                  :19. TASK.INC
                  :20. TASK.LOD
                  :21. TASK.MAKE
                  :22. TASK.REL
                  :23. TASK.BLOCK.FTN
                  :24. TIME_EXAMPLE.FTN
                  :25. TIME_EXAMPLE.REL
                  :26. TS.FTN
                  :27. TS.REL
                  :28. TSCRN.MAC
                  :29. TSCRN.REL
                  :30. TSK01.FTN
                  :31. TSK01.REL
                  :32. TSK02.FTN
                  :33. TSK02.REL
                  :34. TSK03.FTN
                  :35. TSK03.REL

```

```

:36. TSK04.FTN
:37. TSK04.REL
:38. TSKSUB.FTN
:39. TSKSUB.REL
:40. TSTAT.FTN
:41. TSTAT.LOD
:42. TSTAT.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Accounting
                2. Time
                3. Image

External Support Req'd...: Image
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Keeps track of time spent on different activities. Time accounting tool,
especially useful to professionals (such as consultants) who charge by the
hour. Requires DBMS1.lib from IMAGE.

```

TERM_TYPE

OBTAIN TERMINAL TYPE

M252

```

Contribution Name.....: TERM_TYPE
Title.....: Obtain terminal type
File Names.....:00. Rename Transfer File
                :01. term_type.sbmt
                :02. TERM_TYPE.FTN
                :03. TERM_TYPE.HLP
                :04. TERM_TYPE.LOD
                :05. TERM_TYPE.MAKE
                :06. TERM_TYPE.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Terminal
                2. System

External Support Req'd...: HP terminals with ID's
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Returns the terminal type identification from the newer HP terminals in a
CI variable so it is accessible from command files.

```

TN

REMOTE LOGON MONITOR

M253

```

Contribution Name.....: TN
Title.....: Remote LOGON monitor
File Names.....:00. Rename Transfer File
                :01. tn.sbmt
                :02. TN.LOD
                :03. TN.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Logon/logoff
                2. Scheduling
                3. DS

External Support Req'd...: DS/1000
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number.....:
Telex.....:

Contribution Abstract.....:
Remote logon monitor program, allows you to easily start up a session on
another DS/1000 system via virtual terminal support. Does setup and
cleanup as well. Program requires DS on the system.
This contribution was provided by HP with no source code.

```

TRFIL

FMGR TRANSFER FILE INTERPRETER

M254

```

Contribution Name.....: TRFIL
Title.....: FMGR transfer file interpreter
File Names.....:00. Rename Transfer File
                :01. trfil.sbmt
                :02. ATOB.FTN
                :03. ATOB.REL
                :04. DEMO
                :05. DEMO.OUT
                :06. GTOP.FTN
                :07. GTOP.REL
                :08. TRFIL.DOC
                :09. TRFIL.FTN

```

```

:10. TRFIL.INFO
:11. TRFIL.LOD
:12. TRFIL.MAKE
:13. TRFIL.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Interpreter
                2. FMGR
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
Implements high level constructs in FMGR transfiles. Basically an
interpreter to convert IF.THEN.ELSE, GOTO, and ASSIGNMENT operations into
FMGR command syntax.

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TUTOR

M255

INTERACTIVE TUTORIAL GENERATOR

```

Contribution Name.....: TUTOR
Title.....: Interactive tutorial generator
File Names.....:00. Rename Transfer File
                :01. tutor.sbmt
                :02. BUILDTUTOR.DBG
                :03. BUILDTUTOR.FTN
                :04. BUILDTUTOR.LOD
                :05. BUILDTUTOR.OLD
                :06. BUILDTUTOR.REL
                :07. INCLUDE TEST.TTR
                :08. INCLUDE TEST.TTRI
                :09. MAKETEST.FTN
                :10. PROMPT TEST.TTR
                :11. TEST.TTR
                :12. TUTOR.FTN
                :13. TUTOR.HLP
                :14. TUTOR.LOD
                :15. TUTOR.MAKE
                :16. TUTOR.OLD
                :17. TUTOR.REL
                :18. TUTOR.REMOTE.LOD
                :19. UPSHIFT.MAC
                :20. UPSHIFT.OLD
                :21. UPSHIFT.REL
                :22. VIDEO.FTN
                :23. VIDEO.OLD
                :24. VIDEO.REL
                :25. WINDOW2 TEST.TTR
                :26. WINDOW_TEST.TTR
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Interactive
                2. Demo
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
This program interprets a command file for an interactive tutorial session.
Think of it as an interpretive teaching language. Includes the program
BUILDTUTOR that formats the screens that are displayed during the session.
Can be used for any subject, not just computer literacy. See HPCA2 for an
example. Needs $MACLB to load.

```

UCOPY

M256

COPY FILE BASED ON MASK

```

Contribution Name.....: UCOPY
Title.....: Copy file based on mask
File Names.....:00. Rename Transfer File
                :01. ucopy.sbmt
                :02. UCOPY.DBG
                :03. UCOPY.FTN
                :04. UCOPY.FTMI
                :05. UCOPY.LOD
                :06. UCOPY.MAKE
                :07. UCOPY.REL
Operating System(s).....:
Language(s).....:
Keywords.....: 1. Copy
                2. Filter
                3. CI
External Support Req'd...:
If Re-submission, Reason.:
Contributor's Name.....: Unknown
Company.....: Hewlett-Packard
Street.....: Data Systems Division
City.....: Sunnyvale
State.....: California
Country.....: USA
Zip Code.....: 94586
Phone Number...:
Telex.....:
Contribution Abstract.....:
This program examines the files described by a source mask and a destination

```

mask. If the time stamp of the source file is newer than that of the destination file, the copy is done. This program is especially useful in a DS/1000 network.
Requires HPCRT.LIB (rev. 5.0) to load properly.

VCOM

VISUAL SOURCE COMPARE

M257

Contribution Name.....: VCOM
Title.....: Visual source compare
File Names.....:00. Rename Transfer File
 :01. vcom.sgmt
 :02. TEST1
 :03. TEST2
 :04. VCOM.DBG
 :05. VCOM.DOC
 :06. VCOM.FTN
 :07. VCOM.LOD
 :08. VCOM.MAKE
 :09. VCOM.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Compare
 : 2. Files
 : 3. Interactive

External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
Contribution Abstract.....:
Visual source compare program. Displays two source files side by side with differences highlighted in inverse video. Nice for quickly comparing files in context. Program contains help screens.

WAKEUP

TERMINAL ACTIVITY MONITOR

M258

Contribution Name.....: WAKEUP
Title.....: Terminal activity monitor
File Names.....:00. Rename Transfer File
 :01. wakeup.sgmt
 :02. FLASH.FTN
 :03. FLASH.OLDF
 :04. FLASH.REL
 :05. TO.MAC
 :06. TO.REL
 :07. WAKEUP.FTN
 :08. WAKEUP.LOD
 :09. WAKEUP.MAKE
 :10. WAKEUP.REL
 :11. WAKEUPPROC.FTN
 :12. WAKEUPPROC.REL

Operating System(s).....:
Language(s).....:
Keywords.....: 1. Terminal
 : 2. System
 : 3. CI

External Support Req'd...:
If Re-submission, Reason...:
Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
Contribution Abstract.....:
This beeps the terminal if no activity within a certain amount of time. It keeps beeping at 7 second intervals until the name of one of the 50 states in the United States is entered. Cheaper than an overseer with a whip and less painful tool!
Program is for RTE-6 only.

WHERE

WHERE IS EVERYONE

M259

Contribution Name.....: WHERE
Title.....: Where is everyone
File Names.....:00. Rename Transfer File
 :01. where.sgmt
 :02. CHSUB.MAC
 :03. CHSUB.REL
 :04. CK.FTN
 :05. CK.LOD
 :06. CK.REL
 :07. CLR.FTN
 :08. CLR.LOD
 :09. CLR.REL
 :10. LOGFIL
 :11. SAMPLE.CMD
 :12. WHERE.FTN
 :13. WHERE.LOD
 :14. WHERE.MAKE
 :15. WHERE.REL

Operating System(s).....: RTE-6
Language(s).....:

Keywords.....: 1. Data base
 : 2. Office
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 A computerized "I'll be back at 3 P.M." type of program. Keeps track of
 who is in the office, who is out, and where everybody is.
 Program is for RTE-6 only.

 WHOS6

M260

 TYPE 6 FILE OWNERSHIP

Contribution Name.....: WHOS6
 Title.....: Type 6 file ownership
 File Names.....:00. Rename Transfer File
 :01. whos6.sgmt
 :02. RPOK.MAC
 :03. RPOK.REL
 :04. WHOS6.DOC
 :05. WHOS6.FTN
 :06. WHOS6.LOD
 :07. WHOS6.MAKE
 :08. WHOS6.REL
 Operating System(s).....: RTE-6
 Language(s).....:
 Keywords.....: 1. Management
 : 2. Maintenance
 : 3. System_tables
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 Used to examine type 6 files to see who owns them. It is especially useful
 when preparing to do a SYSGEN to contact the owners of programs, perhaps even
 more useful after the switch when some of the programs are found to be no
 longer executable! RU,WHOS6 for help.
 This program is for RTE-6 systems.

 ZAPDB

M261

 REMOVE DEBUG AND LINDX RECORDS

Contribution Name.....: ZAPDB
 Title.....: Remove DEBUG and LINDX records
 File Names.....:00. Rename Transfer File
 :01. zapdb.sgmt
 :02. ZAPDB.FTN
 :03. ZAPDB.LOD
 :04. ZAPDB.MAKE
 :05. ZAPDB.REL
 Operating System(s).....:
 Language(s).....:
 Keywords.....: 1. Debug
 : 2. Relocatable
 External Support Req'd...:
 If Re-submission, Reason...:
 Contributor's Name.....: Unknown
 Company.....: Hewlett-Packard
 Street.....: Data Systems Division
 City.....: Sunnyvale
 State.....: California
 Country.....: USA
 Zip Code.....: 94586
 Phone Number...:
 Telex.....:
 Contribution Abstract.....:
 Does an in-place removal of DEBUG and LINDX records from a relocatable file.
 RU,ZAPDB gives help.

