



SOFTWARE RELEASE SUMMARIES

March - April 1982

DATAPOINT CORPORATION
SOFTWARE RELEASE FORMS

Covering the period from: 3/31/82 to 4/20/82

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DATAPOINT COMPUTER SYSTEMS DIVISION

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PRODUCT/VER.REV: 27803780 1.3

DESCRIPTION: IBM 2780/3780 EMULATOR

This product provides the emulator and line driver needed to emulate an IBM 2780 or 3780 Remote Job Terminal.

PURPOSE OF RELEASE: 2 - Corrects problems (bugs)
3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: 27803780 1.2

SOFTWARE REQUIRED: RMSNL38 1.7.1
RMSNL66 1.7.1
RMSNL86 1.7.1
RMSNL88 1.8.1
COM_RESIDENT 1.3.1
UCF 1.2
COMMPAC 1.2
CONFIG 1.6

HARDWARE SUPPORTED:

Minimum Memory: 14K
Communications Devices: 38XX (96K or greater) - ICA
66XX (128K or greater) - 9481
8600 - MFCA
8800 - MFCA

REVISIONS:

** 1.2 **

Support added for 8800.

2. Fixes bug in auto-dial routine.

3. Fixed PFDB extension problem. (PRS# 1607)

4. Fixes spurious configuration version mismatch error.

5. Uses configured inter-character timeout (PRS# 1750).
6. Fixes bug in auto-disconnect timer (PRS# 1762).
7. Fixes error incrementing activity counter on closed FAV (PRS# 1766).
8. ERNODSR is now an auto-disconnect error.
9. 2780 terminal id now restricted to 2 characters (PRS# 1771).
10. Passes 2780-mode flag from configuration to CFCS correctly.
11. Handles multi-point operation correctly (PRS# 1770).
12. CFCS knows line is connected if ERECP is returned.

** 1.3 **

13. Support added for 8600.

ERRORS PENDING:

1. 2780 gives unknown error 250/040 when an incompatible config file is used (PRS #1852).
2. With MPADDR configured, +TS command gives "INVALID TO DO" error message on PFDB. (PRS #1853).
3. If the communications device name contains a \$, then the emulator cannot open it. (PRS# 1975)

PROGRAM FILES RELEASED:

27803780/RFM	*Release Form*
2780/AES	2780 Emulator Library
3780/AES	3780 Emulator Library
2780/CNFG	2780 Configuration file
2780/CNFG	3780 Configuration file
COMM GEN/CHN	Installation chain file

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SYMBOL/VER.REV: BACKUP 1.2

DESCRIPTION: BACKUP Command

File-by-file and multi-volume disk backup and restore utility.

PURPOSE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: BACKUP 1.1

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Minimum Memory: 32K

REVISIONS:

** 1.2 **

1. The program no longer allows entry into the debugger during normal operation. (PRS # 1603)
2. A garbled line on the "HELP" screen was corrected. (PRS #2330)
3. A problem was corrected which caused an RMS error "LOGICAL SECTOR NUMBER OUTSIDE OF ALLOCATED SPACE". This occurred whenever either or both of the top level catalogs was the BLANK/BLANK catalog. (PRS # 2153 & 2270)
4. A problem which occurred when the source disk contained a large number of files was corrected. (PRS #2105)

LIMITATIONS:

1. Exclusions of the top level HSI of the input specification causes "USER MODE VIOLATION" (PRS # 2453).
2. HELP screen is not correct (PRS # 2455).
3. Use of the BYPASS option when many of the output files exist may cause "NO MORE ROOM IN SYSTEM TABLE. (PRS# 1323)

PROGRAM FILES RELEASED:

BACKUP/RFM	*Release Form*
BACKUP/CMD	Command file

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PRODUCT/VER.REV: BACKUP9301 1.2

DESCRIPTION: BACKUP AND RESTORE THE 9301 DISK

The product is a fast mirror image backup and restore program to save/restore the 9301 disk to/from the tape.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: BACKUP9301 1.1

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Processor: 8600
Minimum Memory: 12K
Disk: 9301 Disk/Tape Sub-system

REVISIONS:

** 1.2 **

1. Fixed the HELP MESSAGES so that they make reference to 'BACKUP9301' rather than 'DIAGLOAD'. (PRS# 2000)
2. Fixed the signon message (PRS# 2203)
3. Fixed the UTILITY to support the extension disk subsystems. (PRS #2429)
4. Complete change of user interface.

LIMITATIONS:

With 9301 FIRMWARE REV B:

1. When the 9301 tape is removed during a BACKUP9301 operation, the program erroneously issues "OPERATION COMPLETE". If this happens while writing to tape, the tape is unuseable until it is overwritten with TAPEUTIL. If this occurs while writing to disk the disk is incomplete and unuseable. (PRS# 2273)

PROGRAM FILES RELEASED:

BACKUP9301/RFM	*Release Form*
BACKUP9301/RMS	Backup/Restore Command
BACKUP9301/CMD	Command Loader

CAT 1.3.1

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CAT 1.3.1

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PRODUCT/VER.REV: CAT 1.3.1

DESCRIPTION: RMS Catalogue Command

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: CAT 1.3

SOFTWARE REQUIRED: RMS NUCLEUS
SORT/CMDHARDWARE SUPPORTED:
Minimum Memory: 24K

REVISIONS:

** 1.2 **

1. Creates a workfile (CAT/WRK1:W) if not enough memory available for filenames. (PRS# 1424)
2. Runs as an independent task.
3. Software debugger completely under control of BP option. (PRS# 1586)

** 1.3 **

1. CAT has been rewritten from scratch. Major features:
 - A) Default to no sort unless SORT option used.
 - B) Options available to write out printfile/printer or filespecs; also can search for catalogs via option.
 - C) Environment can be generic.
 - D) Work file created if not enough memory available.
 - E) Messages indicating empty catalog and catalog search error (CAT sets abort bit and continues).
 - F) SOPEN used if filename/extension are not generic (much faster).
2. Use HELP or H option for HELP screen.

** 1.3.1 **

1. Specifying PRINT and FILESPEC on the command line no longer causes a \$SECR error. The conflicting options error message is displayed after which the program takes a \$ERROR exit. (PRS #1934)
2. When logging is turned on, 3-up filespecs are no longer "squashed" together in the log file. The filespecs in the logfile are now separated by blanks and appear the same as they do on the screen. (PRS #2111)
3. CAT no longer generates an SPC followed by a count of 001 when the PRINT (P) option is used. (PRS #2322)

LIMITATIONS:

1. CAT 1.3.1 conflicts with the RMS User's Guide in that CAT allows the generic '?' character to "recognize" blanks. (PRS #2310)

PROGRAM FILES RELEASED:

CAT/CMD	Command Library
CAT/RFM	Print file for release form

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PRODUCT/VER.REV: RMS COBOL 2.1

DESCRIPTION: ANS COBOL Compiler

Datapoint ANS COBOL is a powerful high-level English-like programming language. New and existing programs will execute on Datapoint 8800, 8600, 3800, and 6600 processors with a minimum of effort due to the widespread use of this industry standard language. Several extensions have been added to take advantage of the processing capabilities of the Datapoint processor.

PURPOSE OF RELEASE: Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: RMS COBOL 1.3

EXECUTION SUPPORT: Compilation Object Execution

SOFTWARE:	RMS	RMS
	RMSUFRS/REL	
	LRI/O/REL	
	FAR/REL	
	FIORMS/REL	
	LPS/REL	

HARDWARE :

Processor:	6600/3800/8800/8600	6600/3800/8800/8600
Minimum Memory:	64K	36K
Maximum/Typical:	268K	80K
Disk:	All supported by RMS	All supported by RMS
Printer:	Local	Local
Magnetic tape:	No	Local
Card Reader:	No	Local

IMPLEMENTATION LEVELS:

Datapoint Corporation's implementation of American National Standard X3.23 - 1968 COBOL is to the following levels:

NUCLEUS	Level 1
TABLE FACILITIES	Level 2
SEQUENTIAL ACCESS	Level 1
RANDOM ACCESS	Level 1
SORTING FACILITIES	Level 2
SEGMENTATION	Level 1
LIBRARY FACILITIES	Level 2

Also, the following selected features from NUCLEUS, SEQUENTIAL ACCESS, and RANDOM ACCESS, Level 2 have been included:

Name Qualification
Full Continuation for Words and Literals
Complete Figurative Constants
Arithmetic Expressions
Extended File Options

In addition, Datapoint Corporation's implementation of American National Standard X3.23-1974 COBOL is to be validated January 1982, by the Federal Compiler Testing Center at the FIPS low-intermediate level. The Validation Number will be announced. FIPS low-intermediate consists of:

NUCLEUS	Level 1
TABLE HANDLING	Level 1
SEQUENTIAL I-O	Level 1
INTER-PROGRAM COMMUNICATION	Level 1
LIBRARY	Level 1
RELATIVE I-O	Level 1
SEGMENTATION	Level 1
INDEXED I-O	Level 1

Datapoint ANS COBOL extensions include:

SPACE- and DIGIT-compressed files
Managed files
DATABUS and EBCDIC Numeric Formats
SHARED FILE ENQUEUE/DEQUEUE
PIPE communications
Disk printer files
Interactive DEBUGGING Facilities
SPECIAL I/O Interfacing
Command-line Interface
Special FUNCTION KEYS Interface

Interactive Screen Formatting and Interface

ENHANCEMENTS:

- LARGE PROGRAM SUPPORT (LPS)
Large programs that are going to be run only on 8000-series (8800 or 8600) processors can be compiled with the 'V' option. This option causes the resulting program to make use of the large program support feature which allows up to 960K of procedure division without segmentation. The program will make use of physical memory up to the maximum specified in the PCR and if necessary will be 'paged' in from disk in small partitions.
- The COBOL debugger no longer consumes 12K of logical memory. The logical memory resident portion is now approximately 300 bytes long. The debugger currently is not compatible with large programs compiled with the 'V' option. (see #1 above)
Fatal errors will now display the statement number if the /SYM file is available, even if ;DBG is not specified.
- The compiler and runtime now are compatible with LOG and the BJJ executor with or without a workstation. Error messages are logged as standard messages. Interactive ACCEPT and DISPLAY and STOP literal cannot be run without a workstation. The COBOL debugger also requires a workstation. Interactions for mounting tapes and changing printer paper also requires a workstation.
- FIPS low-intermediate '74 modules are now supported.
These include:
INTER-PROGRAM COMMUNICATION LEVEL 1
LIBRARY LEVEL 1
RELATIVE LEVEL 1
SEGMENTATION LEVEL 1
INDEXED LEVEL 1
See the Manual Addendum for details.
- File OPEN messages may be suppressed by adding the following LINK command to COBLINK/LCHN after the second SEGMENT command: MEMORY CSOPNMSG=0.
- The NQ/DQ controller pipename may be renamed by adding the following LINK command to COBLINK/LCHN after the second SEGMENT command: MEMORY CSNQNAME='newpipename'.
- Compilation print files now list the command line and have more space for user headings.

- The reserved word SORT-MERGE has been added to allow the FIPS low-intermediate construct: SAME SORT-MERGE AREA.
- Documentation has been added to describe the compiler V option and the runtime DBG option.
- LPS performance statistics may be generated by the LPSTAT runtime option.

REVISIONS:

- A problem with restarting an NQDQ program after it has been aborted has been fixed.
- A problem with multiple re-displays of characters in interactive COBOL has been corrected.
- A 'MISSING FIRST PARAGRAPH' compiler diagnostic removed in COBOL 1.3 has been reinstated.
- A problem with writing duplicate keys into an ISAM file has been corrected.
- The compiler and runtime now logs all messages.
- Programs accessing incorrectly indexed files now generate an appropriate message.
- Full-sized printer disk file names are now accepted in the ASSIGN clause.
- Debugging with tables now works.
- A problem that caused a system table overflow to occur after reopening the same file numerous times has been fixed.
- A problem with LPS not respecting the PCR MAXMEM has been corrected. (PRS# 1802)
- A problem with LPS not working with a larger than 64K procedure division has been fixed.
- A problem with LPS not generating an error message when at least 4K is not available for the LPS window, has been corrected.
- A problem with issuing runtime error messages with statement numbers has been fixed.
- A problem with INSPECT under LPS has been fixed.
- Unknown error messages are being defined in the RMS 1.9 RMSMESSAGES file. (PRS# 1803)
- Subscripted numeric class tests in PERFORM statements now work properly.
- Full length LOCAL-PRINTER disk filenames no longer produce an invalid device error message.
- Problem with CBLINK using sub-programs and LPS has been fixed. (PRS# 2238)

LIMITATIONS:

1. Source program names longer the 8 characters cause an invalid COBLINK/CHN file to be generated when the programs are segmented.
2. A compiler listing to a remote printer does not properly set up the remote printer name for CBLINK.
3. Runtime error messages do not set the abort flag.
4. When using CBLDEBUG, the breakpoint set using paragraph name as opposed to line number is not added to the breakpoint table. (PRS# 2419)
5. An incorrect error message is generated when reading an unlabeled tape with a program that specifies standard labels.
6. The NO REWIND option of the CLOSE statement does not work. (PRS# 2439)
7. The LOCK option of the CLOSE statement does not work. (PRS# 2416)
8. An extra message appears when one opens an incorrectly indexed file.
9. Depressing the interrupt key displays an 015 during interactive accept.
10. Filenames with \$ or underscore cause and invalid separator in CBLINK.
11. CBLINK fails to set PCR abort bit when encountering errors in a LINK edit run. (PRS# 2457)
12. Time-out counter with pipes doesn't work.
13. C\$NEOPF does not write an EOF mark into a pipe.
14. Under certain conditions when issuing a runtime error message the COBOL debugger is loaded in an allocated memory causing a NUCLEUS error; This happens in the 8800 NUCLEUS. (PRS# 2483)

PROGRAM FILES RELEASED:

COBOL/CMD	COBOL Compiler
COBOLLIB/REL	COBOL runtime library with LIOCS
COLTASK/REL	COBOL interactive function key support
COBOL/RPM	COBOL release form
CBLDEBUG/CMD	COBOL runtime debugger
CBLINK/CMD	COBOL linkage editor
CBLOVL/LIB	COBOL runtime open overlays, absolute
CBLOVLS/REL	COBOL runtime open overlays, relocatable

DATAPOINT COMPUTER SYSTEMS DIVISION

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PRODUCT/VER.REV: COM_RESIDENT 1.3.1
 DESCRIPTION: NUCLEUS COMMUNICATIONS RESIDENT MODULE

This is the 'Relocatable Variable Resident' portion of the RMS nucleus and is responsible for nucleus configuration and overlay control.

PURPOSE OF RELEASE: 2 - Corrects problems (bugs)
 3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: COM_RESIDENT 1.2

SOFTWARE REQUIRED: RMSNL38 1.7.1
 RMSNL66 1.7.1
 RMSNL86 1.7.1
 RMSNL88 1.8.1

HARDWARE SUPPORTED:
 Minimum Memory: Configuration Dependent
 Processors: 38XX (96K or greater)
 66XX (128K or greater)
 8600/8800

REVISIONS:

** 1.2 **

1. Support added for 8800.
2. Fixed problem encountered if an MFCA abort occurred during a CLOSE.
3. Fixed problem encountered if PTOD0 was less than PMXBF during an OPEN.
4. Fixed multiple MFCA addressing problem.
5. Fixed problem in error reporting when the named driver overlay was not configured.
6. Fixed error in LINKED LIST handling which was causing mysterious hangs.

7. Spurious PFDB extension or buffer list too long error.
8. Fixed problem in user addressing from PP which would have had strange effects in the event of a memory access violation.

** 1.3 **

1. Added support for 8600.

** 1.3.1 **

1. Temporary resolution 0028 - corrected system hang on 8600 during the MFCA load sequence.
2. Temporary resolution 0029 - corrected problem when a CFAV was within 256 bytes of the end of a sector which caused the 8800 to read an unmapped sector table entry.
3. Temporary resolution 0027 - remove a breakpoint instruction in initialization on 8600 REL files.
4. Temporary resolution 0033 - corrected incorrect physical address in descriptor block which caused the 8600 MFCA to be downloaded incorrectly.
5. Temporary resolution 0026 - corrected problem when a CFAV was within 256 bytes of the end of a sector which caused the 8600 to read an unmapped sector table entry.

ERRORS PENDING:

1. If abort is done during open or an error occurs during open, the device does not close properly. If the user attempts to open the device again without rebooting, the error message 'RESOURCE NO LONGER AVAILABLE' will be displayed. (PRS #1857)
2. When running communications at speeds greater than 9600 BAUD, the MFCA in the 8600 or 8800 processors may become 'hung' during data reception. The processor must be rebooted to recover (PRS# 2255)

PROGRAM FILES RELEASED:

COM_RESIDENT/RPM	*Release Form*
CAFRES_3800/REL	CAF 3800 Resident Library
CAFRES_5500/REL	CAF 5500 Resident Library
CAFRES_6600/REL	CAF 6600 Resident Library
CAFRES_8600/REL	CAF 8600 Resident Library
CAFRES_8800/REL	CAF 8800 Resident Library
CAFRES_GEN/CHN	Nucleus Installation Chain file

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PRODUCT/VER.REV: DATABUS 1.7.1

PRODUCT DESCRIPTION: DATABUS INTERPRETER

This program interprets code produced by the DATABUS compiler (DBCMP).

PURPOSE OF RELEASE: 3 - Adds new features
 2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: DATABUS 1.6

SOFTWARE REQUIRED: DBCMP 1.4
 NQDQINIT 1.4
 CONFIG 1.6
 CONFGFMT 1.4.4
 FMTCONT 1.4.4
 MANAGE 1.2

NUCLEUS VERSIONS: 38XX 1.7.1
 5XXX 1.6.1
 6XXX 1.7.1
 86XX 1.7.1
 88XX 1.8.1

HARDWARE SUPPORTED:
 Minimum Memory: 32K

REVISIONS:

** 1.5 **

1. Due to the addition of an expanded displayable character set and a more device independent screen control mechanism, the object code of some instructions has been changed. All DATABUS programs must be recompiled with DBCMP 1.3 to be run with DATABUS or DATASHARE 1.5.
2. *ESCOFF (ESCAPE OFF) and *ESCON (ESCAPE ON) are new list controls allowed in KEYIN and DISPLAY statements. Programs using octal control characters below 040 (octal) in DISPLAY and KEYIN statements to control display screen, serial printer or foreign device actions must be changed. Those programs which utilize the mnemonic control codes (e.g.*L) and those which do not use values below 040 (octal) do not require any modification. For complete information on the changes required,

please reference Update Number 4 September 1981 of the RMS DATABUS User's Guide.

3. Tabbing and partial I/O have been added.
4. Several verbs and features from the DOS DATABUS language have been implemented.
The logical operations, AND, OR, NOT, and XOR have been added.
The SCAN verb allows searching for the occurrence of one string in another.
The COUNT verb counts the number of effective keystrokes needed to enter the data residing in a list of variables.
The PACK verb appends data from several variables together into one variable.
The UNPACK verb separates data from one variable into several others.
The *PON (Printer ON) and *POFF (Printer OFF) KEYIN and DISPLAY list controls allow control of a serial printer attached to a terminal.
The *LL (write Logical Length) and *PL (write Physical Length) WRITE, WRITAB, UPDATE, and UPDATAB list controls affect the way character string variables are written. Normally, the write starts at the first physical character, continues through the logical length pointed character, and blank fills for any remaining character positions until the end of the variable. For a null variable, all blanks are written. The *LL list control causes the logical string (characters between the formpointer and logical length pointer) to be written with no blank fill. For a null variable, nothing is written. The *PL list control sets the mode back to normal.
5. A new open mode, SHARENF has been added, which is share no-flush.
6. Some new KEYIN and DISPLAY list controls have been added. *ESON (echo secret on) and *ESOFF (echo secret off) are allowed in KEYIN statements. *ESON causes asterisks('*') to be echoed on the screen for keyed in characters. *ESOFF cancels the effect of *ESON.
7. A FLUSH verb has been added which allows the user to force buffers for a file to be purged and written to disk. The syntax is FLUSH <FILELIST> where FILELIST is a list of FILES and IFILES. Each FILE or IFILE in the list is flushed.
8. An error in processing the printer offline condition which caused the interpreter to give an error and die has been fixed.
9. An error in PAR which caused an error if the printer were closed and reopened (such as after a release) has been gotten around by a change in the interpreter.

10. Several problems with the EXECUTE verb have been fixed.
11. Octal control values are now allowed in write lists. Octal values in WRITE, KEYIN, DISPLAY, and PRINT statements are now limited to the range 0 to 0177.
12. Documentation Correction: Page 9-20, Update 4, September 1981 of the RMS DATABUS User's Guide. Sections 9.1.3.32 and 9.1.3.33 erroneously reference version 1.6 of the RMS NUCLEUS. The correct reference is to the nuclei released with the RMS 1.6 system release, release 1.5 of the DATASHARE and DATABUS interpreters, and DBCMP release 1.3. The documentation Update 5 references the version numbers correctly.

** 1.6 **

1. Several new KEYIN/DISPLAY list controls have been implemented: *H, *V, *HA, *VA, *HU, *HD, *CURSON, *CURSOFF, *CLICK, *CLICKON, *CLICKOFF, *DSPNW, *DSPW, *VZLON, *ULON, *BLINKON, *SETSWTB, *SETSWLR, *RESETSW, *INSCHR, *DELCHR, *INSLIN, *DELLIN, *OPNLIN, *CLSLIN, *ESCHAR, *RPTCHAR, *SCRLFT, and *SCRRIGHT.
2. The limit of 256 bytes of common data area has been eliminated. There is now no limit on the size of common data area. Common data must still be defined at the beginning of the program, before any non-common data declarations.
3. A change was made in the way common is handled to allow programs to pass error messages which the interpreter places in a variable at the beginning of UDA back to the master program. The user should declare a common variable at least 30 characters long (DIM 30) at the beginning of each program, including the master program. When an untrapped error occurs, the interpreter will place the error message in this variable and return to the master program which can then check the variable to see if a message resides in it. The problem with this method before was that since the variable is declared common in the master program it would never be initialized (a function typically performed by the answer program in a DATASHARE system). The change made to the interpreter is that the first program executed (the master program in DATABUS) will have its data area loaded and initialized, regardless of whether it is defined as common or NON-common. The entire data area is treated as non-common and loaded.

This change applies to DATASHARE but is not as important as it is for DATABUS.

4. Internal communications now places a logical end of record character (\$LEOR) after the data written to the pipe (DATABUS SEND verb). This allows DATABUS programs to communicate with programs that do pipe I/O as logical records (COBOL, for example). The \$LEOR is detected at the end of a block that is received (RECV verb) and is not placed in the user's variable. Attempting to send a data byte whose value is larger than octal 0200 now results in an EU error.
5. Fixed a problem involving communications that occurred only on the 8800 processor. The code would not think it had a buffer when it did have one.
6. Fixed a problem that could cause CX errors (system flush errors) on dequeuing after a FILEPI or via the FLUSH verb.
7. If either a SEND or RECV times out, COMCLR no longer gives an error.
8. Fixed a bug where after opening a file sometimes a user would get a USER MODE VIOLATION.
9. The user may now trap for a CS 0002 error.

** 1.7.1 **

1. Fixed PRS #1980 - Secondary ISAM files use a different NQDQ token than the primary, resulting in the data file not being properly enqueued.
2. If a FILEPI is issued and one of the files listed is not open, the DBC code was not being scanned off properly to the next instruction if the error was trapped.
3. Fixed PRS #2025 - Inability to open ISAM files because of memory unavailability, even though memory is available.
4. Fixed PRS #2067 - If a program issues a character trap, the trap is not cleared chaining.
5. Fixed PRS #2066 - If a program has issued a character trap, the trap is taken by a time out (*T list control).
- Fixed PRS #1876 - Null entry in *JR field causes form-pointer of zero and logical length of max.
7. Added the NQCHECK option. This option will give an error on any I/O except sequential read that is not done under a FILEPI if opened in SHARE or SHARENF mode. This allows the user to ensure that all his file activity is protected.

8. Fixed PRS #2043 - If the printer off-line message times out the DATABUS interpreter would give an error instead of re-issuing the message.
9. Fixed PRS #2004 - DATABUS gives BX errors on the first FILEPI issued in a program.
10. Fixed PRS# 2107 and 2109 - if a failure occurs on a file open the file is flagged as open even though it is not.
11. Fixed PRS #1957 - The EOS, OVER and LESS flags are not cleared when a *RV list control is encountered in a KEYIN statement.
12. Fixed PRS #2397 - The port hangs when printing and the printer goes off-line.

PROGRAM FILES RELEASED:

DATABUS/CMD Command File
DATABUS/RPM *Release Form*

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: DATAPOLL 1.3

DESCRIPTION: RMS DATAPOLL MASTER

This product provides the user with the ability to communicate with DOS DATAPOLL slave programs.

PURPOSE OF RELEASE: 3 - Adds New Features

SOFTWARE CANCELLED BY THIS RELEASE: DATAPOLL 1.2

SOFTWARE REQUIRED:	RMSNL38	1.7.1
	RMSNL66	1.7.1
	RMSNL86	1.7.1
	RMSNL88	1.8.1
	COMMFAC	1.2
	COM RESIDENT	1.3.1
	CONFIG	1.6

HARDWARE SUPPORTED:

Minimum Memory: 16k
 Communication Devices: 38XX (96K or greater)
 ICA for synchronous Datapoll
 66XX (128K or greater)
 - 9481-3 for synchronous Datapoll
 - 9402 for asynchronous Datapoll
 8600 - MFCA for synchronous Datapoll
 8800 - MFCA for synchronous Datapoll

REVISIONS:

** 1.2 **

- Added Support for 8800.
- Corrected problem with auto-dial.
- Corrected encoding problem.
- Corrected the problem when closing the comm. facility during a transmit data operation.
- Corrected the problem in synchronous and asynchronous line drivers when the slave station misses the ACK-ACK to the transmitted EOT.

- Corrected encoding problem.
 - Modified driver to use configured character timeout value.
 - Modified driver to check for STX received as first character.
- ** 1.3 **
- Added support for 8600.

ERRORS PENDING:

- Configuring a communications device with a name containing a # character causes UCF to abort with a garbaged error message (PRS# 1978)

PROGRAM FILES RELEASED:

DATAPOLL/RFM	*Release Form*
ADPL/ABS	RMS Asynchronous Datapoll Absolute Library
SDPL/ABS	RMS Synchronous Datapoll Absolute Library
DPL/CNFG	RMS DATAPOLL Configuration file
COMM GEN/CHN	RMS DATAPOLL installation chain file

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: DATASHARE 1.7.1

DESCRIPTION: DATABUS INTERPRETER

This program interprets code produced by the DATABUS compiler (DBCMP). It provides for the sharing of data buffers between ports (terminals) and allows memory to be effectively utilized for User Data Area.

PURPOSE OF RELEASE: 3 - Adds new features
 2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: DATASHARE 1.6

SOFTWARE REQUIRED:	DBCMP	1.4
	NODDINIT	1.4
	CONFIG	1.6
	CONFCMPT	1.4.4
	FMTCONT	1.4.4
	MANAGE	1.2

NUCLEUS VERSIONS:	38XX	1.7.1
	5XXX	1.6.1
	6XXX	1.7.1
	86XX	1.7.1
	88XX	1.8.1

HARDWARE SUPPORTED:
 Minimum Memory: 36K

REVISIONS:

** 1.5 **

- Due to the addition of an expanded displayable character set and a more device independent screen control mechanism the object code of some instructions has been changed. All DATABUS programs must be recompiled with DBCMP 1.3 to be run with DATABUS OR DATASHARE 1.5.

- *ESCOFF (ESCAPE OFF) and *ESCON (ESCAPE ON) are new list controls allowed in KEYIN and DISPLAY statements. Programs using octal control characters below 040 (octal) in DISPLAY and KEYIN statements to control display screen, serial printer or foreign device actions must be changed. Those programs which utilize the mnemonic control codes (e.g.*L) and those which do not use values below 040 (octal) do not require any modification. For complete information on the changes required, please reference Update Number 4 September 1981 of the RMS DATABUS User's Guide.

- Tabbing and partial I/O have been added.

- Several verbs and features from the DOS DATABUS language have been implemented.

The logical operations, AND, OR, NOT, and XOR have been added.

The SCAN verb allows searching for the occurrence of one string in another.

The COUNT verb counts the number of effective keystrokes needed to enter the data residing in a list of variables.

The PACK verb appends data from several variables together into one variable.

The UNPACK verb separates data from one variable into several others.

The *PON (Printer ON) and *POFF (Printer OFF) KEYIN and DISPLAY list controls allow control of a serial printer attached to a terminal.

The *LL (write Logical Length) and *PL (write Physical Length) WRITE, WRITAB, UPDATE, and UPDATAB list controls affect the way character string variables are written. Normally, the write starts at the first physical character, continues through the logical length pointed character, and blank fills for any remaining character positions until the end of the variable. For a null variable, all blanks are written. The *LL list control causes the logical string (characters between the formpointer and logical length pointer) to be written with no blank fill. For a null variable, nothing is written. The *PL list control sets the mode back to normal.

- A new open mode, SHARENF has been added which is share no-flush.
- If a ROLLOUT instruction is attempted in DATASHARE, the LESS flag is now set.
- Fixed a bug which locked out an overlay area if a port were shut off while waiting for a semaphore.

8. Some new KEYIN and DISPLAY list controls have been added. *ESON (echo secret on) and *ESOFF (echo secret off) are allowed in KEYIN statements. *ESON causes asterisks ('*') to be echoed on the screen for keyed in characters. *ESOFF cancels the effect of *ESON.
9. A FLUSH verb has been added which allows the user to force buffers for a file to be purged and written to disk. The syntax is FLUSH <FILELIST> where FILELIST is a list of FILES and IFILES. Each FILE or IFILE in the list is flushed.
10. An error in processing the printer off line condition which caused the interpreter to give an error and die has been fixed.
11. An error in FAR which caused an error if the printer were closed and reopened (such as after a release) has been gotten around by a change in the interpreter.
12. Several problems with the EXECUTE verb have been fixed.
13. Fixed a problem with the buffer manager that could cause serious unpredictable results.
14. Octal control values are now allowed in write lists. Octal values in WRITE, KEYIN, DISPLAY, and PRINT statements are now limited to the range 0 to 0177.
15. Documentation Correction: Page 9-20, Update 4, September 1981 of the RMS DATABUS User's Guide. Sections 9.1.3.32 and 9.1.3.33 erroneously reference version 1.6 of the RMS NUCLEUS. The correct reference is to the nuclei released with the RMS 1.6 system release, release 1.5 of the DATASHARE and DATABUS interpreters, and DBCMP release 1.3. The documentation update 5 references the Version numbers correctly.

** 1.6 **

1. Several new KEYIN/DISPLAY list controls have been implemented: *H, *V, *HA, *VA, *HU, *HD, *CURSON, *CURSOFF, *CLICK, *CLICKON, *CLICKOFF, *DSPNW, *DSPW, *VZLON, *ULON, *BLINKON, *SETSWTB, *SETSWLR, *RESETSW, *INSCR, *DELCHR, *INSLIN, *DELLIN, *OPNLIN, *CLSLIN, *ESCHAR, *RTPCHAR, *SCRLFT, and *SCRRIGHT.
2. The LIMIT OF 256 bytes of common data area has been eliminated. There is now no limit on the size of common data area. Common data must still be defined at the beginning of the program, before any non-common data declarations.
3. A change was made in the way common is handled to allow programs to pass error messages which the interpreter places in a variable at the beginning of UDA back to the master program. The user should declare a common variable at least 30 characters long (DIM30) at the beginning of each program, including the master program.

13. Fixed a problem that could cause other ports to hang if one port died while it had control of the overlay control tables or the buffer control tables.

** 1.7.1 **

1. Fixed PRS #1980 - Secondary ISAM files use a different NQDQ token than the primary, resulting in the data file not being properly enqueued.
2. If a FILEPI is issued and one of the files listed is not open, the DBC code was not being scanned off properly to the next instruction if the error was trapped.
3. Fixed PRS #2025 - Inability to open ISAM files because of memory unavailability, even though memory is available.
4. Fixed PRS #2056 - If a program issues a character trap, the trap is not cleared by chaining.
5. Fixed PRS #2055 - If a program has issued a character trap, the trap is taken by a time out (T* list control).
6. Fixed PRS #1876 - Null entry in *JR field causes form-pointer of zero and logical length of max.
7. Added the NQCHECK option. This option will give an error on any I/O except sequential read that is not done under a FILEPI, if file is opened in SHARE OR SHARENF mode. This allows the user to ensure that all his file activity is protected.
8. Fixed PRS #2046 - DATASHARE would close the timer if a port went off line.
9. Fixed PRS #1918 - If a user turns off the port, ANSWER is loaded and executed until such time as something requiring the port (such as KEYIN) is done.
10. Fixed PRS# 2107 and 2109 - If a failure occurs on a file open, the file is flagged as open even though it is not.

Included DATASHARE/CNFG in the product. This is a sample configuration input file. Note that this is not a general purpose configuration file; the user must modify/replace this file in all cases. It serves only as an example.

12. Fixed PRS #2043 - If the printer off-line message times out the interpreter gives an error instead of re-issuing the message.
13. Fixed several circumstances that could cause a port to hang. (PRS#'s 2227,2360,2397,2487)
14. Fixed PRS #2112 - The allocation order of UDA can cause the PCR to be destroyed.

When an untrapped error occurs, the interpreter will place the error message in this variable and return to the master program which can then check the variable to see if a message resides in it. The problem with this method before was that since the variable is declared common in the master program it would never be initialized (a function typically performed by the answer program in a DATASHARE system). The change made to the interpreter is that the first program executed (the master program in DATABUS) will have its data area loaded and initialized, regardless of whether it is defined as common or non-common. The entire data area is treated as non-common and loaded. This change applies to DATASHARE but is not as important as it is for DATABUS.

4. Internal communications now places a logical end of record character (\$LEOR) after the data written to the pipe (DATABUS SEND verb). This allows DATABUS programs to communicate with programs that do pipe I/O as logical records (COBOL, for example). The \$LEOR is detected at the end of a block that is received (RECV verb) and is not placed in the user's variable. Attempting to send a data byte whose value is larger than octal 0200 now results in an EU error.
5. If a port is executing a program with a FILEPI active when a SHUTDOWN is requested from another port or the console, the program will continue until the FILEPI has terminated (either the number of instructions specified in the FILEPI have been executed or a FILEPI 0 is performed) before the SHUTDOWN is granted for that port.
6. Fixed a problem involving communications that occurred only on the 8800 processor. The code would not think it had a buffer when it did have one.
7. Fixed a problem that could cause CX errors (system flush errors) on dequeuing after a FILEPI or via the FLUSH verb.
8. Fixed a problem that could cause other ports to hang if one port died while it had control of the overlay control tables or the buffer control tables.
9. If either a SEND or RECV times out, COMCLR no longer gives an error.
10. Fixed a bug where after opening a file sometimes a user would get a USER MODE VIOLATION.
11. The user may now trap for a CS 0002 error.
12. When the printer goes off line, answers of N to the question "PRINTER OFF-LINE. READY?" no longer makes the port die.

15. Fixed PRS# 2433 - Got around a UFR problem - when bringing up a large number of ports, some of them may be unable to log on to the NQDQ controller and may die.
16. Fixed PRS #1957 - The EOS, OVER and LESS flags are not cleared on a *RV list control in a KEYIN.

PROGRAM FILES RELEASED:

DATASHARE/CMD	Command File
DATASHARE/RFM	Release Form
DATASHARE/CNFG	Configuration File

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: DEFCNFG 1.9

DESCRIPTION: System Configuration Input File for
RMS Release 1.9PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)
3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: All Previous Versions

SOFTWARE REQUIRED:

RMSNL38 1.7.1
RMSNL55 1.6.1
RMSNL66 1.7.1
RMSNL86 1.7.1
RMSNL88 1.8.1
CONFIG 1.6
RMSDEFS/CNFG 1.6

HARDWARE SUPPORTED: Not applicable

REVISIONS:

** 1.9 **

1. Previously this file was released with CONFIG/CMD. This release is now separate from CONFIG.
2. Corrected default assignments for MAGNETIC TAPE, CARD READER, DC150 TAPE.
3. Added support for serial printer on 3800 ICA.

LIMITATIONS:

1. Must be used with RMS System Release 1.9 to configure the NUCLEUS

PROGRAM FILES RELEASED:

DEFCNFG/RFM * Release Form *
DEFINITIONS/CNFG System Configuration File

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: DOSPIPE 1.1

DESCRIPTION: RMS AROGATE INTERFACE

This product is a 3270 interface between RMS and DOS. DOSPIPE converts pipe messages for either a high level language program or the WS3270 program to ACLLU or AC3271B pseudo file request. This interface provides 3270 capabilities under RMS.

PURPOSE OF RELEASE: 0 - New Software Product

SOFTWARE CANCELLED BY THIS RELEASE: NONE

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
5XXX/6XXX PROCESSOR
3800
8600
8800

PROGRAM FILES RELEASED:

DOSPIPE/RFM *Release Form*
DOSPIPE/CMD Command File
DOSPIPE/CNFG Configuration File

ERRLOG/ERREPORT 1.5 page 1

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: ERRLOG/ERREPORT 1.5

DESCRIPTION: Error Counter Log/Report Facility

ERRLOG starts an independent task which produces Error Logging Files (ELF) containing RMS-maintained error counters for resources (disk and communication), disk controllers, and 8800 processor memories. ERRLOG also displays error counters on the workstation. ERREPORT creates error reports from the data contained in an ELF.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: ERRLOG/ERREPORT 1.4

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Minimum Size: 40K

REVISIONS:

** 1.2 **

1. 8800 Memory ERRORS have been implemented.
2. All menus and HELP Screens have been modified.

** 1.3 **

1. ERRLOG now gives the error <file> DOES NOT EXIST when the status file is missing.
2. ERRLOG interactive error counter display no longer zeroes the previous error counter when an invalid item number is issued.
3. ERRLOG task modified to try to recover from an offline status file by repeatedly trying to open it until the user-set task time limit expires.

ERRLOG/ERREPORT 1.5 page 2

4. ERRLOG task modified to acknowledge user status request when the status file is offline.
5. ERRLOG task modified to preserve the first error that occurs.
6. ERPLOG task modified to take status only once after each sampling.
7. ERPLOG task modified to acknowledge user kill request when the status file is offline.
8. ERRLOG modified to get it's task from the currently executing command file.
9. ERPLOG modified to skip a line in the log file after each ERRLOG signon in the menus to respect independent tasking.
10. ERRLOG now picks up net/nodes in order of UET file.
11. ERRLOG now logs errors and activity for controllers \$CK9301,\$CK9310,\$CK1403,\$CK88D1 and their resources.
12. ERREPORT with its new option AVG - -
.gives the specific activity count for each time interval
.also figures each average hour activity count and total average activity
13. ERREPORT now logs the message '** < > OFFLINE **' when a resource,controller or memory bank goes offline during ERRLOG.
14. ERREPORT prints its report directly to a local printer when SLP:L is specified.
15. Fixed bug that lets status FILE OPEN ERROR return thru pipes. Also, if pipes won't open due to timeout, ERRTASK calls SEXIT.
16. No longer terminates when a node goes offline but instead gives an IPL time of Jan 1 1901.
17. Message length verification.
18. Errors will be returned through option 7. Similar to option 11.

19. When Controller goes offline during INFO call, task sets error counters to zero and continues to execute.
 20. When a node has too many resources when ERRLOG begins to build resource table it now sends message to user and only picks up first nine resources and continues execution.
 21. ERREPORT's report with AVG option now fits on 80 character screen.
ERREPORT now does not default to :W environment for its input default file ERRLOG/LOG. ERRLOG searches UET until first occurrence.
- ** 1.4 ****
1. /EXT in option 7 and 11 now displays all 8 characters instead of only three.
 2. Error corrected which caused STARTUP,STATUS and STOP not to work.
- ** 1.5 ****
1. Fixed PRS #1949 - When a node in UET is off line ERRLOG now displays NET/NODE name and continues execution.
 2. Fixed PRS #1959 - VERSIONS now changed to 1.5.
 3. Fixed PRS #1960 - Name for an 70 MB WHIZZIE is available for logging.
 4. PRS # 2123 & 2196 - Release number now shown on internal menu.
 5. PRS # 2181 - Now displays previous message "TOO MANY RESOURCES ON LINE".
 6. PRS # 2187 - Logging time interval now corresponds to main menu status.
 7. PRS # 2188 - Total logging time can be a large number (1000) and now no wrong cycles are reported.
 8. PRS # 2189 - Now user may not enter a nonnumeric first character.
 9. PRS # 2190 - Now beeps for all invalid entries.
 10. PRS # 2191 - If no 8800 nodes, user receives the message none available and is not allowed to enter the display list.
 11. PRS # 2225 & 1813 - Resources, controllers, and 8800 banks can be accessed when a null node name has been used in a standalone system.

12. PRS# 1813 running RMS 1.6 on 8850, ERRLOG unable to find any resources.

LIMITATIONS:

1. A large number of single file resources cause an error message "Error in WRITSEL" to be displayed (PRS #2181).
2. Limited resources are visible. (PRS #2245)
3. When processing a very small log with a VG option ERREPORT may try to divide by zero. (PRS# 2192)
4. Beeps inconsistent with ERROR message on an invalid entry (PRS# 0424, 2437,2448,2449).
5. Time internal entry not validated. (PRS# 2438)
6. Stop option does not delete its pipes. (PRS# 2443)

PROGRAM FILES RELEASED:

ERRLOG/PFM	Program Release Form Print File
ERRLOG/CMD	RMS Object Program for Error Logging
ERREPORT/CMD	RMS Object Program for Error Reporting

DATAPOINT COMPUTER SYSTEMS DIVISION
PROGRAM MAINTENANCE RELEASE FORM
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PRODUCT/VER.REV: ENV 1.3.1

DESCRIPTION: DEFINES AND GAINS ACCESS TO RESOURCES

ENV is the means by which a user defines, then gains access to resources. The ENV command allows the user to create, delete, reorder, display, map, or backup environments.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: ENV 1.3

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Minimum Memory: 35K

REVISIONS:

**** 1.2 ****

1. Description asked for before catalog is created.
2. HELP screen shows command line positions for BKCHN and BKENV.
3. Buffer cleared before re-ask of questions.
4. Resource message displayed.
5. Description record copies with BACKUP option.
6. Use correct length value for HSI in MODIFY.
7. Now FORCE option insert environments even if open errors occur.
8. Bug in BACKUP : (colon) left out of source environment and COPY command.

**** 1.3 ****

1. MODIFY and ID are now mutually exclusive options.
2. Option MAP2 does not prompt for environment being mapped. Instead MAP1 saves env name being mapped and passes it to MAP2.
3. When access file violations occur such as insufficient password clearance the passwords given are written to LOG.
4. Messages converted for international use.
5. Corrected buffer overflow problem.

**** 1.3.1 ****

6. The number of subcatalogs and number of files within a catalog that can be handled is limited by the PCR specification. (PRS# 1923)
7. The text "also on no option" has been removed from the PASS option on the HELP screen. (PRS# 1883)
8. Main signon corrected to show current version. (PRS# 1988)
9. ENV;MAP now works correctly when the environment to be mapped is prompted for. (PRS# 2150)
10. Modified code so that if work file is specified the correct files are specified on the SORT command line. (PRS# 2133)
11. ENV signon in ENV;MAP print file corrected. (PRS# 1988)
12. PRS# 2183: ENV;MODIFY allows a maximum of 20 passwords to be entered. Once the max is entered, the message '-- MAX NUMBER OF PASSWORDS HAVE BEEN ENTERED --' is printed and ENV exits without errors.
13. PRS# 2184: ENV;MAP corrected to run as an independent task.
14. PRS# 2232: The ID option is no longer indented under the MODIFY option on the HELP screen.
15. PRS# 1922: When there is no room in the PCR for the SORT command, the program exits with the message "PCR FULL COMMAND NOT PUSHED ON STACK".
16. PRS# 2231: No change: To allow for page spacing, the number of lines printed is 10 less than the value set by the PCR FORMLGT option. The minimum number of lines printed is 6: 2 lines for the page heading, 3 blank lines and 1 data line. The minimum FORMLGT value allowed with the map option is 16.

17. PRS# 2370: HELP screen reworked for clarity.
18. PRS# 2373: Corrected so that SCANFLS\$ catches erroneous environment names.
19. PRS# 2387: When using the DELETE option with non-disk resources, command aborts with the message "DELETE USED WITH DISK RESOURCES ONLY."
20. PRS# 2426: Screen catalog display corrected.
21. PRS# 2427: Map corrected to handle mapping 32 level HSIs when the blank catalog is mapped.
22. PRS# 2425: When the processor memory is insufficient to handle the map request, the command aborts with the message "PROCESSOR MEMORY INSUFFICIENT TO DO MAP."

LIMITATIONS:

1. ENV; MAP option must specify file specs on the command line in order to run in a CHAIN. These file specs can not be prompted for under CHAIN. (PRS# 2219)
2. Command line handling needs to be evaluated. Effects PRS# 2264, # 2371, and # 2386.
3. Inserting or creating an environment with a NULL NET, NODE and RESOURCE is now implemented, but is not in release 1.9. (PRS# 2388)
4. Correction of the error message when attempting to delete the MASTER (BLANK) catalog is not yet implemented. (PRS# 2456)

PROGRAM FILES RELEASED:

ENV/RPM	*Release Form*
ENV/CMD	Command File

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: FMS 1.4.4

DESCRIPTION: File Management System (FMS)

The File Management System (FMS) is the data management subsystem of RMS for disk devices. It consists of two major subsets: (1) the File Access Routines (FAR) and (2) the File Management Task. FAR is a library of programmer callable routines for managing disk files with or without the FMT (transparent to the caller). The FMT is an independent RMS task, performing as a distributed ARC/RMS system performance by reducing ARC traffic and providing a centrally - controlled buffer pool.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: FMS 1.4.3

SOFTWARE REQUIRED: RMS
MANAGE 1.2 or 1.3
FMTCONT/CMD 1.4.4
CONFGFMT/CMD 1.4.4

HARDWARE SUPPORTED:
Processor: FAR: Any 5500-Compatible processor
FMT: Any 6600-Compatible processor
Minimum Memory: MANAGE 1.3 44K
FMTCONT 1.4.4 12K
CONFGFMT 1.4.4 20K
FMT task 56K

PROGRAM FILES RELEASED:

FMS/RFM	Print file for release form
FAR/REL	FAR Relocatable Object File
FAR/INC	FAR User Inclusion File
FAR/MAC	FAR User Macro Library
FMTCONT/CMD	FMT command library
CONFGFMT/CMD	FMT configuration program
FARCEFS/SRC	FAR Definitions
FARMTAP/REL	FAR managed file traps
FARUTRAP/REL	FAR unmanaged file traps
FMTLOG/CMD	FMT Logging facility
FMTDBG/CMD	FMT Debug facility

REVISIONS:

** 1.4.4 **

1. If an MFD specified more than one possible FMT, and the NET/NODE for each FMT have been specified (ie. not :HUNT), and at least the first FMT does not exist (so a managed open will be forced to try the next FMT in the MFD), then, each managed open will allocate some buffers that will NOT be released. As a result, a series of many opens may exhaust memory, so that an open will eventually fail. This has been corrected in 1.4.4 so that all buffers allocated in a managed open are released. (PRS# 1983)
 2. FMT/ISAM null tree problem: If multiple users were accessing the same ISAM file under the FMT and one user tries to insert a new record after another user has deleted the last record in the file (leaving a null index tree), the user trying to insert would get an error \$ECLIO2? - ISAM INDEX STRUCTURE FAULT. It is possible that this error could also have shown up when the index tree was not null, but not as likely. This error has been corrected. (PRS# 1994)
 3. The FMT controller did a clean abort after an internal error was encountered. Most of the pipes were deleted. (PRS# 1996)
- In the process of solving this and a related bug, a new FMT software debugging tool was developed; FMTDUMP - FMT Dump Print Utility. This program uses an FMT log file to create a printout of the contents of various FMT global variables and tables using the log file memory dump (usually generated by an FMT system abort). Like FMTLOG and FMTDBG, this program is for DATAPOINT internal use only.

LIMITATIONS:

1. Printer-file open has not yet corrected to allow re-opening of a print-device print file.
2. If the user attempts to rewrite the last record of a compressed text file (\$FCSCMPR is set in the FCB flag byte #1) and the number of replacing characters exceeds the number of existing characters in the record, then FMS fails to add the required end of file mark (\$LEOF) and update the corresponding RMS end of file address. This will be fixed in FMS 1.5. It is still suggested, however, that rewriting compressed text files be avoided under all circumstances.
3. When the FMT aborted due to internal error, files with pending EOF changes did not have their EOFs updated. This has been corrected (no SPR). NOTE - This is done AFTER the memory dump has been taken to the log file, so that the results of the FMTDBG & FMTDUMP debugging tools will still show the EOF changes pending.

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: GETARC 1.2

DESCRIPTION: GETARC FILE UTILITY

The GETARC utility will copy and convert DOS/ARC files to RMS.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: GETARC 1.1

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Minimum Memory: 20K

REVISIONS:

** 1.2 **

1. The HELP screen display has been revised.
2. GETARC now scans the filespecs before prompting for information.
3. GETARC now logs properly.
4. GETARC now has a default output environment of blank.
5. GETARC now checks for multiple rim users on the same node. (PRS #1672)
6. GETARC now sets the CHAIN abort flag if an error occurs.
7. GETARC now defaults the input and output file extensions correctly when a binary transfer is requested. (PRS #2175)

LIMITATIONS:

1. If GETARC is used to copy an ENCODED file, REFORMAT must be used on the file before it is DECODED.
2. GETARC does not do space or digit compression. (PRS# 2149 #2396)

PROGRAM FILES RELEASED:

GETARC/RFM	*Release Form*
GETARC/CMD	- Get DOS/ARC file utility

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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UCT/VER.REV: GETDOS 1.3

DESCRIPTION: DOS to RMS Text File Copy

GETDOS copies RMS text files from DOS formatted disks.

PURPOSE OF RELEASE: 2 - Corrects Outstanding Problems

SOFTWARE CANCELLED BY THIS RELEASE: GETDOS 1.2

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Minimum Memory: 25K

REVISIONS:

** 1.2 **

1. Change made that will now allow GETDOS to copy records that are up to 4095 characters long. (PRS# 1467)
2. INC and LEN options no longer accept values > 5 digits. (PRS# 1599)
3. LEN= and INC= specs do not work as documented. The documentation should be updated to reflect the actual results. If LEN or INC is specified without a value, an error message will be given. If LEN= or INC= is specified without a value, the value is assumed to be 0. (PRS# 1600)
4. GETDOS no longer allows entry into debugger. (PRS# 1601)
5. GETDOS now supports the 9310 and 1403 disk devices.

** 1.3 **

1. The HELP screen has been revised.

2. The M[EMBER] option has been added to GETDOS, allowing text files copies to be done on DOS library members.
3. GETDOS now has a signon message.
4. GETDOS now has a default output file environment of blank.
5. GETDOS will now display the input file size.
6. GETDOS will now display a running total of the number of sectors copied so far.
7. GETDOS will now return the correct error message if the user is not on the console.
8. The CHAIN abort flag is now set if an error occurs during GETDOS execution.
9. GETDOS now has a NOCOMP option which will allow text file copies to be done without space or digit compression. (PRS #1821)
10. GETDOS now has a RECSIZE option which allows the user to specify a fixed length record size when the nocomp option is requested.
11. GETDOS will now work on 8800 processor console.
12. GETDOS will now compute the output file increment correctly.
13. The BIN option will now copy files properly.
14. GETDOS allows a one letter abbreviation for the VOL and MEMBER options.
15. The problem with long file copies has been corrected. (PRS #2159)
16. Command line option scan will accept blank as a delimiter. (PRS# 2281)
17. GETDOS will now work properly on a 2.5 MB disk. (PRS # 2241,2252,1949,& 2115)

LIMITATIONS:

1. GETDOS does not check for valid "RECSIZE=" values. Values greater than 4095 are not supported. (PRS #2404)

PROGRAM FILES RELEASED:

GETDOS/CMD	Command File Library
GETDOS/RFM	Print file for release form

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: HASP 1.3

DESCRIPTION: RMS HASP EMULATOR

The RMS HASP emulator emulates the IBM 360/20 HASP workstation. The workstation is used for simultaneous batch data transmission and reception using the multi-leaving protocol.

PURPOSE OF RELEASE: 3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: HASP 1.2

SOFTWARE REQUIRED:

RMSNL66	1.7.1
RMSNL38	1.7.1
RMSNL86	1.7.1
RMSNL88	1.8.1
COM RESIDENT	1.3.1
COMMFAC	1.2
UCF	1.2
CONFIG	1.6

HARDWARE SUPPORTED:

Minimum Memory: 14K
Communication Devices:
38XX (96K or greater)-ICA
66XX (128K or greater) - 9481-3
8600 - MFCA
8800 - MFCA

REVISIONS:

.2 **

1. Changed minimum transmission blocksize from 2 to 100 .
2. Fixed bug in COPNHASP, terminated phone nbr with #LEOR.
3. Fixed 'NUC ERROR I' in close processing.
4. Fixed a bug in CFCS abort processing.

** 1.3 **

1. Added support for 8800/8600.

ERRORS PENDING:

1. Error with phone number in config file (PRS# 1860)
2. Incorrect display for driver information (PRS# 1859)
3. System may hang if +DI is used while transmitting or receiving a file. (PRS# 1907)
4. Transmitting a SIGNON after a SIGNOFF causes 'BUFFER OVERFLOW'. (PRS# 2285)

PROGRAM FILES RELEASED:

HASP/RFM	*Release Form*
HASP/CNFG	RMS HASP configuration file
COMM GEN/CHN	Installation chain file
HASP/ABS	RMS HASP absolute library file

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: IEOS 3.2

PRODUCT DESCRIPTION: Integrated Electronic Office Station

PURPOSE OF RELEASE: Adds New Features

SOFTWARE CANCELED BY THIS RELEASE: IEOS 3.1.1

SOFTWARE REQUIRED: RMS SYSTEM (Version 1.7 or later)

OPTIONAL SOFTWARE: BJT, UNSPOOL

HARDWARE SUPPORTED:

Workstations: 8600, 8200, 3800
Processors: 8800, 8600, 6600, 3800
Minimum Memory: 52K
Disks: All RMS Supported Disks
Printers: All RMS Supported Printers

PROGRAM FILES RELEASED:

COMMON/LIB Library of text for HELP Command
IEOS/CMD IEOS Command Library File
IEOS/RFM Software Release Notification Form

REVISIONS:

** 3.2 **

1. Improves performance.
2. Adds concurrent printing capability. This facility requires an additional 8K of user memory for each concurrent print task.
3. Adds concurrent UNSPOOLING capability using the IEOS Disk Reading Filter and various Printer Writing Filters.
4. Adds AUTOTYPE capability.
5. Adds <command>? and HELP <command> user aides.

6. Adds AIM capability.
7. Adds FORMS WIDTH handling.
8. Adds support for external text files, print files, and IEOS files.
9. Incorporates enhanced 8600 display attributes.
10. Adds support for 3800 workstations.
11. Adds extended command line handling.

LIMITATIONS:

1. RECOVER does not prompt the user before overwriting existing work files. SPR 1528.
2. The primary format display is not wide enough to show particularly long commands such as headers and tabs. SPR 1530.
3. The first attempt to delete a center justified Break command with no text following it may fail. To overcome the problem, reposition the cursor and repeat the delete operation. SPR 1531.
4. When editing justified text, the Editor does not always re-justify properly. To overcome the problem, position the cursor ahead of the text in question and press the Insert key twice. SPR 1532.
5. RECOVER processes to the end of the space allocated to the file if no end of member mark is found. To avoid the problem, use the KBD key to terminate the operation at the appropriate time. SPR 1630.
6. The primary format of a document may be damaged in such a way that RECOVER cannot correct the problem. Editing the recovered document may cause a fatal error. To avoid the problem, use the LIKE keyword in MODIFY. SPR 1903.
7. The first FORMS LPI command after program initialization does not correctly affect concurrent print operations. To overcome the problem, run FORMS LPI a second time. SPR 2008.
8. If a FORMS command is run, an OUTPUT operation is requested on an existing file, and an "N" response is given to the overwrite prompt, an incorrect message is shown. SPR 2009.

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: INDEX 1.4.2

DESCRIPTION: ISAM INDEX CREATION UTILITY

This utility is used to create and re-create an ISAM index for data files. It can also be used to modify the environment information for the datafile.

PURPOSE OF RELEASE: 2 - Corrects Outstanding Problems (bugs)

SOFTWARE CANCELED BY THIS RELEASE: INDEX 1.4

SOFTWARE REQUIRED: RMS NUCLEUS
SORTHARDWARE SUPPORTED:
Minimum Memory: 36K

REVISIONS:

** 1.2 **

1. Added independent task ability

** 1.3 **

1. Duplicate keys when not specified will print out all the duplicates before terminating. (PRS# 1358,1828)
2. Will not do extract options if the index is not created by the INDEX utility.
3. Info option can handle an index not created by the INDEX utility.

** 1.4 **

1. No memory dump on RMS error.
2. No SORT KEY scanning done by INDEX. SORT will validate the SORT string.

9. An AUTOTYPE variable name greater than 12 characters gives an incorrect error message. SPR 2010.
10. Trailing spaces in SEARCH and LOCATE AIM keys are handled differently when they are entered individually as opposed to when they are entered with an operator (+, &, or |). For example: the key "Data" (where "~" represents a space) will be matched in the string "Datapoint" because the significance of the trailing space is lost, but the key "Data~+point" will not match because the space is significant. SPR 2012.
11. Once a concurrent print task has been initiated, it cannot be canceled by the operator. Note that if the printer remains Not Ready for more than about 15 minutes, the task terminates itself. SPR 2061.
12. IEOS downline loads the keycode translation table in 8200 workstations but does not adjust the PCR translation table appropriately. SPR 2103.
13. Operator control over workstation clicking is not supported in this release. SPR 2304.
14. Unspooling to printers other than letter quality printers is not supported because the required Printer Writing Filter is not yet available. To avoid this problem, use OUTPUT ON PRTPFILE, EXIT and SPOOL.

DATAPOINT CORPORATION
OFFICE COMMUNICATIONS SYSTEMS DIVISION
SOFTWARE RELEASE NOTIFICATION

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RELEASE TYPE: Product Maintenance
RELEASE STATE: Final Release
PRODUCT FAMILY/PRODUCT LINE VER.REL.REV: INFOSWITCH/SHARE 4.2.2 (HOST)
RELEASE DATE: April 1, 1982
DESCRIPTION: INFOSWITCH/SHARE
RELEASE MEDIA: Two Cassettes
SOFTWARE CANCELLED BY THIS RELEASE: INFOSWITCH/SHARE 4.2.1 (HOST)
MINIMUM HARDWARE REQUIRED:

Processor/Series: 6600/6601
Memory Size: 60K (Non ARC)
90K (ARC)
Disk: 936X,937X,939X
ISS: 9101-9112
Comm: 9411,9462 (Multi-port)
Printer: 9236 Matrix Printer

RELEASE ITEMS:

	MODEL CODE	DESCRIPTION
Object Media:	20675	Update Cassettes (2)
User's Guide:	50476	Previously Released
Quick Reference Guide:	60899	Previously Released

- ** 1.4.1 **
- Kill KTAG file when null INDEX generated. (PSR #1940)
 - Allow work files to be directed to different physical ENVironments. (PSR #1987)
 - Fixed wrong version being kept in information sector of INDEX. (PSR #2178)
 - Fixed wrong file being sent to SORT as the alternate collating file. (PRS #2172)
- ** 1.4.2 **
- Correct space allocation and EOF for an index created using the X option. (PRS# 2361)

PROGRAM FILES RELEASED:

INDEX/RFM	*Release Form*
INDEX/CMD	Command Library

CORRECTIONS:

- A problem that prohibited the definition of Speed Numbers for site 8 has been resolved.
- PRInt ACCounting options "D" and "E" no longer truncate the two trailing digits when reporting 5-digit Speed Numbers.
- CONvert CALLer has been modified to correctly convert Version 2 or 3 caller id files to the Version 4.2 format.
- An outage condition resulting from delayed speed number disk lookups has been corrected.
- A Parameter File problem involving the "ROUTE INFORMATION (555) CALLS ..." and the "ACCOUNTING DATA TRANSMISSION ...?" has been corrected. Previously, a REvision of one of these options would also revise the other.
- PRInt ACCounting has been modified to correct the appearance of anomalous characters in spooled print files.
- Pause characters within the Route pre-fix digit field are now correctly interpreted by the ISS.
- An internal file structure problem has been corrected in the BUILD commands.
- Several corrections have been incorporated to resolved SHARE-to- CMIS/TDP interface errors.

- The "Overflow Cost" fields posted in files CIDONLIN/TXT, GROUp/TXT, and SUBGROUp/TXT are three significant digits and two decimal places for cents. This field length is sufficient for Caller file; however, if there is heavy overflow use, the Group and Subgroup files will "wrap-around" (from 999.99 to 000.00) if the amount exceeds 999.99 dollars.
- The PRINT and DISPLAY options will not perform correctly with REVISE CALLER.
- REVISE CONFIGURATION clears the usage statistics for that site.
- Local operator (0-) calls are directed to Route 0 regardless of the Route defined within the sites' configuration table.
- REVISE CALLER will not allow a caller's home site number to be changed. During the revision, the new number appears to be accepted when, in fact, it has not been changed in the caller ID disk record. To accomplish a site number change the ID must first be DELETED then DEFINed.
- If REVISE ACCOUNTING is performed immediately after ACCUMULATE ACCOUNTING and the ACDAYPV file contains a sector that ends with a complete record, REVISE ACCOUNTING will not process the remaining records.
- SORT FILE will create a null destination file if the system printer is off-line and the console output buffer is full.
- POST ACCOUNTING will abort after calculating the total cost (Phase I) of the monthly file if the two digits to the right of the first non-numeric digit in the total cost field are zeros.

OUTSTANDING PROBLEMS:

- If an attempt is made to interrupt an "in progress" call on output line types DDD01-DDD15 originated by an INTERRUPTIBLE CALLER, the call in progress is given an interrupt tone and then disconnected. However, no attempt is made to seize the freed output line to process the new call. The new caller (whose caller privileges allowed the interruption) is either given re-order tone or is connected to a DDD00 if available.
- If REVISE ROUTE is performed from a Sequence, the Host screen displays garbled information for the Route; the Route is revised correctly.
- If the Display Key is depressed after all "valid" hold entries have displayed, when performing DISPLAY HOLDING selection 2 (Callback Hold Queues), the Host screen will display garbled information.

SYSTEM FILES RELEASED:

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

NOTE: LICENSE REQUIRED

SHARE VERSION 4.2.2 (HOST)

CASSETTE #1

SHARE/ABS	Share Command
UPDATE/422	Update Chain File
UPDATE/PRT	Update Procedures (MC# 60874)
MAINTUPG/TXT	Maintenance Upgrade Chain
SHAREH/RFM	SHARE 4.2.2 (HOST) Software
	Notification Form

CASSETTE #2

BUICAL/ICM	Share Library Modules 4.2.2
BUIGRO/ICM	
BUIBUB/ICM	
CONCAL/ICM	
DEFSPE/ICM	
DELSPE/ICM	
DISINT/ICM	
DISPAR/ICM	
PRIACCE1/ICM	
PRIACCG/ICM	
PRIACCO/ICM	
PRIACCCO/ICM	
PRIACCS/ICM	
PRIDUM/ICM	
PRIERR/ICM	
PRIPAR/ICM	
REVPAR/ICM	
REVSPE/ICM	

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PRODUCT/VER.REV: LINK 1.4

DESCRIPTION: LINKAGE EDITOR

This product LINKS relocatable modules to produce executable CMDS and relocatable modules.

PURPOSE OF RELEASE: 2 - Corrects problems (bugs)
1 - Improves Performance

SOFTWARE CANCELLED BY THIS RELEASE: LINK 1.3

SOFTWARE REQUIRED: SORT
RMS NUCLEUSHARDWARE SUPPORTED:
Minimum Memory is: 3800/5500 =52k
6000 =56K
8800 =64K

REVISIONS:

** 1.2 **

1. Major changes to PAB table, SYMBOL table, and PROGRAM table organization.
2. Fix put in to make the SYMB option work. (PRS# 1051)
3. Fixed a bug in the 32-bit arithmetic package. allowed file names to begin with a number. (PRS# 1184)
4. Top-of-page alignment for PABS fixed for individual segments of the PAB.

1.3

1. Problem with file name starting with numbers fixed. (PRS# 1184)
2. Problem with patch code fixed. (PRS# 1187)
3. Problem with absolute PAB and absolute transfer addr fixed
4. Ability to produce LOC'd absolute code
5. Ability to produce LOC'd rel code
6. Fixed memory statements that generate patches

LINK 1.4

page 2

PUTARC 1.1

page 2

** 1.4 **

1. Absolute PAB generation fixed.
2. First transfer ADDR used if more than one given.
3. If ENTRY directive used, no duplicate transfer ADDR message. (PRS # 1431)
4. If a segment of a page sensitive PAB ends in the last byte of a page, there is no error in code generation.
5. Page sensitive pab and missing member errors now minor and will only terminate if ERR option given.
6. Correct message now given if file being accessed is busy or protected (READ protected will terminate with the RMS message).
7. FASTLIB algorithm is faster.
8. Faster resolution phase.
9. Speed up in serial inclusion from the same rei library.
10. Common PAB that is also top of page will not force extra page allocation.
11. Keyin command fixed for chain execution. (PRS # 1944)
12. File busy reported as busy, not missing (PRS #1702).
13. When file is busy, the correct file is given (PRS # 1419).

LIMITATIONS:

1. Forward reference to absolute address shifted right is invalid. (PRS #2383)
2. WRITE SL ERROR WHEN SYMB and TABLE options given. (SPR #2153)
3. If EOF in CHAIN file when heading requested, wrong message given. (PRS # 2473)
4. A /TXC file with no *** gives invalid messages (PRS #2090)

PROGRAM FILES RELEASED:

LINK/RFM	*Release Form*
LINK/CMD	Command File

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: PUTARC 1.1

DESCRIPTION: Put RMS file to DOS/ARC file UTILITY

THE PUTARC command runs under RMS and allows the user to transfer files from RMS to DOS via the ARC network providing an interface between the two operating systems.

PURPOSE OF RELEASE: 0 - New Software Product

SOFTWARE CANCELLED BY THIS RELEASE: none

SOFTWARE REQUIRED: RMS Nucleus
ARC 1.7 or later
DOS.D 2.7 or laterHARDWARE SUPPORTED:
Minimum Memory: 30K

LIMITATIONS:

1. PUTARC can only transfer files from RMS to a DOS FP running DOS.D with ARC support.

PROGRAM FILES RELEASED:

PUTARC/RFM	*Release Form*
PUTARC/CMD	PUTARC Command File Library

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: LPS 1.1

DESCRIPTION: 8000 Series Large Program Support

Allows the user to have programs that are up to 960K of procedure division without segmentation.

PURPOSE OF RELEASE: 0 - New Product

SOFTWARE CANCELLED BY THIS RELEASE: None

SOFTWARE REQUIRED: RMS NUCLEUS
CBLLINK/CMD
RMSUFRS/REL

HARDWARE SUPPORTED:
Processor: 8600/8800

REVISIONS:

** 1.1 **

1. A problem with LPS not saving registers on certain conditional Long Jumps has been corrected.
2. A problem with the use of BTR on the 8800 has been fixed.
3. The error codes have been renamed to \$ECLPSn.

LIMITATIONS:

1. Problems occur when a certain type of IF statement, that tests for high values, is used. (PRS# 2237)

PROGRAM FILES RELEASED:

LPS/REL Relocatable library
LPS/RFM ** Release Form **

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: MANAGE 1.3

DESCRIPTION: The RMS Managed File Description Utility Program

PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)
3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: MANAGE 1.2

EXECUTION SUPPORT:

Software: RMS
Hardware:
Processor: Any 5500-Compatible processor
Minimum Size: 48K
Disk: 935X/936X/967X

DETAILED DESCRIPTION:

MANAGE is a utility program of the RMS File Management System (FMS). It is used to create and edit Managed File Descriptions (MFD), the main interface between user programs and FMS. Note that MANAGE 1.3 must be used with FMS 1.3 or greater.

INTERDEPENDENCIES:

The File Access Routines (FAR) of FMS check that the MFD version supplied by MANAGE is valid (current).

REVISIONS:

** 1.3 **

1. PRINT Option - The PRINT option allows the listing of the MFD information to a printer or spool file. The format of the listing is similar to the screens displayed by MANAGE.
2. VERIFY Option - The VERIFY option is used to check if an MFD can be used successfully. A managed open is attempted for the file described by the MFD. If the open is successful, the message, " ==MFD verification successful ==", is displayed. If the open is not successful, the message, "*** Error detected during MFD verification***", is displayed, followed by the error code and message giving the reason for the failure.

PROGRAM FILES RELEASED:

MANAGE/RFM Program Release Form print file
MANAGE/CMD RMS Object Program

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: MINIDOS 1.1

DESCRIPTION: RMS/DOS FP EMULATION

MINIDISK builds a RMS binary file to simulate a DOS.D disk with 1 DOS volume attached.
MINIARC utilizes this file as a DOS volume attached to a DOS file processor, accepts DOS packets, and responds as a real DOS file processor to an application processor.

PURPOSE OF RELEASE: 0 - NEW PRODUCT

SOFTWARE CANCELLED BY THIS RELEASE: None

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
PROCESSOR: 3800/5500/6600/8600/8800

PROGRAM FILES RELEASED:

MINIDOS/RFM *Release_Form*
MINIDISK/CMD Command File
MINIARC/CMD Command File
MINIARC/CNFG Configuration File
MINIDOS/TEXT RMS Text File containing pseudo DOS volume.

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: NQDQ 1.4

PRODUCT DESCRIPTION: FILE LOCK-OUT CONTROLLER

NQDQ provides a mechanism to control the updating of shared files by allowing users of those files to dynamically acquire and release exclusive control of those files.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: NQDQ 1.3

SOFTWARE REQUIRED: CONFIG

HARDWARE SUPPORTED:
Minimum Memory: 28K

REVISIONS:

** 1.2 **

1. Fixed error in buffer management when number of users is greater than 17.
2. Installed a logging facility for debugging.

** 1.3 **

1. "Enqueue granted" now logged when a delayed enqueue request is granted.
2. When running on an 8900 as an independent task, memory is not released while I/O is pending to the log file. This prevents a condition where NQDQINIT would sometimes abort during initialization if logging was enabled.

3. A new option has been added, "LOGSIZE". This option allows the user to specify the size of the log file (in sectors). When this number of sectors is reached, the log file is reused, beginning with sector 0. The maximum (and default) value is 65,535.

4. In conjunction with the above, if the log file uses the maximum number of segments, the space is reused beginning with sector 0. This will occur even if the user specified the LOGSIZE option and that size has not yet been reached.

6. The LOGSIZE option has been added to help screen.

7. A bug was fixed which caused the controller to hang if the following occurred: An enqueue timed out; during the dequeue processing for that user another (or the same) user issued a dequeue request. This dequeue request must transfer to the controller buffer after the timer expires causing the enqueue to time out and before the dequeue processing is complete. Under these circumstances, the controller tries to acknowledge dequeue request to the user who timed out. This causes the controller to hang waiting for the user who timed out to read his private pipe.

** 1.4 **

1. A bug was fixed in logging the "enqueue granted" message for an enqueue which was delayed (not granted immediately). The bug caused the first byte of the FAV for the users private pipe to be overlaid with a \$ES, resulting in "invalid FAV id" on the ensuing notification. (PRS #1941)

PROGRAM FILES RELEASED:

NQDQ/RFM	*Release Form*
NQDQ/INIT/CMD	Command Library
NQDQ/CNFG	NQDQ Config Definitions File

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: PACKGEN 1.4.1

DESCRIPTION: Pack Generation Command

Utility for formatting and structuring disk packs for use under RMS.

PURPOSE OF RELEASE: 1 - Adds New Features
2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: PACKGEN 1.4

SOFTWARE REQUIRED: RMS NUCLEUS
RMSIPLxxxx/RMS IPL BlocksHARDWARE SUPPORTED:
Minimum Memory: 36K

REVISIONS:

** 1.2 **

1. Doesn't die on \$FORMAT call; Puts out message. (PRS# 498)
- DISK ERROR ON FORMAT - CONTINUING.
2. Trap ECSIO58 error on \$FORMAT call as actual fatal error 8800 MMD. (PRS# 498)
3. User requested terminate now exits cleanly instead of error (PRS# 1177)
4. \$ECSIO35 now trapped on \$INFO call so RESOURCE NOT FOUND message given. (PRS# 1176)

** 1.4 **

1. IPL files now have the form RMSIPLxxxx/RMS instead of PACKGEN/xxxx. (PRS# 1176)
2. Warnings given for modifying IPL blocks or resource name on booted drive.

3. GEN option not allowed on the booted drive.

4. Worst case pattern written to disk during lockout check.

** 1.4.1 **

1. Fixed problem where formatting would still be done after an answer of "NO" was given (PRS #2071).
2. No IPL is mentioned for the 939X (MMD) and no IPL file is expected to be present (PRS #2104).
3. PACKGEN now writes to disk before reading during a GEN operation. This solves the problem with writing to "VIRGIN" '9310' packs.
4. There is now a new "WORST CASE" pattern being written to all disk drives.

PROGRAM FILES RELEASED:

PACKGEN/CMD	Library Command File
PACKGEN/RFM	Print file for release form

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: PUTDOS 1.4.1

DESCRIPTION: Copy RMS text file to DOS

PUTDOS copies an RMS file to a local DOS disk when operating from the system console. A binary file is copied with the BIN option causing a sector for sector copy with the first 3 bytes of each sector over-stored with DOS verification controls. The default is text file copy. The file is copied to DOS only if the VOL=<valid> option is used, otherwise, all DOS volumes containing the output file are displayed. Output sub-directory specification is possible with the SUR=<subdirectory> option.

PURPOSE OF RELEASE: 2 - Correct outstanding problems
3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: PUTDOS 1.3

SOFTWARE REQUIRED: RMS Nucleus
DOS local disk

HARDWARE SUPPORTED:
Minimum Memory: 28K
Peripherals: Locally attached DOS disk

REVISIONS:

** 1.3 **

1. Messages replacement support added.
2. DOS disks generated from cassette supported.

** 1.4 **

1. DOS.D on a 9310 disk is now supported.
2. DOS.G on a 1403 disk is now supported.

3. Although the default output subdirectory is "SYSTEM", the SUR option now supports "SUR=SYSTEM". (PRS# 1733)
4. The signon and help screen are modified to document the BIN option.
5. DOS logical volumes not containing boot blocks are considered to be ungenerated and are not scanned. (PRS# 1830)

** 1.4.1 **

1. Support for DOS.D 2.7 67MB disk spinning on an 8800 added.
2. Additional support for DOS 2.7 added.

LIMITATIONS:

1. To run PUTDOS on an 8800 may require new microcode on the sequencer board of the CP. This is the same fix as for the block transfer reverse instruction. EO 27280, FCO P88XX-001 9/25/81. (Revision level "L" sequencer board)
2. PUTDOS does not write the backup directory entry to (DOS.D 2.7) 2.5 disks. (PRS# 2340)

PROGRAM FILES RELEASED:

PUTDOS/RFM *Release Form*
PUTDOS/CMD - PUTDOS Command File Library

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PRODUCT/VER.REV: REPAIR 1.4

DESCRIPTION: Disk Pack Repair Command

REPAIR is an interactive utility that validates and corrects system tables for disk resources. REPAIR can range from a very simple maintenance operation to a very complex recovery process, depending on the circumstances under which it is run.

PURPOSE OF RELEASE: 2 - Corrects problems
3 - Adds New Features

SOFTWARE CANCELLED BY THIS RELEASE: REPAIR 1.3

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Memory: Dependent on Disk size
Minimum: 76K

REVISIONS:

** 1.3 **

1. \$FFMTUTX and \$FFMTMFD support added. (PRS # 1166)
2. International message considerations completed.
3. A file which is unreadable in either the master or copy FDT, but not in both, is now fixed to discard the FDT if the operator does not want to copy the good one over the bad one. This is significant if the unreadable FDT is also unwriteable, as is the case if the sector is glitched instead of the disk being out of alignment.
4. Modified to ignore an FDT by operator request when scanning for more files. (PRS # 1165)
5. All errors occurring while REPAIR is handling its own errors now reset the error flag after servicing the error.
6. File Control Blocks (FCB) set-up by the first read on the disk are now set up prior to the first read in case the first sector accessed is unreadable. (PRS# 1110)

7. Lockout segments overlay modified to continue after an allocation conflict.
8. Undelete files routine rewritten to allow several differently-named files to be undeleted.

** 1.3 **

1. REPAIR of the booted drive now supported.
2. Sector read routines modified to terminate REPAIR with an error message when the repaired resource goes off-line. (PRS# 1909)
3. If the user does not want to update the L.O.S.T sector after modification then an error message is displayed before termination. (PRS# 1911)
4. PASCAL integer input is now trapped to re-prompt when a non-integer is input. (PRS# 1908)
5. A bad hash code in the IDENT sectors now properly rewrites the invalid IDENT sector. (PRS # 1910)

** 1.4 **

1. REPAIR of a single drive system now supported.
2. OVERFLOW option implemented for 128K single drive systems.
3. HELP screen and HELP option added.
4. REPAIR now completes successfully after a duplicate file name is resolved.
5. Command line file specification and option scanning now by RMS convention. (PRS# 2050)
6. OVERFLOW option now allowed on other than 8600 processors.

LIMITATIONS:

1. The OVERFLOW option is not operational with an MMD on an 8900 processor. (PRS# 2129)
2. REPAIR will not run stand-alone loaded from a 9301 tape cartridge. (PRS# 1905)

PROGRAM FILES RELEASED:

REPAIR/CMD Library Command File
REPAIR/RFM Print File For *Release Form*

RMS SYSTEM RELEASE

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PRODUCT/VER/REV: RMS 1.9

PRODUCT DESCRIPTION: RESOURCE MANAGEMENT SYSTEM

RMS is an operating system which provides multiprogramming via workstations. The keyboard/display unit may use any peripheral provided the user has appropriately authorized security access.

PURPOSE OF RELEASE: To correct software problems. Add large program support for COBOL, add new utility PUTARC, and add Communications ON 8800 (HASP) and 8600 (2780/3780,HASP and DATAPOLL).

SOFTWARE REPLACED BY THIS RELEASE: RMS SYSTEM RELEASE 1.8

EXECUTION SUPPORT:

HARDWARE SUPPORTED:

PROCESSOR: 3800/5500/6000/6600/6640/8600/8800
 WORK STATION: 3500, 8200, 8220, RMS Workstation (8200 Version 2.3)
 DISK: 1401, 930X, 9310, 935X, 936X, 937X, 939X
 COMM: 9402, 9462, 9481, 8809
 PRINTER: 923X, 926X, 928X, 96XX, 925X, 9214
 MAG. TAPE: 9556, 9558, 9584, 9586
 CARD READER: 9504
 RIM: 9483

DOCUMENTATION:

User's Guide	Model Code	Current Version/Update	Level
*COBOL	50233		
RMS COMMUNICATIONS	50542	Update 1	
UCF	50548	Update 1	
2780/3780	50549	Update 1	
HASP	50550	Version 1	
DATAPOLL	50551	Update 1	
COMMFAC	50552	Update 1	
INSTALL. & CONFIG.(COMM)	50623	Update 1	
*WS3270/DOSPIPE	50650	Version 1	
DOS ARC User's Guide	50691		
DOS AC3271B User's Guide			
DOS ACMLU User's Guide			
*DATABUS	50589	Update 6	
*DATASHARE	50590	Update 3	
RMS (VOL. I, II, III, IV)	50545	N/A	
*RMS VOLUME I	50553	Update 6	
*RMS VOLUME II	50554	Update 7	
ENV	50556	Update 6	
INFO	50557	Update 6	
CREATE	50594	Version 1	
EDIT	50559	Update 5	
BUILD	50550	Update 6	
CAT	50561	Update 6	
COPY	50562	Update 4	
LIST	50563	Update 6	
RENAME	50564	Update 4	
SORT	50565	Update 4	
INDEX	50566	Update 6	
REFORMAT	50567	Update 6	
DUMP	50568	Update 3	
DELETE	50569	Update 4	
*TAPUTIL	50570	Update 7	
CHAREEDIT	50571	Update 6	
ENCODE	50572	Version 1	
*GETDOS	50573	Update 7	
PUTDOS	50574	Update 6	
CTFORMAT	50635	Update 6	
BACKUP	50634	Version 1	
DCTAPE	50636	Update 6	
*GETARC	50648	Update 7,8	
*PUTARC	50680 (vol II)	Update 7,8	
*MINIDOS	50657 (vol II)	Update 7	
*RMS VOLUME III	50555	Update 7	
CONFIG	50575	Update 6	
PACKGEN	50576	Update 6	
*REPAIR	50577	Update 7	
PCR	50578	Version 1	
NODQ	50579	Update 6	
BJF	50558	Update 6	
FMS	50591	Update 1	
CHANGE	50580	Version 1	

DOCUMENTATION: -- CONT.

User's Guide	Model Code	Current Version/Update	Level
SECURE	50581	Version 1	
LOG	50582	Update 5	
ERRLOG	50583	Update 4	
LINK	50584	Update 6	
LIB	50585	Update 6	
STARTUP	50633	Update 5	
*BACKUP9301	50649	Update 7	
RMS VOLUME IV	50597	Update 2	
CHAIN	50586	Update 3	
SYSTEM SOFTWARE INSTALL & CONFIG.	50624	Update 2	
RMS RPGPLUS User's Guide	50609	Version 1	
*Bibliography	50677	Version 1	
*RMS Quick Reference Guide	61017	Version 1, Revised for 1.9	
*8630/9301, Software Installation Guide	50655	Version 1, Revised for 1.9	
*IEOS/RMS Simplified User's Guide	50660	Version 1	

* Updated since last release.

Reprinted volumes including all updates through 1.9 available with 1.9:

RMS UG, Vol. II
 RMS UG, Vol. III
 RMS UG, Vol. IV
 RMS DATABUS/DBCMP

Model Code Software:

9829 RMS Data Communications
 9830 RMS Nucleus and Utilities
 9831 RMS DATABUS
 9832 RMS DATASHARE
 9835 RMS Nucleus, Utilities, and DATASHARE
 9836 RMS COBOL
 9837 RMS RPG
 9853 RMS IEOS

Program Files Released: (* - Denotes changed since last release)

Model Code 9829 - Data Communications:

Product	Version	Files Released	Minimum Memory (bytes)	Description
*27803780	1.3	2780/ABS 3780/ABS 2780/CNFG 3780/CNFG	14K (1)	IBM 2780/3780 Emulator 2780 Library 3780 Library 2780 Configuration File 3780 Configuration File
		COMM GEN/CHN (2) 27803780/RFM		Installation Chain File Release Form
COMMFAC	1.2	COMMFAC/CMD COMMFAC UPD/CHN COMMFAC/CNFG COMMFAC/RFM	8K (1)	Communications Facility Command Library Update Chain File Configuration File Release Form
*COM_RESIDENT	1.3.1		(1)	Nucleus Resident Module
		CAFRES_3800/REL CAFRES_5500/REL CAFRES_6600/REL CAFRES_8600/REL CAFRES_8800/REL CAFRES_GEN/CHN COM_RESIDENT/RFM		3800 Resident Library 5500 Resident Library 6600 Resident Library 8600 Resident Library 8800 Resident Library Installation Chain File Release Form
*DATAPOLL	1.3	ADPL/ABS SDPL/ABS DPOL/CNFG COMM GEN/CHN (2) DATAPOLL/RFM	16K (1)	DATAPOLL Master Async. Datapoll Library Sync. Datapoll Library Configuration File Installation Chain File Release Form
*HASP	1.3	HASP/ABS HASP/CNFG COMM GEN/CHN (2) HASP/RFM	14K (1)	IBM HASP Emulator HASP Library Configuration File Installation File Release Form

Model Code 9829 - Data Communications: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
UCF	1.2	UCF/CMD UCF/CNFG UCF/RFM UCF_UPD/CHN	24K 16K -	User Comm. Facility (DATAPOLL only) Command Library Configuration File Release Form Installation Chain File
*MINIDOS	1.1	MINIARC/CMD MINIDISK/CMD MINIARC/CNFG MINIDOS/TEXT MINIDOS/RFM	24K	Command File Command File Configuration File RMS text file containing pseudo DOS volume Release Form
*DOSPIPE	1.1	DOSPIPE/CMD DOSPIPE/CNFG DOSPIPE/RFM	16K	Command File Configuration File Release Form
*WS3270	1.1	WS3270/CMD WS3270/CNFG WS3270/RFM		Command File Configuration File Release Form

(1) - Program size is configuration dependent.
 (2) - The Chain file is listed only once but will process any of the products.

Model Code 9830 - Nucleus and Utilities:

Product	Version	Files Released	Minimum Memory (bytes)	Description
*BACKUP	1.2	BACKUP/CMD BACKUP/RFM	32K	Disk Backup Utility Command Library Release Form
*BACKUP9301	1.2	BACKUP9301/CMD BACKUP9301/RMS BACKUP9301/RFM	12K	Backup and Restore the 9301 Disk Command Loader Backup/Restore Utility Release Form
BJF	1.1	BJF/CMD BJF/CNFG CCFBJF/CNFG BJF/RFM	60K	BJF Central Controller Command Library Configuration File Sample Config. File Release Form
BUILD	1.4	BUILD/CMD BUILD/RFM	36K	Text File Build Utility Command Library Release Form

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Model Code 9830 - Nucleus and Utilities: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
*CAT	1.3.1	CAT/CMD CAT/RFM	24K	Catalog Utility Command Library Release Form
CHAIN	1.4	CHAIN/CMD CHAIN/RFM	36K	Command Chaining Utility Command Library Release Form
CHANGE	1.1	CHANGE/CMD CHANGE/RFM	56K	File Security Utility Command Library Release Form
CHAREEDIT	1.3	CHAREEDIT/RFM CHAREEDIT/CMD CHARLOAD/CMD CHARLOAD/SYS CHARFNT/SYS	36K 36K	Character Editor Utility Release Form Edit Command File Load Command File Character Font Database Character Font Database
CONFIG	1.6	CONFIG/CMD RMSDEFS/CNFG CONFIG/RFM	64K	RMS Configurator Command Library Constant Definitions Release Form
CONNECT	1.2	CONNECT/CMD CONNECT/RFM	4K	BJF System Utility Command Library Release Form
CONSOLE	1.2	CONSOLE/CMD CONSOLE/RFM	20K	BJF Console Utility Command Library Release Form
COPY	1.2	COPY/CMD COPY/RFM	28K	File Copy Utility Command Library Release Form
CREATE	1.3	CREATE/CMD CREATE/RFM	24K	File Create Utility Command Library Release Form
CTFORMAT	1.2	CTFORMAT/CMD CTFORMAT/RFM	32K	8800 Tape Formatter Command Library Release Form
DCTAPE	1.2	DCTAPE/CMD DCTAPE/RFM	36K	Magnetic Tape Utility Command Library Release Form

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Model Code 9830 - Nucleus and Utilities: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
*DEFPCNFG	1.9	DEFINITIONS/CNFG DEFPCNFG/RFM		System Configuration Input File System Configuration Input File Release Form
DELETE	1.2	DELETE/CMD DELETE/RFM	24K	File Deletion Utility Command Library Release Form
DUMP	1.1	DUMP/CMD DUMP/RFM	24K	File Dump Utility Command Library Release Form
EDIT	1.2	EDIT/CMD EDIT/RFM	40K	Text Editor Command Library Release Form
ENCODE	1.2	ENCODE/CMD ENCODE/RFM	16K	File Encode/Decode Utility Command Library Release Form
*ENV	1.3.1	ENV/CMD ENV/RFM	36K	Environment Manipulator Command Library Release Form
*ERRLOG	1.5	ERRLOG/CMD ERRREPORT/CMD ERRLOG/RFM	40K 40K	Error Logger and Reporter Error Logging Utility Error Reporting Utility Release Form
EXECUTE	1.2	EXECUTE/CMD EXECUTE/CNFG EXECUTE/RFM	28K	BJF System Utility Command Library Configuration File Release Form
*FMS	1.4.4	FMTCONT/CMD FMTLOG/CMD FMTDBG/CMD CONFGFMT/CMD FAR/INC FAR/MAC FAR/REL FARCDIFS/SRC FARMTRAP/REL FARUTRAP/REL FMS/RFM	40K 16K 12K 20K	File Management System FMT Controller FMT Logging Facility FMT Debug Facility FMT Configurator FAR Inclusion File FAR Macro Library FAR Relocatable Library FAR Definitions FAR Managed File Traps FAR Unmanaged File Traps Release Form

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Model Code 9830 - Nucleus and Utilities: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
*GETARC	1.2	GETARC/CMD GETARC/RFM	20K	DOS to RMS File Copy Command Library Release Form
*GETDOS	1.3	GETDOS/CMD GETDOS/RFM	25K	DOS to RMS File Copy Command Library Release Form
*INDEX	1.4.2	INDEX/CMD INDEX/RFM	36K	ISAM File Utility Command Library Release Form
INFO	1.3	INFO/CMD INFO/RFM	28K	Info Utility Command Library Release Form
LIB	1.4	LIB/CMD LIB/RFM	36K	File Library Utility Command Library Release Form
*LINK	1.4	LINK/CMD LINK/RFM		Linkage Editor Command Library Release Form *Minimum memory is processor dependent; see the release form for additional information*
LIST	1.4	LIST/CMD LIST/RFM	32K	File List Utility Command Library Release Form
LOG	1.4	LOG/CMD LOG/RFM	20K	Workstation Logging Utility Command Library Release Form
LRIO	1.2	LRIO/REL LRIO/HAC LRIODEF/SRC LRIOWP/DEF LRIO/RFM		Logical Record I/O System Relocatable Library Macro Library Fixed Definitions Workpage Definitions Release Form
MANAGE	1.3	MANAGE/CMD MANAGE/RFM	48K	FMS System Utility Command Library Release Form
*NQDQ	1.4	NQDQINIT/CMD NQDQ/CNFG NQDQ/RFM	28K	File - Lock-out Controller Command Library Configuration File Release Form

Model Code 9830 - Nucleus and Utilities: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
*PACKGEN	1.4.1	PACKGEN/CMD PACKGEN/RFM	36K	Disk Generation Utility Command Library Release Form
PCR	1.2	PCR/CMD PCR/RFM	16K	PCR Item Manipulator Command Library Release Form
*PUTARC	1.1	PUTARC/CMD PUTARC/RFM	30K	DOS/ARC File Utility Command Library Release Form
*PUTDOS	1.4.1	PUTDOS/CMD PUTDOS/RFM	28K	RMS to DOS File Copy Command Library Release Form
REFORMAT	1.3	REFORMAT/CMD REFORMAT/RFM	36K	File Reformat Utility Command Library Release Form
RENAME	1.2	RENAME/CMD RENAME/RFM	20K	File Rename Utility Command Library Release Form
*REPAIR	1.4	REPAIR/CMD REPAIR/RFM	76K	Disk Repair Utility Command Library Release Form
*RMS	1.9	RMS/RFM		RMS System Release Release Form
RMSCOMMAND	1.3	RMSCOMMAND/RMS RMSCOMMAND/RFM	16K	RMS Command Interpreter Command Library Release Form
RMSDLL	1.6	RMSDLL/RMS RMSDLL/RFM		CPU Down Line Loader Command Library Release Form
RMSIPLC10	1.4	RMSIPLC10/RMS RMSIPLC10/RFM	128K	M10 disk IPL blocks Command Library Release Form
RMSIPLCTG	1.4	RMSIPLCTG/RMS RMSIPLCTG/RFM	56K	CTG disk IPL blocks Command Library Release Form
RMSIPLF01	1.1	RMSIPLF01/RMS RMSIPLF01/RFM	128K	F10 disk IPL blocks F10 disk IPL blocks Release Form

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Model Code 9830 - Nucleus and Utilities: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
RMSIPLM10	1.4	RMSIPLM10/RMS RMSIPLM10/RFM	56K	M10 disk IPL blocks Command Library Release Form
RMSIPLM20	1.4	RMSIPLM20/RMS RMSIPLM20/RFM	128K	M134 disk IPL blocks Command Library Release Form
RMSIPLM25	1.4	RMSIPLM25/RMS RMSIPLM25/RFM	56K	M25 disk IPL blocks Command Library Release Form
RMSIPLM67	1.4	RMSIPLM67/RMS RMSIPLM67/RFM	56K	M67 disk IPL blocks Command Library Release Form
RMSIPL88	1.5	RMSIPL88/RMS RMSIPL88/RFM	256K	8800 IPL blocks Command Library Release Form
*RMSNL38	1.7.1	RMSNL38/RMS RMSNL38/RFM	24K	RMS 3800 Nucleus Command Library Release Form
*RMSNL55	1.6.1	RMSNL55/RMS RMSNL55/RFM	24K	RMS 5500 Nucleus Command Library Release Form
*RMSNL66	1.7.1	RMSNL66/RMS RMSNL66/RFM	24K	RMS 6600 Nucleus Command Library Release Form
*RMSNL86	1.7.1	RMSNL86/RMS RMSNL86/RFM	24K	RMS 8600 Nucleus Command Library Release Form
*RMSNL88	1.8.1	RMSNL88/RMS RMSNL88/RFM	28K	RMS 8800 Nucleus Command Library Release Form

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Model Code 9830 - Nucleus and Utilities: (continued)

Product	Version	Files Released	Minimum Memory (bytes)	Description
*RMSUFRS	1.7	RMSUFRS/REL UFR/MAC RMS/MAC UFRCDFFS/SRC RMSCDFFS/SRC RMSMESSAGES/RMS RMSUFRS/RFM		RMS User Function Routines UFR Relocatable Library UFR Macro Library RMS Macro Library UFR Definition File RMS Definition File Message Members Release Form
SECURE	1.2	SECURE/CMD SECURE/RFM	32K	File Security Utility Command Library Release Form
SORT	1.3	SORT/CMD SORTLIB/REL SORT/RFM	32K	File Sort Utility Command Library Relocatable Library Release Form
SPOOL	1.2	SPOOL/CMD SPOOL/RFM	32K	BJF System Utility Command Library Release Form
STARTUP	1.1	STARTUP/CMD STARTUP/RFM	32K	Startup Utility Command Library Release Form
SUBMIT	1.2	SUBMIT/CMD SUBMIT/RFM	32K	BJF System Utility Command Library Release Form
*TAPEUTIL	1.4.1	TAPEUTIL/CMD TAPEUTIL/RFM	36K	Tape And Cassette Utility Command Library Release Form
*UNSPPOOL	1.3	UNSPPOOL/CMD UNSPPOOL/CNFG UNSPPOOL/RFM	36K	BJF System Utility Command Library Configuration File Release Form

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Model Code 9831 - DATABUS:

Product	Version	Files Released	Minimum Memory (bytes)	Description
*DATABUS	1.7.1	DATABUS/CMD DATABUS/RFM	32K	DATABUS Interpreter Command Library Release Form
DBCMP	1.4	DBCMP/CMD DBCMP/RFM	36K	DATABUS Compiler Command Library Release Form

Model Code 9832 - DATASHARE:

Product	Version	Files Released	Minimum Memory (bytes)	Description
*DATASHARE	1.7.1	DATASHARE/CMD DATASHARE/CNFG DATASHARE/RFM	36K	DATASHARE Interpreter Command Library Configuration File Release Form
DBCMP	1.4	DBCMP/CMD DBCMP/RFM	36K	DATABUS Compiler Command Library Release Form

Model Code 9835 - Nucleus, Utilities, and DATASHARE:

See files listed under Model Codes 9830 and 9832

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Model Code 9836 - COBOL:

Product	Version	Files Released	Minimum Memory (bytes)	Description
*COBOL	2.1	COBOL/CMD COBOLIB/REL COLTASK/REL CBLDEBUG/CMD CBLDBG38/CMD	56K 12K 12K	Command Library Runtime Library Function Key Library Runtime Debugger Runtime Debugger - 3800 only
		CBLLINK/CMD CBLOVLS/REL		Linkage Editor Runtime Overlays, Relocatable Release Form
		COBOL/RFM CBLOVL/LIB		COBOL Runtime Open Overlay Absolute
*LPS	1.1	LPS/REL LPS/RFM		LPS Relocatable Library Release Form
FIORMS	1.1	FIORMS/REL FIORMS/RFM		RMS Fast I/O Library Relocatable Library Release Form

Model Code 9853 - IEOS

Product	Version	Files Released	Minimum Memory (bytes)	Description
IEOS	3.2	IEOS/CMD IEOS/RFM COMMON/LIB	52K	Command Library Release Form

RESTRICTIONS:

Refer to Program Release Forms.

Model Code 9837 - RPG

Product	Version	Files Released	Minimum Memory (bytes)	Description
*RPGPLUS	1.2	RPG/CMD RPGOLIB/REL RPGLINK/CMD RPGOVLS/REL RPGOVLY/LIB RPGPREP/CMD	56K	Command Library Runtime Library Linkage Editor Runtime Overlays Messages and Overlays Source Code Entry Program Release Form
		RPGPLUS/RFM		Release Form

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DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: RMSNL38 1.7.1

DESCRIPTION: RMS 3800 NUCLEUS

RMSNL38 is a member of the family of Datapoint's Resource Management System (RMS) operating systems. It directly controls local file handling, local peripheral I/O, local task scheduling, plus participates in both incoming and outgoing remote file handling and peripheral control via Datapoint's ARC network.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)
3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: RMSNL38 1.6

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
Minimum Memory: 56K
Processor: 3800
Peripherals: Magnetic Tape
Local Printer
Card Reader
Rim

REVISIONS:

** 1.3 **

- Files opened by more than 15 users will no longer cause remote connection failures when closed.
- The printer driver now sets the printer's "WRITE-PROTECTED" status bit if the printer goes offline.
- The key-ahead buffer has been extended to 64 characters.

** 1.4 **

- A new system call (\$TASK) has been added to allow a program with security level 9 running on the console to terminate an independent task. A future utility will require this system call.
- Various internal changes have been made for code optimization, speed enhancement, etc.

** 1.5 **

- 3800 console driver performance improved.
- Added WSIO control functions.

** 1.6 **

- A timing bug in the magnetic tape driver has been fixed which caused the tape to infrequently hang or misread records.
- The generic control codes \$WSCR, \$WSLF, and \$WSFF have been added to the workstation codes to cause a serial printer attached to an RMS workstation to perform a carriage return, linefeed, and formfeed. In addition, they perform the CR, LF, (but not FF) functions on the workstation or console screen itself.
- The nucleus now gives an initialization error for any CONFIG/AUTO information imbedded in old nucleus configuration files.

** 1.7 **

- A nucleus error "M" will no longer occur if all available memory is allocated and the last allocation was to the system table. (PRS #1943)
- A RIM driver bug which caused "REMOTE CONNECTION FAILURE" if a certain IPB error occurred has been fixed. (PRS #2096)
- The console no longer clicks on the upstroke of function keys and/or KEYBOARD and DISPLAY keys.
- The 3800 display will no longer occasionally display ASCII nulls (the cursor block character) when erasing to end of line or end of frame. (PRS #1251)
- Minor changes were made to the mag tape driver to prevent "OPERATION TIMED OUT" and "HARD RESOURCE ERROR" faults from occurring as often.
- The card reader driver will no longer cause a nucleus error "I" when used.
- The ICA port on the 3800 will now support a serial printer.

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: RMSNL55 1.6.1

DESCRIPTION: RMS 5500 NUCLEUS

RMSNL55 is a member of the family of Datapoint's Resource Management System (RMS) operating systems. It directly controls local file handling, local peripheral I/O, local task scheduling plus participates in both incoming and outgoing remote file handling and peripheral control via Datapoint's ARC network.

PURPOSE OF RELEASE: 2 - Correct outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: RMSNL55 1.5

HARDWARE SUPPORTED:

Minimum Memory: .56K
 Processor: 5500
 Disk: 935X/936X/937X/939X
 8200 RMS WORKSTATION FIRMWARE LEVEL: 2.3
 8220 RMS WORKSTATION FIRMWARE LEVEL: 1.1
 Peripherals: 9462 Multiport Adaptor
 Magnetic Tape
 Local Printer
 Card Reader
 Cassette
 Rim

REVISIONS:

** 1.3 **

- Files opened by more than 15 users will no longer cause remote connection failures when closed.
- 8200 firmware with WP repeat key feature (version 2.3) will now work with RMSNL55.
- The printer driver now sets the printer's "WRITE-PROTECTED" status bit if the printer goes offline.
- The key-ahead buffer has been extended to 64 characters.

** 1.4 **

- Sub-screen capability has been added to the MPCA driver.
- Generic WSIO control codes have been added to control sub-screen actions, character/line insertion, etc.
- Various internal changes have been made for code optimization, speed enhancement, etc.
- A new system call (\$TTASK) has been added to allow a program with a security level 9 running on the console to terminate an independent task. A future utility will require this system call.

** 1.5 **

- A timing bug in the magnetic tape driver has been fixed which caused the tape to infrequently hang or misread records.
- The generic control codes \$WSCR, \$WSLF, and \$WSFF have been added to the workstation to perform a carriage return, linefeed, and formfeed. In addition, they perform the CR, LF, (but not FF) functions on the workstation or console screen itself.
- The workstation drivers now support the 8220 terminal as an RMS workstation.
- A cursor-verify operation has been added before the insert/delete character function to ensure that the cursor is in the proper place before the function is performed.
- The nucleus now gives an initialization error for any CONFIG;AUTO information imbedded in old nucleus configuration files.

** 1.6 **

- A nucleus error "M" will no longer occur if all available memory is allocated and the last allocation was to the system table. (PRS #1943)
- A RIM driver bug which caused "REMOTE CONNECTION FAILURE" if a certain IPB error occurred has been fixed. (PRS #2096)
- The console no longer clicks on the upstroke of function keys and/or KEYBOARD and DISPLAY keys.
- Minor changes were made to the mag tape driver to prevent "OPERATION TIMED OUT" and "HARD RESOURCE ERROR" faults from occurring as often.
- The card reader driver will no longer cause a nucleus error "I" when used.

** 1.6.1 **

- Ports configured as 3600s will now ignore "sub-window reset" and "reset video mode" if such commands are issued. (PRS# 2311)

LIMITATIONS:

- Multiple-drive single-controller magnetic tape configurations are not supported.

PROGRAM FILES RELEASED:

RMSNL55/RMS Command File Library
 RMSNL55/RFM *Release Form*

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: RMSNL66 1.7.1

DESCRIPTION: RMS 6600 NUCLEUS

RMSNL66 is a member of the family of Datapoint's Resource Management System (RMS) operating systems. It directly controls local file handling, local peripheral I/O, local task scheduling plus participates in both incoming and outgoing remote file handling and peripheral control via Datapoint's ARC network.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: RMSNL66 1.6

HARDWARE SUPPORTED:

Minimum Memory: 56K
 Processor: 6000/6600
 Disk: 935X/936X/937X/939X
 8200 RMS WORKSTATION FIRMWARE LEVEL: 2.3
 8220 RMS WORKSTATION FIRMWARE LEVEL: 1.1
 Peripherals: 9462 Multiport Adaptor
 Magnetic Tape
 Local Printer
 Card Reader
 Cassette
 Rim

REVISIONS:

- ** 1.3 **
- Files opened by more than 15 users will no longer cause remote connection failures when closed.
 - 8200 firmware with WP repeat key feature (version 2.3) will now work with RMSNL66.

3. The printer driver now sets the printer's "WRITE-PROTECTED" status bit if the printer goes offline.

4. The key-ahead buffer has been extended to 64 characters.

** 1.4 **

- Sub-screen capability has been added to the MPCA driver.
- Generic WSIO control codes have been added to control sub-screen actions, character/line insertion, etc.
- Various internal changes have been made for code optimization, speed enhancement, etc.
- A new system call (\$TASK) has been added to allow a program with a security level 9 running on the console to terminate an independent task. A future utility will require this system call.

** 1.5 **

- If more than 255 characters are displayed in a WSIO string, a cursor reposition command is no longer inserted every 256 characters. This eliminates the occurrence of cursor repositionings not coded in the user's program.
- The insert/delete character and open/close line WSIO functions now properly use the current cursor position as their starting point.

** 1.6 **

- A timing bug in the magnetic tape driver has been fixed which caused the tape to infrequently hang or misread records.
- The generic control codes \$WSCR, \$WSLF, and \$WSFF have been added to the workstation codes to cause a serial printer attached to an RMS workstation to perform a carriage return, linefeed, and formfeed. In addition, they perform the CR, LF, (but not FF) functions on the workstation or console screen itself.
- The workstation drivers now support the 8220 terminal as an RMS workstation.
- The nucleus now gives an initialization error for any CONFIG/AUTO information imbedded in old nucleus configuration files.

** 1.7 **

- A nucleus error "M" will no longer occur if all available memory is allocated and the last allocation was to the system table. (PRS #1943)
- A RIM driver bug which caused "REMOTE CONNECTION FAILURE" if a certain IPB error occurred has been fixed. (PRS #2096)
- The console no longer clicks on the upstroke of function keys and/or KEYBOARD and DISPLAY keys.
- Up to 24 ports may now be configured for the 6600 MPCA. (PRS #2118)
- The card reader driver will no longer cause a nucleus error "I" when used.
- Minor changes were made to the mag tape driver to prevent "OPERATION TIMED OUT" and "HARD RESOURCE ERROR" faults from occurring as often.

** 1.7.1 **

- Ports configured as 3600s will now ignore "sub-window reset" and "reset video mode" if such commands are issued. (PRS# 2311)

LIMITATIONS:

- Multiple-drive single-controller magnetic tape configurations are not supported.

PROGRAM FILES RELEASED:

RMSNL66/RMS Command File Library
 RMSNL66/RFM *Release Form*

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: RMSNL86 1.7.1

DESCRIPTION: RMS 8600 NUCLEUS

RMSNL86 is a member of the family of Datapoint's Resource Management System (RMS) operating systems. It directly controls local file handling, local peripheral I/O, local task scheduling, plus participates in both incoming and outgoing remote file handling and peripheral control via Datapoint's ARC network.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems (bugs)

SOFTWARE CANCELLED BY THIS RELEASE: RMSNL86 1.6

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:

Processor: 8600
 Minimum Memory: 128K
 Disk: 1401/1403/9301/9310
 8200 RMS WORKSTATION Firmware Level: 2.3
 8220 RMS WORKSTATION Firmware Level: 1.1
 Peripherals: Serial Printer
 9301 Cartridge Tape

REVISIONS:

** 1.4 **

- Bugs fixed in keyin translate table.
- Bug fixed in incoming file handler.
- 9310 disk driver updated to run on interrupt level 0.
- Name field for 9301 disk driver (IN ARV) corrected.
- Drive number field for 9310 disk drive (IN ARV) corrected.

** 1.5 **

1. 8600 console driver performance improved.
2. Bugs were fixed in MPCA driver and RIM driver.
3. Fixed bug in 10MB disk driver to handle more than one drive.
4. If more than 255 characters are displayed in a WSIO string, a cursor reposition command is no longer inserted every 256 characters. This eliminates the occurrence of cursor repositionings not coded in the user's program.
5. The insert/delete character and open/close line WSIO functions now properly use the current cursor position as their starting point.

** 1.6 **

1. The generic control codes \$WSCR, \$WSLF, and \$WSFF have been added to the workstation codes to cause a serial printer attached to an RMS workstation to perform a carriage return, linefeed, and formfeed. In addition, they perform the CR, LF (but not FF) functions on the workstation or console screen itself.
2. The workstation drivers now support the 8220 terminal as an RMS workstation.
3. The nucleus now gives an initialization error for any CONFIG/AUTO information imbedded in old nucleus configuration files.

** 1.7 **

1. A nucleus error "M" will no longer occur if all available memory is allocated and the last allocation was to the system table. (PRS #1943)
2. A RIM driver bug which caused "REMOTE CONNECTION FAILURE" if a certain IPB error occurred has been fixed. (PRS #2096)
3. The console no longer clicks on the upstroke of function keys and/or KEYBOARD and DISPLAY keys.
4. The maximum seek error retry count has been increased from two to eight on the C10 disk.
5. A hardware buffer pointer in the F01 disk driver was not initialized properly and caused disk sectors to be written skewed within a track; it is now fixed.
6. A timeout within the M20 disk driver used during error recovery was increased from 5 to 8 seconds to correspond with worst-case timings.
7. An infinite loop in the M20 disk write error recovery routine has been fixed. (PRS #2065)

8. PACKGEN will no longer hang in an infinite loop during the initialization of the F01 diskette system tables. (PRS #2065)
9. The "M20 WIK" and "M20 ITO" errors have been fixed in the M20 driver.

** 1.7.1 **

1. Ports configured as 3600s will now ignore "sub-window reset" and "reset video mode" if such commands are issued. (PRS# 2311)
2. Issuing an insert or delete character command to the console with the terminating cursor position outside of the current sub-screen window will now cause the proper error message to be received.
3. Ports configured as 8200s or 8220s will now properly handle a roll up or a roll down command if the sub-screen window is one line long and less than 80 characters.
4. The serial printer will no longer drop characters if it goes off-line due to out-of-paper. (PRS# 2366)
5. The console will no longer display a line of garbage characters if the display key is used to pause a listing for a long time while other tasks are running. (PRS #2343)

LIMITATIONS:

1. Only one F01 disk controller with up to two F01 drives is supported.
2. The PRINTER driver currently will not allow the user to configure baud rates for a KDS printer. (PRS# 2228)

PROGRAM FILES RELEASED:

RMSNL86/RMS	Command File Library
RMSNL86/RFM	*Release Form*

DATAPoint COMPUTER SYSTEMS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

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PRODUCT/VER.REV: RMSNL88 1.8.1

DESCRIPTION: RMS 8800 NUCLEUS

RMSNL88 is a member of the family of Datapoint's Resource Management system (RMS) operating systems. It directly controls local file handling, local peripheral I/O, and local task scheduling, plus participates in both incoming and outgoing remote file handling and peripheral control via Datapoint's ARC network.

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: RMSNL88 1.7

HARDWARE SUPPORT:

Hardware:

Processor: 8800
 Minimum Memory: 256K
 Disk: 939X
 8200 RMS Workstation Firmware Level: 2.3
 8220 RMS Workstation Firmware Level: 1.1
 Peripherals: Multiport Imod
 Rim Imod
 Printer
 Magnetic Tape
 Card Reader
 DC 150 Cassette Tape

REVISIONS:

** 1.4 **

1. The disk driver wrote extra sectors if a write error caused a sector rewrite. Now only the faulty sector is rewritten.
2. The WP repeat-key feature is now implemented for the 8800 system console.

** 1.5 **

1. Sub-screen capability has been added to the console and MPCA drivers.
2. A serial printer driver has been added to provide system printer capability using MPCA port(s).
3. The nucleus now runs with interrupts enabled in kernel mode; this enhances the speed of the DC150 cassette tape.
4. Generic WSIO control codes have been added to control sub-screen actions, character/line insertions, etc.

** 1.6 **

1. If more than 255 characters are displayed in a WSIO string, a cursor reposition command is no longer inserted every 256 characters. This eliminates the occurrence of cursor repositionings not coded in the user's program.
2. The insert/delete character and open/close line WSIO functions now properly use the current cursor position as their starting point.

** 1.7 **

1. The generic control codes \$WSCR, \$WSLF, and \$WSFF have been added to the workstation codes to cause a serial printer attached to an RMS workstation to perform a carriage return, linefeed, and formfeed. In addition, they perform the CR, LF, (but not FF) functions on the workstation or console screen itself.
2. The workstation drivers now support the 8220 terminal as an RMS workstation.
3. A timeout has been added to the serial printer driver to cause an off-line indication to be given after 30 seconds of printer unavailability.
4. The PP MPCA driver has been enhanced to provide 64 characters of key-ahead capability and a much faster display rate.
5. The telephone answering sequence of the PP MPCA driver has been fixed to properly handle subsequent redials after the first user dial-in has completed its call.
6. A timing bug in the magnetic tape driver has been fixed which caused the tape to infrequently hang or misread records.
7. A cursor-verify operation has been added before the insert/delete character function to ensure that the cursor is in the proper place before the function is performed.

8. A long-standing BUG in the 8800 disk driver was found and corrected. If a great number of parameter-not-set disk errors occurred during one I/O operation, the PP stack would overflow and cause either machine lockup or fatal nucleus error Ds or Is.

The nucleus now gives an initialization error for any CONFIG/AUTO information imbedded in old nucleus configuration files.

** 1.8 **

1. A nucleus error "M" will no longer occur if all available memory is allocated and the last allocation was to the system table.
2. A RIM driver bug which caused "REMOTE CONNECTION FAILURE" if a certain IPB error occurred has been fixed.
3. The nucleus will no longer hang when a Datastation attached to a task is displaying data and its task is killed.
4. The \$WSGETCH call in \$WSIO will now return and off-line indication if it is called when the user's workstation is off-line.
5. A long-standing memory allocation bug has been fixed which would occur if all memory in the 8800 was allocated.
6. \$WSIO has been fixed to properly handle a user's WSIO string residing in based memory.
7. The eight ports on a second MPCA IMOD will now properly answer and hang up a telephone modem.
8. The serial printer driver will now indicate printer off-line if I/O is done to a printer which is configured but is not physically connected to an MPCA IMOD port.
9. The numeric keyin nucleus change for the DATABUS/DATASHARE *RV list control has been implemented.

10. The DC150 cassette tape driver has been changed to correctly trigger SYNC HUNT when reading and writing tape blocks.
11. Choosing the "automatic terminal configuration" mode for 8800 MPCA configurations will now properly allow sub-windowing to be used on 8200 and 8220 terminals. (PRS #2069)
12. The 8220 terminal's number pad characters now echo properly from a 8800 MPCA port. (PRS #2122)
13. A problem in the 8800's disk IMOD driver causing an incorrect "HARD RESOURCE ERROR" abort has been fixed.
14. Minor changes were made to the mag tape driver to prevent "OPERATION TIMED OUT" and "HARD RESOURCE ERROR" faults from occurring as often.
15. The card reader driver will no longer cause a nucleus error "I" when used.

** 1.8.1 **

1. Ports configured as 3600s will now ignore "sub-window reset" and "reset video mode" if such commands are issued. (PRS# 2311)
2. A Datastation which is switched off and on quickly will now always trigger an off-line indication in the task to which it is attached.
3. Even parity will now be used in the WSIO driver if even parity is configured, and odd parity will be used if odd is configured; they were formerly reversed. (PRS #2223 and #2339)
4. 3600's attached to an MPCA will now work.

LIMITATIONS:

1. Multiple-drive single-controller magnetic tape configurations are not supported.
2. The DC150 tape is supported with only a disk driver, the 8800 console driver, and the DC150 driver configured; DC150 tape operation is not guaranteed with RMSNL88 1.7.

PROGRAM FILES RELEASED:

RMSNL88/RMS Command File Library
RMSNL88/RFM Print file for release form

DATAPoint COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

NOTE: LICENSE REQUIRED

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PRODUCT/VER.REV: RMSUFRS 1.7

DESCRIPTION: Relocatable System Subroutine Library

RMSUFRS/REL is a relocatable library of utility routines to perform many of the common tasks required to operate in the RMS environment.

PURPOSE OF RELEASE: 3 - Adds new features

SOFTWARE CANCELLED BY THIS RELEASE: RMSUFRS 1.6

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:
5500-Compatible Instruction Set

REVISIONS:

** 1.5 **

1. Existing routines documented:

RMSMSG\$
UNPACK\$
DIV3BY3\$
DIV6BY3\$
SCANWRD\$

2. New entry points and routines added:

GETCHNS
GETCSTK\$
GETCHTOS
GETCSTOS
BIGBCP\$

3. New progs added by separating independent routines

LBADD\$
SETABTF\$
RUN\$
CHAININ\$
LOGGING\$
LOGSET\$

** 1.6 **

1. OPEN\$ sidesteps failure caused by \$SECURE bug.
2. \$DEBUG now leaves all registers unchanged.
3. \$PFMTWPF file format added.
4. BC Error codes now returned by ENVINS\$
ENVDEL\$, ENVLOC\$, ENVPEEL\$.
5. DOPDASS\$ has been upgraded to support the 10MB cartridge disk (9310) and the 1MB flexible diskette (1403).
6. Macro: \$INC24P [*] LOC,VAL
Similar to \$INC24. If an asterisk (*) is prefixed to LOC, the X register is loaded with LOC>8. Otherwise, all registers remain unchanged. Uses paged INCI instructions.
7. Macro: \$CLEAR LOC,LEN,VAL
If VAL is specified, sets up a call to WIPEBTAS.
If VAL is unspecified, sets up a call to WIPEBT\$.
LOC=\$HLRP ==> Use current contents of HL for address.
LEN=\$BCRP ==> Use current contents of BC for length.
VAL=\$SAR ==> Use current contents of A for fill value.
8. ERMSG\$ has been fixed so that it no longer loses part of its message.
9. ENVFNMD\$ has been changed to ENVFNMDM\$ to be consistent with all other UFR PROG names. The entry point was originally correct, with a \$.

** 1.7 **

1. Bug in NQDQBLD\$ fixed. Different hashed node names resulted if the UET specified null node or local node or if one UET entry specified net name and another did not.
2. Added error messages for LPS COBOL.
3. Added error messages for FMS.

LIMITATIONS:

1. A call to ERRMSG\$, or RMSMSG\$ followed by a call to PUTNOTE\$ can generate an invalid \$WSIO string. PRS #2291
2. Memory limitation of 80 bytes before CI logs you off. PRS #1998 ,1856
3. Does not handle generic file specifications with the (-) sign correctly. (PRS# 2319)
4. The value of \$PFMTAIM is incorrect. (PRS# 2476)
5. LBGTLN\$ uses the <x> register and wipes out bytes in the 010000 page.

PROGRAM FILES RELEASED:

RMSUFRS/RFM	*Release Form*
RMSUFRS/REL	Relocatable UFR Library
UFRCDIFS/SRC	UFR Assembly Inclusion File
UFR/MAC	UFR Assembly Macro Library
RMSMESSAGES/RMS	Message Library --- Updated to include UFR messages
RMS/MAC	RMS Assembly Macro Library
RMSCDEFS/SRC	RMS Assembly Inclusion Library

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: RMS RPGPLUS 1.2

DESCRIPTION: RMS RPGPLUS Compiler

RMS RPGPLUS is DATAPOINT's RPGII (Report Program Generator) programming language. It is used for business data processing.

PURPOSE OF RELEASE: 2 - Corrects Outstanding Problems (Bugs)

SOFTWARE CANCELLED BY THIS RELEASE: RPGPLUS 1.1

EXECUTION SUPPORT:

	Compilation	Object Execution
Software:		
	RMS	RMS
	RMSUFRS/REL	
	LRIO/REL	
	FAR/REL	
Hardware:		
Processor:	6600/3800/8800/8600	6600/3800/8800/8600
Minimum Memory:	96K (Hardware)	96K (Hardware)
	64K (User task)	48K (User task)
Maximum Typical:	268K (User task)	84K (User task)
Disk:	All supported by RMS	All supported by RMS
Printer:	Local	Local
Magnetic Tape:	No	Local
Card Reader:	No	Local

ENHANCEMENTS:

1. Command files produced on disk by RPGLINK are now considerably smaller.

RPGPLUS 1.2

page 2

RPGPLUS 1.2

page 3

2. RPG object programs now link at 010000 giving an additional 8K of space for programs.
3. RPG programs using files containing large records should now run faster. Programmers can specify additional buffers on the F card for further performance improvement.

REVISIONS:

1. MOVE and MOVEL run-time no longer produce an error message when an alphanumeric field is moved to numeric one. (PRS# 1684)
2. The length of the special field PAGE can be changed now. (PRS# 1581)
3. RPGPREP will allow an N to be put in column 16 of the Header line. (PRS# 1683)
4. (PRS# 1395) A problem with table look up has been fixed.
5. A problem caused by some, but not all, control fields being selected by PRR indicators has been fixed.
6. The RPGPLUS compiler's Q (append to a print file) option has been fixed to work with newer versions of RMS. (PRS# 1679,1989)
7. The word LIOCS has been deleted from those messages it appeared in. (PRS# 1597)
8. RPG object programs now only append to print files when the file is specified on the F card to be an Append file. (PRS# 1709)
9. The error message for duplicate records in ISAM files now contains the file name where the duplicate occurred. (PRS# 1685)
10. When running an RPG program under BJJ and an error condition occurs, the program is now aborted. (PRS# 1708)
11. There is no longer a problem with MATCHING RECORDS at last record. (PRS# 1394)

DOCUMENTATION CHANGES:

1. The option to produce a cross-reference of generated object code has been changed from X to Y.
2. A cross-reference of the source code can now be obtained by specifying the option X on the command line.
3. Compile-time error message 413 (MULTIPLY-DEFINED TAG OR SUBROUTINE NAME) is now generated when the same symbol appears more than once as the operand of a TAG or a BGSF instruction.
4. Compile-time error message 414 (UNDEFINED TAG OR SUBROUTINE NAME) is now generated as appropriate.

5. The RPGPREP prompt for File continuation lines has been updated.
6. The RPGPLUS compiler now has a Q option to append listings to a print file.
7. Number of buffers per file may now be specified on the F card in columns 47-48, up to 16 buffers may be given.

LIMITATIONS:

1. RPGPREP duplicates the source program if the program is scanned and not updated. (PRS# 1985)
2. RPGLINK cannot Queue to a printer. (PRS# 1990)
3. The HELP screen for RPGLINK specifies the wrong command. (PRS# 2234)
4. RPG does not have a HELP screen. (PRS# 2235)
5. Variable record length Isam files currently do not work. (PRS# 2254)
6. Using a field to CHAIN into a file that contains that field nulls the field. (PRS# 2391)
7. SETLL does not accept keys that are not present in the file. (PRS# 2392)

PROGRAM FILES RELEASED:

RPG/CMD	RPGPLUS Compiler
RPGOLIB/REL	RPGPLUS runtime library
RPGOLY/LIB	RPGPLUS overlay library
RPGPLUS/RFM	RPGPLUS pre-release form
RPGLINK/CMD	RPGPLUS linkage editor
RPGOVLS/REL	RPGPLUS runtime open overlays
RPGPREP/CMD	RPG program preparation program

DATAPOINT COMPUTER SYSTEMS DIVISION

SYSTEM RELEASE FORM

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SYMBOL/VER.REV: S1500 3.2

DESCRIPTION: 1500 Software System

PURPOSE: C - Adds new features (Enhancements)

RELEASE MEDIA: Single-Sided Single Density Diskette
Single-Sided Double Density Diskette
Double-Sided Double Density Diskette

SOFTWARE CANCELLED BY THIS RELEASE: S1500 3.1

EXECUTION SUPPORT:

Software: None

Hardware:

Processor: 1500/1550/2150
Minimum Size: 32K
Printer: 9231/9235
Disk: 14XX/15XX/93XX

RELEASE ITEMS: MODEL CODE RELEASE
Program Media: 40291 5 SS/SD Diskettes
Program Media: 40464 2 SS/DD Diskettes
Program Media: 40456 2 DS/DD Diskettes

DETAILED DESCRIPTION:

The 1500 Software System, S1500 3.2, Model Code 40291, consists of five diskettes containing the following Datapoint released programs.

Diskette 1 of 5
DOS.H 2.6.1 1500 Disk Operating System
S1500/RFM 1500 Release Form

Diskette 2 of 5
LINK15 1.2 1500 Linking Editor for Relocatable Modules
LIBSYS15 1.3 System Library Maintenance Utility
CHARIN15 2.1 International Character Set Generator

DB15 2.4 DATABUS Interpreter
JOB15 3.1 Concurrent Job Loader
PRINT15 3.1 Concurrent Print Program

Diskette 3 of 5
DBCMP15 3.1 DATABUS Compiler
DCDFMT15 1.4 Diskette Converter
DPS15M 4.1 DATAPOLL Synchronous Disk Master Program
DPS15S 4.1 DATAPOLL Synchronous Disk Spooling Program
FCOPY15 1.1 1550 Inter-Density Diskette File Copy
UNITRM15 1.5 Universal Terminal Emulator

Diskette 4 of 5
CC378015 2.2 CONCURRENT 3780 Emulator
DS1500 1.1 1500 DATASHARE

Diskette 5 of 5
CCDP15 4.1 CONCURRENT DATAPOLL Programs
CC278015 2.2 CONCURRENT 2780 Emulator

The 1500 Software system, S1500 3.2, Model Code 40464, consists of two diskettes containing the following Datapoint released programs.

Diskette 1 of 2
DOS.H 2.6.1 1500 Disk Operating System
LIBSYS15 1.3 System Library Maintenance Utility
JOB15 3.1 Concurrent Job Loader
PRINT15 3.1 Concurrent Print Program
S1500/RFM 1500 Release Form
CC378015 2.2 CONCURRENT 3780 Emulator

Diskette 2 of 2
CHARIN15 2.1 International Character Set Generator
FCOPY15 1.1 1550 Inter-Density Diskette File Copy
DS1500 1.1 1500 DATASHARE
DBCMP15 3.1 DATABUS Compiler
DCDFMT15 1.4 Diskette Converter
DPS15M 4.1 DATAPOLL Synchronous Disk Master Program
DPS15S 4.1 DATAPOLL Synchronous Disk Spooling Program
UNITRM15 1.5 Universal Terminal Emulator
CCDP15 4.1 CONCURRENT DATAPOLL Programs
DB15 2.4 DATABUS Interpreter
CC278015 2.2 CONCURRENT 2780 Emulator
LINK15 1.2 1500 Linking Editor for Relocatable Modules

The 1500 Software system, S1500 3.2, Model Code 40456, consists of two diskettes containing the following Datapoint released programs.

Diskette 1 of 2
DOS.H 2.6.1 1500 Disk Operating System
LIBSYS15 1.3 System Library Maintenance Utility
CHARIN15 2.1 International Character Set Generator
FCOPY15 1.1 1550 Inter-Density Diskette File Copy
JOB15 3.1 Concurrent Job Loader
PRINT15 3.1 Concurrent Print Program
S1500/RFM 1500 Release Form
CC378015 2.2 CONCURRENT 3780 Emulator

Diskette 2 of 2
DS1500 1.1 1500 DATASHARE
DBCMP15 3.1 DATABUS Compiler
DCDFMT15 1.4 Diskette Converter
DPS15M 4.1 DATAPOLL Synchronous Disk Master Program
DPS15S 4.1 DATAPOLL Synchronous Disk Spooling Program
UNITRM15 1.5 Universal Terminal Emulator
CCDP15 4.1 CONCURRENT DATAPOLL Programs
DB15 2.4 DATABUS Interpreter
CC278015 2.2 CONCURRENT 2780 Emulator
LINK15 1.2 1500 Linking Editor for Relocatable Modules

REVISIONS:

- LINK15 1.2 has been added.
- Updated DOS.H 2.6 to DOS.H 2.6.1.

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM SPECIAL RELEASE FORM

NON-SUPPORTED SOFTWARE

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SYMBOL/VER.REV: SNAPSHOT A.A

DESCRIPTION: ARC Snapshot Interpretation Package

PURPOSE: D - New Software Package

RELEASE MEDIA: Cassette
TOTAL SIZE: 744 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: none

EXECUTION SUPPORT REQUIRED:

Software: DOS.D 2.7
ARC 1.7.1
FASTSORT 2.2
Hardware: 1800/3800/5500/6000/6600/8600
Size: 48K
Disk: 932X/935X/937X/939X

5500/6600 Partition Supervisor Compatible: No

RELEASE ITEMS: MODEL CODE RELEASE
User's Guide: 50685 21 pages
Program Media: 90016 2 DMF Cassettes

DETAILED DESCRIPTION:

SNAPSHOT consists of four programs intended to interpret the binary snapshot log file that can be produced by ARC 1.7.1. The programs convert the binary file information into a series of reports and sorted text files suitable for further processing by application-specific programs. These reports allow detailed analysis of the operation of a DOS ARC system.

PROGRAM FILES RELEASED:

SNAPSHOT/CHN Chain file to execute interpretation
 MAP/CHN Chain file to perform volume mapping
 MAPGEN/CMD Volume map processing program
 TOTALS/CMD Binary file translation program
 VOLCNTS/CMD Counts by volume program
 APCNTS/CMD Counts by AP program
 SNAPSHOT/RFM Release form
 PSCLER01/ABS Language run-time package
 PSCLIO01/REL Language run-time package

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: T310DG86 1.1
 DESCRIPTION: 9310 Disk Diagnostic for Use on an 8600 Processor
 PURPOSE: A - Corrects Problems
 RELEASE MEDIA: Cassette
 TOTAL SIZE: 120 Sectors
 SOFTWARE CANCELLED BY THIS RELEASE: None

EXECUTION SUPPORT:

Software: DCS.D 2.7

Hardware:
 Processor: 8600
 Minimum Size: 64K
 Disk: 9310

5500/6600 Partition Supervisor Compatible: No

RELEASE ITEMS:	MODEL CODE	RELEASE
User's Guide:	50684	25 Pages
Program Media:	20852	1 DMF Cassette

DETAILED DESCRIPTION:

T310DG86 is a diagnostic program for testing the 9310 Disk drive from an 8600 processor. The diagnostic may be used for isolating failures in the disk drive or as a proof of performance test.

REVISIONS:

** 1.1 **

Resolves all SPR'S

PROGRAM FILES RELEASED:

T310DG86/RFM Program Release Form print file
 T310DG86/CMD Command Object File

DATAPOINT DISTRIBUTED SYSTEMS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: T310DG86 1.2

DESCRIPTION: Diagnostic Program for 9301 Storage Subsystem

PURPOSE: A - Corrects problems (bugs)

RELEASE MEDIA: 20MB Tape Cartridge
 TOTAL SIZE: 168 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: T310DG86 1.1

EXECUTION SUPPORT:

Software: RMS

Once the program is loaded, it will require RMS no more. The diagnostic is written on tape in load and go form.

Hardware:
 Processor: 8600
 Minimum Size: 64K
 Disk: 9301
 Printer: 9231

5500/6600 Partition Supervisor Compatible: No

RELEASE ITEMS:	MODEL CODE	RELEASE
User's Guide:	50687	Previously Released
Program Media:	20854	1 20MB LGO Tape Cartridge

DETAILED DESCRIPTION:

Diagnostic program for 9301 storage subsystem.

Revisions:

** 1.1 **

1. Bottom line of screen will not flash on execution of Tests 160, 161, 162, and 170.
2. The problem that causes the program to execute spooling/despooling operations only on drive 0 is fixed.
3. The problem that causes the program not to report a tape soft error is fixed.
4. Problems in disk/spooling LED level 2 diagnostics are corrected.
5. User's Guide updated.
6. The problem that causes all read errors to be ignored when the verify data option is disabled is fixed.
7. Instructions for key conventions to continue from the BUFFER DUMP mode were corrected.
8. Parameters for cylinder, track, and sector ranges were added to the interpreter menu.
9. Progress messages were added to the operator abort sequence indicating when the abort sequence was initiated and when it completes.
10. Lower case 'o' was changed to an upper case 'O' in the interpreter menu.
11. Warning messages have been added to the test menu for those tests that ignore disk limits entered by the user.
12. Status output for level 2 diagnostics was corrected.
13. Added corrections to help screen.

** 1.2 **

1. Repaired object code only.

LIMITATIONS :

1. CAUTION: When Test #2 - (SIO RAM Check) is aborted by the operator, the results are unpredictable.
2. CAUTION: Before using Tests #201 - (Disk Single Track Write) or #203 - (Disk Track Long Write), check the User's Guide to determine on which track the test will write.

PROGRAM FILES RELEASED:

T310DG86/CMD Executable Command File
T310DG86/RFM Software Release Form

PROGRAM RELEASE FORM

NOTE: LICENSE REQUIRED

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PRODUCT/VER.REV: TAPEUTIL 1.4.1

DESCRIPTION: TAPE AND CASSETTE UTILITY

TAPEUTIL is a system utility that dumps/loads RMS disk files to/from magnetic tape, cassette, the 8800 cartridge, or the 8600 cartridge

PURPOSE OF RELEASE: 2 - Corrects outstanding problems

SOFTWARE CANCELLED BY THIS RELEASE: TAPEUTIL 1.4

SOFTWARE REQUIRED: RMS NUCLEUS

HARDWARE SUPPORTED:

Minimum Memory: 36K
Peripherals: 5500/5500 Integral Cassette
8800 Integral Cartridge
Magnetic Tape Units
8500 Cassette Cartridge

REVISIONS:

** 1.2 **

1. If the tape resource (RES=) is not specified on the command line, TAPEUTIL does a \$INFO call and searches for a magtape, a cassette, and finally, the 8800 cartridge.
2. TAPEUTIL now has a VERIFY option which compares files on tape with those on disk. VERIFY may be specified with the DUMP and BACKUP options or VERIFY may be specified alone.
3. Output from the INFO option may now be directed to a print file.
4. When DUMPing and LOADing multitape files, on end of tape, the user may either mount the next tape and enter * or specify an alternate resource of the same kind and subkind.
5. Some bugs were corrected in BACKUP and RESTORE which were causing TAPEUTIL to die with a file access violation when it attempted to open certain password protected files.

** 1.3 **

1. Modified so that TAPEUTIL will work on local disks. (PRS# 1496)
2. Modified code so that when TAPEUTIL attempts to open a file and fails because of a FILE ACCESS VIOLATION or FILE IN USE ERROR, TAPEUTIL no longer attempts to close the file. (PRS# 1592)
3. Added 9301 disk and tape support.

* 1.4 **

1. Fixed a bug that occurred when user attempted to BACKUP a catalog with no initial access.
2. Modified TAPEUTIL so that files are written and read in blocks of 15 sectors instead of 8.
3. Changed name of work file to TAPEDIRFILE/WORK.
4. TAPEUTIL will prompt user if tape is offline.
5. Fixed bug in multi-tape VERIFY. (PRS #2355)
6. When user loads a file from tape and does not specify an environment, TAPEUTIL will default to the blank environment instead of :W. (PRS# 1585)
7. Fixed a bug that occurred when the tape directory was greater than 256 sectors.
8. Modified code so that files to be verified are opened in read mode.
9. TAPEUTIL prompted the user with the message "THIS IS AN UNRECOGNIZED TAPE FORMAT. CONTINUE?" when the user attempted to write to an 8500 cartridge that was neither a SCRATCH tape nor an IPL tape. This prompt has been removed.
10. If during TAPEUTIL execution, no files are specified which may be DUMPed to tape, TAPEUTIL will exit without prompting for owner ID.
11. If the user specifies a generic file specification, either on the command line or interactively, TAPEUTIL will display the message, "NO FILES WERE FOUND THAT MATCH GENERIC SPEC".

** 1.4.1 **

1. Fixed a bug that caused TAPEUTIL to die with a \$OPENENV error when the user attempted to backup an environment whose catalog name was greater than 8 characters. (PRS# 2035, # 2139).
2. Modified code so that TAPEUTIL will handle a blank 8600 cartridge.
3. Modified code so that if sector 0 of an 8800 cartridge does not contain valid data, TAPEUTIL will rewrite the sector.
4. Fixed bug that caused TAPEUTIL to fail when the user attempted to load files from the Nth 8600 cartridge. (PRS # 1840, 1841).

LIMITATIONS:

1. TAPEUTIL does not allow generic specification of files using the "-" sign (PRS# 1593)
2. TAPEUTIL won't overwrite a file of different file format even if OVERWRITE option is given (PRS# 2179)

PROGRAM FILES RELEASED:

TAPEUTIL/RFM *Release Form*
TAPEUTIL/CMD Command File

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: UNSPOOL 1.3

PRODUCT DESCRIPTION: BJT System Program to oversee unspooling of print files.

Program initializes and "donates" printer resources to unspool BJT system print files requests.

PURPOSE OF RELEASE: 2 - Corrects Outstanding Problems

SOFTWARE CANCELLED BY THIS RELEASE: None

SOFTWARE REQUIRED: RMS
BJT/CMD

HARDWARE SUPPORTED:
Minimum Memory: 36K (one printer)
+8K per additional printer

** 1.2 **

1. Filters now have available the identification of the other filter.
2. Two new commands allow operator control over printing of the "banner" page. "SUPPRESS" causes all banner printing to be inhibited and "BANNER" causes it to be reinstated.

** 1.3 **

1. The minimum number of buffers needed by the unspooler is now four per printer task instead of eight.
2. The standard disk and printer filters are now included in the main code and are no longer separate members of the command library.
3. The disk filter used by the unspooler is now based on input file type. If this is something other than a standard (FORTRAN) style print file, the unspooler searches the command library for a relocatable module named DFILTRnn, where nn is the file type in ASCII decimal. If found, this member is loaded and used as the disk filter. Otherwise, the default is the resident standard disk filter.

UNSPPOOL 1.3

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WS3270 1.1

Page 1

LIMITATIONS:

1. When banner page SUPPRESS option is enabled, UNSPOOL prints ASA print control characters as data.(PRS# 2318)
2. If special text records exist at the beginning of a file and :RESTART is issued, the special text records will be printed as data. Jobs with special text records at the beginning, such as EDITed files, should be aborted and resubmitted rather than paused and restarted.(PRS# 2321)

PROGRAM FILES RELEASED:

UNSPPOOL/CMD RMS Object Program
UNSPPOOL/RFM *Release Form*
UNSPPOOL/CNFG Configuration KDF file.

4. The burst page is printed now only at the end of the print file.

5. Memory requirements for the unspooler have been reduced. The minimum requirements (four buffers configured) are 28K plus 8K per printer.

6. IEOS generated files can be listed on 9601, 9602, 9611, 9621, and 9622 printers. UNSPOOL must be configured for this by specifying "PFILTR02" in response to the keyword prompt for "PRTFLTn" during UNSPOOL configuration. The n must be the number of a 9601, 9602 or 9611 printer. Note that configuring a print filter requires an extra 12K of memory.

NOTE: The following keywords have been added to the configuration of UNSPOOL.

1. RADIX which defaults to BJT0 and should not be changed.
2. PRTWSNMn which is for internal Datapoint use only.
3. PRTFLTn where the n corresponds with the PRTNAME number of the 9601, 9602, 9611, 9621, or 9622 printer on the UNSPOOLer. To be able to spool IEOS print files to the above printers, respond with PRTFLTn = PFILTR02.
4. MAINTO which is the refresh rate, shown in seconds, of the printer status on the UNSPOOL console. Accepted range is from 2 to 30 seconds. The larger the number, the less overhead on the system.
5. REMTO which is the rate at which the BJT controller is polled for jobs, shown in seconds. The allowable range is 5 to 255 seconds. The less frequently this polling takes place, the less overhead that will be imposed on the network. REMTO must be an integer multiple of LCLTO. If not entered as such, the System will force it to be an integer multiple.
6. LCLTO which is the rate at which the UNSPOOLer checks the status of each of its printers for OFFLINE. The range is 5 to 255 seconds. Setting this at 30 seconds or more will impose less overhead on the UNSPOOLer.

REMTO, LCLTO, and MAINTO are commands available at the UNSPOOL console.

DATAPOINT COMPUTER SYSTEMS DIVISION

PROGRAM RELEASE FORM

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PRODUCT/VER.REV: WS3270 1.1

DESCRIPTION: IBM 3270 EMULATION

This product provides IBM 3277/3278 emulation. It is used in conjunction with the RMS product DOSPIPE and the DOS product ACMLU or AC3271B to provide 3270 features under RMS.

PURPOSE OF RELEASE: 0 - New Software

SOFTWARE CANCELLED BY THIS RELEASE: None

SOFTWARE REQUIRED: RMS 1.9
DOSPIPE 1.1
AC3271B 1.4
ACMLU 2.1
DOS.D 2.7

HARDWARE SUPPORTED:
5XXX/6XXX/8800 Processor w/ 8200/8220 RMS WORKSTATIONS
Standalone 8600 Processor
3800 Processor

PROGRAM FILES RELEASED:

WS3270/RFM *Release Form*
WS3270/CMD 3270 Simulator Command File
WS3270/CNFG 3270 Configuration File

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