DATAPOINT

SOFTWARE RELEASE SUMMARIES

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DATAPOINT CORPORATION

SOFTWARE RELEASE FORMS

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This issue contains the following Software Release Forms:

ACD	4.1.1	ACD Host and Micro
ACD	1.1.1	ACD Performance Planner
ARCLINK	1.1	Remote ARC Communications System
DBCMP15	3.2	1500/1550/2150 DATABUS Compiler
DOS.D	2.7.1	Disk Operating System
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DS1500	1.2	1500/1550/2150 DATASHARE
EMT20015	1.2	CDC UT200 Emulator for 1500/1550/2150
ITMS	1.1	International Telex Management System
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ML2780	1.1	IBM 2780 MULTILINK Driver
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PS66	2.2	6600 DOS Partition Supervisor
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S1500	3.3	1500 Software System
UPS	2.2	Utility Partition Supervisor

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DATAPOINT CORPORATION

CMP PRODUCTS DIVISION

SOFTWARE   RELEASE   NOTIFICATION

NOTE: LICENSE REQUIRED

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of a license agreement between Datapoint and the user.

RELEASE TYPE: Product Capability

RELEASE STATE: Final

PRODUCT FAMILY/PRODUCT LINE VER.REL.REV: INFOSWITCH/ACD 4.1.1
                                         (HOST and MICRO)

RELEASE DATE: JULY 23, 1982

DESCRIPTION: INFOSWITCH/AUTOMATIC CALL DISTRIBUTOR

RELEASE MEDIA: One (1) Front Loading 2.5MB Disk
                 or One (1) Top Loading 10MB Disk
                 or One (1) Top Loading 25MB Disk
                 or One (1) Top Loading 60MB Disk

SOFTWARE CANCELLED BY THIS RELEASE: INFOSWITCH/ACD 2.3.3
                                    (HOST and MICRO)

MINIMUM HARDWARE REQUIRED:

        Processor/Series: 6600/6601
        Memory Size: 92K
        Disk: 936X,937X,939X (ARC only)
        ISS: 9036
        Comm: 9462 (Multi-port)

RELEASE ITEMS:
                     MODEL CODE   DESCRIPTION

Object Code: 9852   INFOSWITCH/ACD Version 4

Object Media: 20652   On 2.5 MB System Disk

Object Media: 20653   On 10 MB System Disk

Object Media: 20654   On 25 MB System Disk

Object Media: 20655   On 60 MB System Disk

User's Guide: 50729   User's Guide

FEATURES AND ENHANCEMENTS:

Version 4.1.1 of ACD has been enhanced as described in the following
features list. In addition, problems that existed in previous versions
with regard to interflowing and monitoring have been corrected as well
as known system outages.

1.   FORMAT REPORT

     The FORMAT REPORT command has been added to provide the ability to
     format and print the contents of any DOS compatible text file.
     This capability will be identical to the FORMAT REPORT command
     presently   available   in   the   INFOSWITCH/SHARE   product.
     Additionallly, a DOCUMENT FILES command is provided to list the
     field location and descriptions of all ACD database files.

2.   GROUP UTILIZATION REPORT

     The REPORT GROUP command provides information relative to the
     reporting group assignments and includes: the period being
     reported; the average number of positions staffed during that
     period, the number of calls offered to the reporting group; the
     number of calls handled, abandoned, and delayed; the average
     wrap-up time; and the number of calls originated or transferred by
     agents from this group.

3.   LINE UTILIZATION REPORT MODIFICATION

     The Line Utilization Report is modified to include several
     additional fields of information: the length of time each line was
     in use; the total number of calls abandoned by line; and the all
     trunks busy time for each split.

4.   OUTGOING TRUNK SELECTION

     The selection technique used to mark trunks for outgoing calls is
     enhanced by optionally allowing a top-down method of   call
     connection. This capability is available on a Line Type basis.

5.   PRINT SPOOLING

     A capability is provided to spool any or all system or command
     reports into an ARC disk file. This file could be accessed by
     another processor in an ARC environment for output to a printer.
     A PRINT FILE command is provided to allow on-line printing of the
     spooled data.

6.   MASTER CONSOLE

     A console capability has been developed to allow a MASTER CONSOLE
     the ability to view any screen (host or any supervisor) on any
     console in a single ACD system. Any console with this attribute
     defined in the database is able to EMULATE CONSOLE nn, and view an
     image of the requested console screen.

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7.   AGENT "AVAILABLE" STATUS COUNT

     The system no longer reflects Supervisors in the "AVAILABLE"
     display counts at either the host or supervisor consoles.

8.   LOCAL PRINTER SUPPORT

     Various reporting commands (REPORT AGENT, REPORT LINE, REPORT
     GROUP, etc.) are modified to support local printing on a FREEDOM
     II or similar serial printer attached to a supervisor console.

9.   CONSOLIDATED LINE STATUS

     A console capability has been developed to display line status
     activity for all lines defined in the system on all consoles in
     the system. The current method of assigning lines to specific
     consoles for reporting will continue to be supported.

10. AVAILABLE AFTER INCOMING

     An additional agent parameter was added that will place the
     agent's instrument into the AVAILABLE state (versus WRAP-UP or
     IDLE) after completing an incoming ACD call.

11. SUPERVISOR TONE TO MONITORED AGENT

     While monitoring a call (line or agent position), a supervisor can
     "request to be called" by the agent controlling the call.   The
     monitoring supervisor depresses the ENTER key to initiate the
     function.   Both the controlling agent and the monitoring
     supervisor will hear a 200 millisecond dial tone if the request is
     accepted. Other parties to the call will not hear the tone.

12. REVISED ROUTE PROCESSING

     Modifications were made to enhance route revisions to calls that
     were not serviced or an erroneous CALL WAITING indication. A new
     prompt was added to optionally allow calls currently in queue for
     a revised route to be reprocessed by the new route, beginning at
     Step 1.

OUTSTANDING PROBLEMS:

1.   There are outstanding discrepancies in the correlation   of calls
     totals from one report to another. (ex. Calls Waiting and
     Calls Abandoned do not equal Calls Offered).

2.   INCOMING CALL TRANSFER

     If more that one incoming call has been transferred to a specific
     agent via dial pattern 2XX (XX=agent position number), the CALLS
     WAITING light will not remain illuminated after the first call has
     been processed.

3.   PRINT SPOOLING

     The following restrictions apply to the print spooling capability:

          o The specified spool file should not be deleted or renamed
             while it is active.

          o If a system is configured having both PRIMARY and
             SECONDARY processors, spooling should not be active on
             both of the processors at the same time.

4.   LOCAL PRINTER

     If the command that specifies the ;LOCAL option normally has
     advisory messages displayed on the screen, these messages will also
     be printed along with the expected output on the local printer.

5.   DATABASE ACCESS

     If commands that define or revise the database files are entered
     from more than one console simutaneously only the first will gain
     access to the file. The depression of INT or KBD to terminate the
     second will cause a system outage at the ACD host.

DOS/UTILITY FILES RELEASED:

GENERAL OPERATING SYSTEM FILES

Filename	Description
AIMDEX/CMD	AIM File Generation Utility
AUTOKEY/CMD	Automatic Keyin Command Function
BACKUP/CMD	Disk Copy and Defragmentation Program
CAT/CMD	Program Catalog List Utility
CHAIN/CMD	Program Chaining Command
CHAIN/OV1	CHAIN Overlay 1
CHAINPLS/CMD	Chain File Compiler and Executor
CHAINPLS/OV1	Chainpls Overlay
CHAINPLS/OV2	Chainpls Overlay
CHAINPLS/REL	Chainpls Relocatable Library
CHEKTEXT/CMD	Text File Verification Program
CHEKTEXT/PRT	CHEKTEXT User's Guide
COPYFILE/CMD	Copyfile Command
DOS/EPT	DOS Entry Point File
DOSEPT/REL	DOS Entry Points in Relocatable Form
DSKCHECK/CMD	System data check and repair
EBCDIC/SEQ	EBCDIC Sequence Overlay for SORT
EDIT/CMD	DOS General Purpose Editor
INDEX/CMD	ISAM Index File Generator
LIBSYS/CMD	System Library Maintenance Utility
MIN/CMD	Cassette Input Utility
MOUT/CMD	Cassette Output Utility
SORT/CMD	DOS Sorting Utility
SORT/OV1	SORT Utility Overlay
SYSTEM0/SYS	Resident Operating System
SYSTEM1/SYS	PREP Overlay
SYSTEM2/SYS	CLOSE Overlay
SYSTEM3/SYS	OPEN Overlay
SYSTEM4/SYS	ALLOC Overlay
SYSTEM5/SYS	ABORT Overlay
SYSTEM6/SYS	System Initialization Overlay
SYSTEM7/SYS	Subdirectory and DOS Function Overlay
TESTLOOP/CMD	Communications Link Diagnostic
UBOOT/CMD	Universal Boot Tape Writer
UTILITY/LNK	Relocatable loader
UTILITY/OVL	Memory resident overlays and DOS functions
UTILITY/REL	Select relocatable library members
UTILITY/SYS	System Utilities Files

DOS SPECIFIC FILES

DOS.E

Filename	Description
COPYFILE/OVE	Copyfile overlay for 9350 disk (DOS.E)
DOSE262/RFM	DOS.E 2.6.2 Software Release Notification
UPGRADE/E	Chain File for DOS.E 2.6.2 Upgrade

DOS.D

ARCCODE/TXT	ARC User's Sign-on Log (DOS.D)
CHAIN/OV2	CHAIN Overlay 2
COPYFILE/OVD	Copyfile overlay for 9370/9374 (DOS.D)
COPYFILE/OVY	Copyfile overlay for 9390 (DOS.D)
DOSD/RFM	DOS.D 2.7 Software Release Notification Form
UPGRADE/27	Chain File for partial DOS.D Upgrade

SYSTEM FILES RELEASED:

INFOSWITCH/ACD 4.1

Filename	Description
ACD/CMD	ACD Host Operating System
ACD/LIB	ACD Command Library
ACDMICRO/CRC	ACD Micro Operating System
ACD411/RFM	Release Form Print File for ACD 4.1.1
CLEANUP/TXT	CHAINPLS File to Delete Conversion Routines
CONAGE/CMD	Agent File Conversion - Vers 2.1 to 2.3
CONAGE41/CMD	Agent File Conversion - Vers 2.3 to 4.1
CREATE/TXT	CHAINPLS File Used in Converting to ACD 4.1
CREATE1/TXT	CHAINPLS File Used in Converting to ACD 4.1
CREATE2/TXT	CHAINPLS File Used in Converting to ACD 4.1
INITSEQ/TXT	CHAINPLS File to Create Standard Sequences
INSTALL/PRT	ACD 4.1 Conversion/Startup Procedures
MAINTUPG/TXT	CHAINPLS File to "Upgrade" ACD System
MAINT/REL	File used during the "Upgrade" procedure
LINFIX/TXT	CHAINPLS File to Build New Line File
ACD41DMP/CMD	ISS Outage Analysis Utility
CARTDIAG/CRC	CTL Diagnostic
FORMAT/CRC	Cartridge Tape Formatter Utility
MAKECRC/CMD	ISS Program ABS to CRC Conversion Utility
MINCRC/CMD	CRC File Cassette Tape Read Utility
MOUTCRC/CMD	CRC File Cassette Tape Write Utility
SENDFILE/CMD	ISS Downline Load Utility
RELOAD/TXT	ISS Reload Chain File
PSCLER01/ABS	ACD41DMP/CMD Support File
PSCLDS01/REL	ACD41DMP/CMD Support File
PSCLIO01/REL	ACD41DMP/CMD Support File

DATAPOINT CORPORATION

COMMUNICATIONS MANAGEMENT PRODUCTS PRODUCT DIVISION

SOFTWARE RELEASE NOTIFICATION

NOTE: LICENSE REQUIRED

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RELEASE TYPE: New Product

RELEASE STATE: Final Release

PRODUCT FAMILY/PRODUCT LINE VER.REL.REV: ACD PERFORMANCE PLANNER
                                           Version 1.1.1

RELEASE DATE: September 10, 1982

DESCRIPTION: ACD PERFORMANCE PLANNER

RELEASE MEDIA: 3 Cassette Tapes

SOFTWARE CANCELLED BY THIS RELEASE: NONE

MINIMUM HARDWARE REQUIRED:

    Processor/Series: 6600/6601
    Memory Size: 96K
    Disk: 936X,937X,939X
    Printer: 9232 Matrix Printer

RELEASE ITEMS:

	MODEL CODE	DESCRIPTION
Object Code:	9872	Performance Planner Version 1
Object Media:	20698	On Cassettes (3 required)
User Documentation:	50753	ACD Performance Planner User's Guide

NEW PRODUCT RELEASE

The Datapoint[R] ACD Performance Planner is a management tool that provides the capability of examining ACD system performance under alternate system and traffic conditions.   The ACD Performance Planner produces management information related to the utilization of resources (that is, agents and circuits) and the quality of service given to incoming callers. This information can be used to analyze current ACD operations or to effectively plan for future ACD system requirements.

The ACD Performance Planner uses the simulation technique to act out conditions under which the ACD system will operate.   The Planner mathematically simulates call processing of the user-specified system configuration and traffic levels.   With Planner, you can analyze system performance based on alternate agent staffing and call routing and/or line configurations on your current ACD system as well as on future system configurations.

Currently, the ACD Performance Planner cannot be executed from a DOS chain file.

For further details, see the ACD Version 4.1 Product Specification (Model Code 60575).

SYSTEM AND SUPPORT FILES RELEASED

Cassette #1

HOUROVL/ABS	Planner Object File
SIMULT/ABS	Planner Object File
ACDINI/TXT	Planner System File
ACDLIST/TXT	Planner System File
PLANNER/CMD	Planner Object Code Initialization Module
PLANNER/CHN	Planner Installation Startup Chain File
PLANNER/RFM	Planner Software Release Notification

Cassette #2

MENU/ABS	Planner Object File
REPORT/ABS	Planner Object File
SIMOVL/ABS	Planner Object File

Cassette #3

INPUT/ABS	Planner Object File
REP/ABS	Planner Object File
SETUP/ABS	Planner Object File
SFP/ABS	Planner Object File
SFR/ABS	Planner Object File
SFS/ABS	Planner Object File
SFT/ABS	Planner Object File

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: ARCLINK 1.1

DESCRIPTION: Remote ARC Communications System

PURPOSE: D - New Software package

RELEASE MEDIA: Cassette
TOTAL SIZE: 120 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

EXECUTION SUPPORT:

    Software: DOS.D 2.7
                    ARC 1.7.1

    Hardware:
     Processor: 5500/6000/6600
     Minimum Size: 48K
     Disk: 937X/938X/939X
     Other: 9481

RELEASE ITEMS:	MODEL CODE	RELEASE
User's Guide:	50730	17 Pages
Program Media:	9859	1 DMF Cassette

DETAILED DESCRIPTION:

    ARCLINK is a communications program allowing the extension of a DOS ARC system beyond the limits of the coaxial Inter-Processor Bus. Dial or leased lines can connect one ARC to another, allowing applications processors on one ARC to mount volumes located on file processors of the other.

LIMITATIONS:

1.   When the communications line drops, the CP still will respond to the remote mount requests, letting the user mount the volume, although he cannot access that volume. The AP will indicate this by screaming when trying to read the remote disk.

2.   In dial mode, there is no way to abort the program from the "WAITING FOR COMMUNICATIONS" screen, except to reboot.

PROGRAM FILES RELEASED:

    ARCLINK/CMD   Command file
    ARCLINK/RFM   Release form print file

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: DBCMP15 3.2

DESCRIPTION: 1500/1550/2150 DATABUS COMPILER

PURPOSE: C - Adds new features (enhancements)

RELEASE MEDIA: Single-Sided Single Density Diskette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 144 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: DBCMP15 3.1

EXECUTION SUPPORT:

    Software: DOS.H 2.6 (or later)

    Hardware:
     Processor: 1500/1550/2150
     Minimum Size: 32K
     Printer: 9231/9235/9621
     Disk: 15XX/93XX/14XX

    1500 Concurrent Job Compatible: Yes   (except 32K systems)

RELEASE ITEMS: MODEL CODE   RELEASE
    User's Guide: 50302   Previously Released
    Program Media: 20793   DS/DD Diskette
    Program Media: 20809   SS/DD Diskette
    Program Media: 20697   SS/SD Diskette
    Software: 40273   DBCMP15 3.2

NOTE: When ordering, please include model code for software and model
code for desired media.

DETAILED DESCRIPTION:

    This product compiles programs written in a 1500 subset of the
DATABUS language. Compiled programs may be executed with one of the
1500 DATABUS or DATASHARE interpreters.

*** NOTE *** The new DATABUS verbs and verb features added in DBCMP15
3.1 (and later revisions of DBCMP15) are not supported by the older
1500 DATABUS interpreters. Each interpreter's user's guide must be
consulted to determine which DATABUS verbs and verb features are
supported by that interpreter. All section references listed below
are to sections within the DBCMP15 User's Guide.

REVISIONS:

1.   The PREPARE instruction has been enhanced to allow the PREPARing
     of an INDEX file and its associated data file.

     PREPARE (PREP) (Indexed Sequential):

     The PREPARE instruction is used to create and initialize a null
     data file and an associated null index file for use by a DATABUS
     program. One of the following general formats may be used:

     <label> PREPARE <ifile>,<slit>
     <label> PREPARE <ifile>,<svar>

     where:
     <label> is an execution label (see section 2).
     <slit> is a literal of the form "<string>" (see section 2.5).
     <svar> is a string variable (see section 4.2).
     <ifile> is a file declared using the IFILE declaration (see
     section 5.2).

     Programming considerations:

     -- These new formats for the PREPARE instruction are only
     supported on newer interpreters. The appropriate interpreter
     user's guide or release form should be consulted to find out if
     the interpreter supports the new formats.

     -- Most of the programming considerations listed in the general
     discussion of the OPEN instruction (see section 12.3.1) and in
     the discussion of the indexed sequential OPEN instruction (see
     section 15.1) apply to the indexed sequential PREPARE
     instruction. The following programming considerations apply only
     to the indexed sequential PREPARE instruction; and they
     supercede any conflicting programming considerations which may be
     in the two previously mentioned sections.

     -- The index file will have the name and extension provided in
     the <svar> or <slit>. Its default extension will be /ISI. The
     data file will have the same name as the index file with the
     extension of /TXT.

     -- If the drive number is specified, the interpreter first will
     attempt to open the data file on the specified drive. If the
     data file is not present on the specified drive, then the
     interpreter will attempt to open the data file on each on-line
     drive. If the all drive search reveals the data file is not
     present, the interpreter will create the data file on the
     originally specified drive. The interpreter will attempt to open
     the index file on the specified drive, and if it is not present,
     the index file will be created on the specified drive. Note
     that, unlike the data file, the index file always must be on the
     specified drive.

     -- If the drive number is not specified, the interpreter will
     search all on-line drives for the data file. If the interpreter
     is not successful in opening the data file on any drive, then it
     will create the data file on the lowest on-line drive. The same
     procedure will be used to open (or create) the index file when
     the drive is not specified.

     -- Regardless of whether the data and index files were opened or
     created, both of them will be written upon by the interpreter to
     turn them into NULL files. The data file will have an
     end-of-file (EOF) written into its first sector. The /ISI file
     will be altered so that it is "indexed" upon the null /ISI file;
     and it will be functionally equivalent to a null /ISI file created
     by the DOS INDEX utility. Any previous contents of the /TXT or
     /ISI files will be effectively destroyed.

     -- The index and data files will be initialized identically to
     how they would have been initialized if they had been NULL files
     that had been OPENed with the index sequential OPEN instruction
     by a newer interpreter (see section 15.1).

     -- If either the /TXT or /ISI file previously existed and was DOS
     WRITE protected, an I/O error will result.

     *** WARNING *** Use of the indexed sequential PREPARE instruction
     can cause loss of a data file and an index file. If, before
     execution of the PREPARE statement, the /TXT or /ISI files
     already exist, those file(s) will be changed to NULL file(s),
     destroying any previous file contents.

2.   The KEYIN statement now allows the *T<n> list control:

     -- In the *T<n> list control, a time-out occurs if more than <n>
     seconds elapse between entering any two characters. <n> can
     range from 1 to 65.

3.   The WRITE, WRITAB, and UPDATE statements now allow the *LL and *PL
     list controls.

     -- *LL instructs the interpreter to write the logical length of
     the variable, the characters between the form pointer and the
     logical length pointer. If the variable is null, no characters
     are written. This list control may be used in WRITE, WRITAB, and

     UPDATE statements. Once given, it applies to all character
     string variables until the end of the list is reached.

     -- *PL is the list control which instructs the interpreter to
     revert back to the normal mode of WRITing the physical length of
     the variable (see section 12.3.4.1).

4.   The TRAP instruction has been enhanced to allow the TRAPing of a
     character.

     <label1> TRAP   <label2> IF <event>

     The above general format now allows <event> to be <char> where <char>
     is a one character string literal, for example, "A".

     -- The TRAPping of a character is not supported by the earlier 1500
     interpreters, unless stated otherwise in the interpreter user's guide.

     -- The <char> event occurs when one specific character is entered from
     the keyboard. The character specified is the character to be trapped.

     -- If a character trap occurs while a PI instruction is in effect, the
     effect of the key and the TRAP is postponed until the PI expires.

     -- Only one character event may be trapped at any one time. Mulitple use
     of TRAP statements with the <char> event result in the trapping of only
     the character specified in the last executed TRAP.

     -- See the documentation on the TRAP instruction (section 6.9).

DOCUMENTATION ADDITIONS:

     The DBCMP15 Version 3 User's Guide has the following omissions:

     -- In section 6.9, it should state that "The TRAPping of the INTERRUPT
        key is not supported by the earlier 1500 interpreters, unless stated
        otherwise in the interpreter user's guide".

     -- In section 7.17, it should state that "The PORT and VERSION extensions
        of the CLOCK instruction are not supported by the earlier 1500
        interpreters, unless stated otherwise in the interpreter user's guide".

     -- In section 13.2, the following sentence should be added to part (
        of the fifth programming consideration; "In newer interpreters, an
        I/O error occurs only when trying to PREPARE a write protected file".

     -- In chapter 9, when discussing the *HON and *HOFF list controls, it
        should state that these list controls are not currently supported on
        ANY terminals.

     -- The DBCMP15 user's guide should state that leading zeroes are
        replaced by blanks when MOVEing to a numeric variable from a string
        or numeric variable. Also, leading zeroes are replaced with blanks
        when keying in characters into a numeric variable. Also, leading
        zeroes are replaced with blanks when READing into a numeric variable.

PROGRAM FILES RELEASED:

       DBCMP15/CMD   Overlay library file
       DBCMP15/RFM   Program release form print file

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM MAINTENANCE RELEASE FORM

NOTE: LICENSE REQUIRED

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SYMBOL/VER.REV: DOS.D 2.7.1

DESCRIPTION: DOS - DATAPOINT'S Disk Operating System

PURPOSE: A - Corrects problems (bugs)
                 C - Adds new features (enhancements)

RELEASE MEDIA: Cassette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 1416 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

FILES UPDATED:

System files: SYSTEM0/SYS, SYSTEM6/SYS, SYSTEM7/SYS, UTILITY/OVL
                 UTILITY/REL, DOS/EPT, DOSEPT/REL

Utilities: BACKUP, CAT, CHAIN, CHANGE, COPY, DOSGEN, DSKCHECK
                 EDIT, ENCODE, FILES, GEN9320, MOUT

EXECUTION SUPPORT:

     Software: DOS.D 2.7

NOTE: If used with ARC, release 1.7 or later of ARC software is
      required for proper operation.

       Hardware:
       Processor: 1800/3800/5000/5500/6000/6600/8600
       Minimum Size: 48K
       Disk: 9320/9350/937X/939X
       Printer: Local/Servo

RELEASE ITEMS: MODEL CODE   RELEASE
     User's Guide: 50646   Previously Released
     Program Media: 20895   4 DMF Cassettes
     Program Media: 40500   1 SS/DD Diskette
     Program Media: 40501   1 DS/DD Diskette

DETAILED DESCRIPTION:

     DOS.D is the Datapoint Corporation Disk Operating System for the
1800, 5500, 6600, 8600 processors, and the 9320/937X disk drives, the
Storage Module Disk (9390) or the 9350 cartridge.

REVISIONS:

     The following changes have been implemented in DOS since version
2.7. All features and corrections from the version 2.7 DOS release
are included in the 2.7.1 release unless otherwise noted below.

BACKUP

     ** Backup has the following new options:

       'R'   Backup with reorganization
       'F'   Copy all files during reorganization
       'M'   Mirror image backup
       'U'   Copy unallocated space
       'A'   Copy only allocated space
       'V'   Verify output
       'N'   Do not verify output
       'D'   Do not copy volid
       'C'   Copy volid
       'O'   Override CAT checks
       '9'   Do MIDS backup

     ** The bug where the last two clusters may not be copied when
backing up a 9320 type disk has been fixed.

     ** Added high speed physical drive backup for 939X disks ('9'
option).

       This option causes BACKUP to copy all 5 logical volumes on one
       physical drive to another physical drive. The use of this
       option requires that the MIDS controller IPU board be revision
       M or later with firmware revision G or later. To use this
       option the command line should have the following form.

       BACKUP x,y;9

       Where "x" is the physical drive number of the input drive and
       "y" is the physical drive number of the output drive. The
       drive numbers should be single digits in the file name field of
       the file specification.

       The following new information and error messages have been
       added for the 939X backup:

       THIS SYSTEM NOT RUNNING 9390 DISKS. -- An attempt to use the
       '9' option on a system that does not have 939X type disks.

       DRIVE SPEC INVALID WITH '9' OPTION. -- The input and output
       drives must be specified as single digits in the filename area

---

       of the first two filespecs.

       INVALID DRIVE NUMBER USE 0, 1, OR 2 -- These are the only valid
       9390 drive numbers on a DOS system.

       INPUT AND OUTPUT DRIVES MUST BE DIFFRENT. -- Self explanatory.

       * WRITE PROTECT THE SOURCE DISK OR TAP THE DISPLAY KEY TO
       CONTINUE * -- Self explanatory.

       BACKUP ABORTED. -- Some fatal error has occured, the output
       disk is not a good copy of the input disk.

       BACKUP TERMINATED BY USER -- The user pressed the keyboard key
       during backup operation.

       IS DRIVE NUMBER n SCRATCH? -- The user should answer 'Y' to
       this question only if all 5 logical volumes on physical drive
       'n' are scratch.

       LOCK OUT CAT ON :DRnn DOES NOT MATCH :DRnn -- Lock out cluster
       allocation tables on all 5 input volumes must match those on
       the corresponding output volume for the '9' option to be used.
       If this occurs the individual volumes should be backed up
       without the use of the '9' option. The 'O' option can be used
       to bypass this test.

       PARITY ERROR DURING READ OF LOCK OUT CAT ON :DRnn. -- Lock out
       cluster allocation tables on all 5 input volumes and all 5
       output volumes must be readable for the '9' option to be used.
       The 'O' option can be used to bypass this check.

       'O' OPTION IN EFFECT BACKUP CONTINUING -- Either of the two
       above errors occured on one or more volumes when the 'O' option
       was used.

       DRnn OFF LINE -- Durring the check of the lock out cluster
       allocation table on DOS logical volume 'nn' a drive off line
       condition was detected.

       * PARITY ERROR ON DRnn - PDA=nnn,nnn -- A parity error has been
       detected during the backup. DRnn is the dos logical volume. If
       'DRnn' is one of the 5 input volumes the error was a read
       error. If it is one of the output volumes the error was a write
       error.

       PARITY ERROR IN DOS UNUSED SPACE ON DRIVE n. -- A parity error
       has been detected during the backup. The sector in which the
       error was found is one of those not used by the 5 DOS logical
       volumes.

       OUTPUT DISK IS WRITE PROTECTED. -- This message will be
       displayed if the output disk becomes write protected during the
       back up. The processor will beep until the write protection is
       removed.

BACKING UP CYLINDER nnn -- This is the normal progress message from backup.

If any of the following error messages are issued an unexpected hardware event has occured. The user should contact a Datapoint representative.

* CONTROLLER OFF-LINE *
* DRIVE OFF-LINE *
* UNRECOVERABLE ERROR DETECTED *
* CONTROLLER POR DETECTED *
* CONTROLLER TIME OUT *
* FATAL CONTROLLER TIME OUT *

** Add option ('O') to override Lockout Cat checking.
If an 'O' option is on the command line the lockout cluster allocation table checks will not be performed. Also the check for the output disk having been DOSGEN'ed will be skipped. The primary use of this option is recovery of damaged disks. This option can not be used from a chain. Note that if any bad areas are on the output disk the resulting disk will be useless.

CAT

** Corrected problem causing blank last page when changing lines per page on local printer output.
** Extra page on local printer resulting when number of lines per page is an even multiple of number of lines no longer occurs.
** Corrected problem of wrong subdirectory being displayed.
** Corrected problems of wrong PFN being displayed on 1800/9320 systems.
** CAT no longer displays extra lines.

CHAIN

** Fixed to restore the vector at BOOTS if logging is not active.
** CHAIN will now run in a 24K partition under PS.
** Quotes on the command line now work correctly.
** The keyboard key will now abort the chain at a "//*" pause.

CHANGE

** Corrected error message "DRIVE OFF LINE" to be "FILE NOT FOUND" as is appropriate.
** Added informational messages:

          OLD PROTECTION WAS <prot>.
          NEW PROTECTION IS <prot>.

COPY

** Corrected to scan and recognize options following the "E" option.

DOSGEN

** Corrected to continue surface verification on correct drive when a parity error occurs (under ARC or with no UTILITY/OVL on disk).

DSKCHECK

** Changed to set the abort bit if an error occurs when running under CHAIN.
** Removed error message "nnn WRITE FAILURES HAVE OCCURED!!! PLEASE NOTE" at end of execution.
** Added an error counter at end of DSKCHECK showing total errors during execution:

          nnnnn ERRORS HAVE OCCURED.
          nnnnn OF THESE WERE WRITE ERRORS.

Display key must be depressed following this message if CHAINing is not active.
** Added 'P' & 'Q' options for print file output. Print file name is accepted in second file spec position. Print file cannot be located on drive being DSKCHECKed.
** Corrected problems when parity errors occur during read of system tables.
** Corrected cluster allocation conflict message so that number of clusters is output in decimal.

EDIT

ED22, ED18, and ED55:

** Corrected problem with EDITing a DATAPOLLed file.
** Corrected problem with EDITing a file starting with a null record.
** Changed 'A' option on command line to set SNAP3 tabs instead of ASM tabs.
** Changed default tab character in text mode to '^'.
** Changed default tabs (comment mode) to none.
** The copy back message has been changed to remove the references to file names.

ED18, ED55:

** If input file is larger than 65,535 logical records, EDIT will now force a ':O' to prevent damage to the input file. The scratch file will, however, contain all modifications made and can be BLOKEDITed with the input file to create a new file.
** If an ARCCLOCK file is available date and time of last EDIT will be recorded in the configuration sector.
** Added ':OD' command to output user definitions (numerical commands) to a definition file (EDIT/DEF).
** Added ':TF' command to set FORTRAN tabs.
** Corrected problem that caused slow screen display.
** Changed ':n>' (where n = 0-9) to not check for valid commands.

This way text records can be moved into user-defined fields and re-inserted in another part of the text using ':n<' command.

ED18 only:

** Added inverse video to messages displayed while in EDIT.

ENCODE

** Corrected problem of missing 015 and end of sector.
** Corrected problem of extra 015 on last record of output file.

FILES

** Corrected to run on a 3800 without an ICA.

GEN9320

** GEN9320 has been changed to use ARCOPY instead of COPYFILE.
** Partial gen has been changed to be easier to use. All files that are loaded from library files are copied. CHAIN command is always copied.
** The chain file (GEN9320/CHN) has been changed to recognize that a partial gen is in progress and to update UTILITY/SYS with LIBSYS if UTILITY/SYS is on the disk being generated and LIBSYS is available.

MOUT

** Will now correctly make an LGO tape if CHARSET/SYS is on any on-line volume.

SYSTEM ROUTINES

New equates in DOS/EPT and DOSEPT/REL.

SYSTEM file changes:

SYSTEM0/SYS

** 8600 keyin and display driver is now twice as fast.
** 9320 disk driver is now faster.
** 9320 disk driver is now compatible with ARC. (Corrects sporadic record format errors when using 1800/9320 as file processor)

SYSTEM5/SYS

** A bug where the wrong error message was displayed if DSPLY$ returned carry true has been corrected.

SYSTEM6/SYS

** Added a more legible default character set for the 8600.
** The screen brightness on the 8600 is set the first time SYSTEM6/SYS is loaded.

** Key clicking is turned off and normal repeating is selected each time SYSTEM6/SYS is loaded on an 8600.

SYSTEM7/SYS

DOS FUNCTION 6

** DOSFNC 6 is now memory resident on an 8600.
** DOSFNC 6 no longer uses ROM on an 8600.
** Corrected 8600 DOSFNC 6, subfunction 2 to preserve register A if no character is ready.

DOS FUNCTION 11

** Subfunction 1 now works correctly on an 8600.
** Subfunctions 11,0 and 11,1 now load characters with interrupts disabled.

DOS FUNCTION 18

** Corrected problem of reporting parity error as off line.

UTILITY/REL

LOCAL

** Corrected problem in using serial printer on 1800/3800 ICA.
** Corrected problem under PS, UPS, and PS66 where printer could enter a state of indefinite postponement.

PROGRAM FILES RELEASED:

   Tape 1 of 4: This is a DMF cassette which contains the following DOS System files:

          SYSTEM0D/ABS   Resident Operating System
          SYSTEM5D/ABS   System abort overlay
          SYSTEM6D/ABS   System Initialization Overlay
          SYSTEM7D/ABS   Subdirectory and DOS Function Overlay
          UTILITYD/OVL   Memory resident overlays and DOS functions
          UTILITY/REL   System relocatable library

   Tape 2 of 4: This is a DMF cassette which contains the following DOS Utilities:

          BACKUP/CMD   Disk Copy and Defragmentation Program
          CHAIN/CMD   Program Chaining Command
          CHAIN/OV1   CHAIN overlay 1
          CHAIN/OV2   CHAIN overlay 2
          EDIT/CMD   DOS General Purpose Editor

Tape 3 of 4: This is a DMF cassette which contains the following DOS
Utilities.

    UTILITY/NEW:
        CAT   Disk catalog command
        CHANGE   File Protect command
        COPY   File copy command
        DOSGEN   DOS Generation Program
        ENCODE   Encode any disk file (for transmission)
        FILES   Sorted File Description List command
        MOUT   Cassette output command
    DOS/EPT   DOS Entry Point File
    DOSEPT/REL   Relocatable DOS entry point table
    DOSD271/RFM   DOS.D release form print file

Tape 4 of 4: This is a DMF cassette which contains the following DOS
Utilities.

    AIMDEX/CMD   AIM Index file generator
    DSKCHECK/CMD   System data check and repair
    UPGRADE/271   Chain file to upgrade 2.7 volumes

    The system is also released on diskette for 1800/9320 systems.
The diskette contains:

    SYSTEM 0-7   DOS.G system files
    CAT/CMD   DOS.G disk catalog command
    GEN9320/CMD   9320 Disk generation program
    GENSYS0/ABS   SYSTEM0/SYS for 9320 generation
    GEN9320/ABS   Command and utility files for 9320 generation
                        used by GEN9320/CMD to generate:

    SYSTEM1/SYS-SYSTEM6/SYS
    UTILITY/OVL
    UTILITY/LNK
    CAT/CMD
    KILL/CMD
    ARCOPY/CMD
    COPYFILE/OVG
    CHAIN/OV1
    CHAIN/OV2

    SYSTEM7D/ABS   SYSTEM7 for 9320 generation
    UTILITYD/REL   Relocatable loader for 9320 generation
    UTILITYD/SYS   Utilities for 9320 generation
    CHAIND/ABS   CHAIN command file for 9320 generation
    GEN9320/CHN   Chain file to ARCOPY over the following
                        files:

    AIMDEX/CMD   AIM Index file generator
    EDIT/CMD   DOS general purpose editor
    DSKCHECK/CMD   System data check and repair
    BACKUP/CMD   Disk copy and defragmentation program
    AUTOKEY/CMD   Automatic keyin command function
    INDEX/CMD   ISAM index file generator

    SORT/CMD   DOS sorting utility
    SORT/OV1   SORT utility overlay
    EBCDIC/SEQ   EBCDIC sequence overlay for SORT
    DOSEPT/REL   Relocatable DOS entry point table
    UPGRADE/271   Chain file for partial DOS upgrade
    DOSD271/RFM   DOS.D 2.7.1 release form

UTILITYD/SYS on the release diskette contains all the following DOS.
INDEPENDENT Commands:

    ABTONOFF   Turn 'ABTIF' bit of DOSFLAG On or Off
    APP   Object File Append
    AUTO   Automatic Load Function
    BLOKEDIT   Block Text Editor
    BOOT   BOOT drive utility
    BUILD   Key to Disk Utility
    CHANGE   File Protect Command
    DECODE   Decode an ENCODEd disk file
    DUMP   File Dump Program
    ENCODE   Encode any disk file (for transmission)
    FILES   Sorted File Description List Command
    FIX   Object Code Editor
    FIXAPPLY   Patch application utility
    FREE   Free Space Utility
    KILL   File Delete Utility
    LIST   Text File List Utility
    MANUAL   Automatic Load Cancel
    PUTVOLID   Write disk symbolic volume identification
    REFORMAT   Disk File Reformation Utility
    SAPP   Source File Append Utility
    SUB   Subdirectory Utility

And the following DOS. DEPENDENT Commands:

    DOSGEN   DOS Generation Program
    NAME   File Specification Utility
    PUTIPL   Write IPL & Bootblock to UPGRADED Disks
    COPY   File copy utility
    BOOTMAKE   Boot Diskette for 9320

NOTE: The following DOS command files may be placed in UTILITY/SYS
       via LIBSYS. None of the other separate command files will run
       from UTILITY/SYS.

    COMMAND LIBRARIES:
    AIMDEX/CMD
    CHAIN/CMD
    DSKCHECK/CMD
    EDIT/CMD

    COMMAND FILES:
    BACKUP/CMD
    CAT/CMD
    MIN/CMD
    UBOOT/CMD

INSTALLATION INSTRUCTIONS:

    To Upgrade from cassette:

    1) MIN all 4 cassettes by entering the following:
    MIN ;AO:Dn where :Dn is the drive you want to upgrade first.

    2) CHAIN UPGRADE/271;INSTALL, answer the questions for input,
    output and work drives. The input and output drives may be the
    same. The execution of this chain will require that the LIBSYS
    utility be available.

    3) Once the first volume has been upgraded, upgrade other volumes
    by following the instructions in the DOS. USER'S GUIDE.

To Upgrade from diskette:

    Follow instructions for partial generation in chapter 31 of the
    DOS users guide.

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

NOTE: LICENSE REQUIRED

SYMBOL/VER.REV: DOS.H 2.7

DESCRIPTION: 1500/1550/2150 Disk Operating System

PURPOSE: A - Corrects problems (bugs)
                 C - Adds new features (enhancements)

RELEASE MEDIA: Single-Sided Single Density Diskette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 876 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: DOS.H 2.6 & DOS.H 2.6.1

EXECUTION SUPPORT:

        Software: None

        Hardware:
         Processor: 1500/1550/2150
         Minimum Size: 32K
         Printer: Serial
         Disk: 9310/9320; 1542/1543/1402; 1401/1403/1404

RELEASE ITEMS: MODEL CODE   RELEASE
    User's Guide: 50308   357 Pages
    Program Media: 40279   1 SS/SD Diskette
    Program Media: 40482   1 SS/DD Diskette
    Program Media: 40457   1 DS/DD Diskette

DETAILED DESCRIPTION:

    Disk operating system for the Datapoint 1500 series processors,
supporting the DOS.C and DOS.G diskette file structure, and the 4
logical drive, 2 logical drive, and 1 logical drive 9320 disk format.
One to four 9310/9320 disks are supported on 64K+ machines. Supports
one to two 154X or 1402 diskette controllers on 1500 processors, and
one to four 1401/1403/1404 diskette controllers or one to two
154X/1402 diskette controllers on 1550 processors.

REVISIONS:

1. Hard disks supported by DOS.H now are referred to generically as "93XX" disks.

2. 93XX logical drive support has been expanded. In addition to the previous four logical drives per physical disk format, DOS.H also supports one or two logical drives per physical disk. The 'REMAP' utility is used to select the number of logical drives on a disk before the disk is generated by the 'DOSGEN' utility. Selecting the number of logical drives per physical disk will determine the number of bytes available on each logical drive of the disk. New 93XX disks or 93XX disks not generated by DOS.H 2.7 are assumed to be in the four logical drive format.

3. DOS.H may be manually booted directly from a 93XX disk on 1550 systems. The 'PUTIPL' utility, invoked automatically by 'DOSGEN' and 'BACKUP', will place the necessary IPL and BOOT blocks on a 93XX logical drive.

4. DOS.H correctly determines if an alternate drive may be soft-booted. Only drives which contain DOS.H 2.7 system files may be soft-booted. This affects the 'BOOT' utility, the 'REMAP' utility, and the DOS.H initialization routine which determines if a 93XX drive will be designated as the booted drive when the system is manually booted from diskette.

5. DOS.H assures that the relocatable LINKing loader has exclusive access to the DOS overlay region when the LINKing loader is active.

6. DOS.H passes the original logical file number (LFN) to the system error handler when an internal position error occurs. Previously, the LFN was always LFN 0.

7. DOS.H correctly reloads DOS when an error is encountered while loading before executing a file.

8. DOS.H now stops all processes involved in a non-trappable system error before reloading DOS.

9. DOS.H 2.7 fully supports operation on all 1500/1550 processors through ROM version 31 (decimal). Prior versions of DOS.H do not support operation on 1550 processors with ROM version 31 or greater.

10. DOS function 10, subfunction 1, returns correct region size in all possible configurations.

11. DOS function 4, subfunction 28, has been added to return the internal DOS address of the LOADX$ vector.

12. The 'BACKUP' utility now allows for an exact image backup of one 93XX disk to another, ignoring logical drive boundaries. This provides a quick method of backing up all the data on a disk. 'BACKUP' will also allow two data diskettes to be backed up on a two-diskette drive system. 'BACKUP' will pause to allow the BOOTed DOS system diskette to be replaced with the input diskette for the BACKUP, and will pause upon completion of the BACKUP operation to allow the DOS system diskette to be re-inserted. 'BACKUP' also uses an improved surface verification technique when initializing diskettes.

13. The 'CHAIN' utility allows CHAIN processing to be aborted by depression of the keyboard key during any CHAIN display function or at an operator breakpoint. 'CHAIN' no longer underflows the system stack, which resulted in the destruction of the sytem resource queue.

14. The 'COPY' utility allows for termination of a copy upon detection of a valid DOS text file end-of-file mark in the input file, or upon detection of a DOS-type record format error in the input file. These options are especially useful when copying files between 93XX disks and diskettes. 'COPY' also allows multi-volume files to be generated on up to 100 diskettes, and allows files spread over multiple diskettes to be copied to a single file on a 93XX disk.

15. The 'DOSGEN' utility now verifies cylinder zero of a 93XX logical volume. 'DOSGEN' employs an improved surface verification technique on all media.

16. The 'DUMP' utility allows a "P" to be entered at any level to cause the contents of the screen to be printed on the system printer.

17. The 'EDIT' utility commands :EX and :OX now translate a lower case DOS command line to upper case before passing the line to DOS. :C no longer pads lines with blanks. A data stamp is now placed in the edit configuration sector upon a :E or :EX command, if the 1500 processor clock had been set.

18. The 'FILES' utility now asks for local printer output only if a local printer is available and online. The 'FILES' command line scanner now correctly recognizes options separated by commas and/or blanks.

19. The 'PUTIPL' utility now places IPL and BOOT blocks on 93XX logical drives.

20. The 'REFORMAT' utility operates correctly when reformat-in-place with fixed record length is requested.

21. The 'REMAP' utility allows the user to select the number of logical drives per physical 93XX disk, thus determining the size of each logical volume. This operation will result in the loss of all previous files on the entire disk, and should only be dones prior to the execution of 'DOSGEN' on the disk. The ";P" option allows the system printer baud rate to be modified temporarily in memory, or permanantly on any online DOS.H logical drive. This option also allows the user to set the horizontal character spacing and the vertical line to partiion any extended memory in a 1550 processor with ROM version 31 or greater between the DOS program partition and the concurrent job partition. The display of the system diskette drives has been changed to reflect the physical location of the diskette in the drive.

22. The 'SORT' utility no longer loses secondary records during a primary record sort.

23. The 'UPGRADEH/27' upgrade chain file has been changed to allow the user the choice of upgrading "UTILITY/SYS" by an unconditional copy, or by "LIBSYS15/CMD". The use of "LIBSYS15" assures that any non-DOS.H members of UTILITY/SYS are preserved, but requires free file space equal to the size of "UTILITY/SYS" to be present. Some single density systems may not have this file space available. The unconditional copy of "UTILITY/SYS" will delete any non-DOS.H members, but requires no additional file space to be avialable. The chain file is now fully commented for ease of user-site modifications, and has operator breakpoints for verification of the upgrade operation to take place.

24. DOS.H fully supports operation of "REMDOS15".

25. IEOS 1.5 and earlier versions are not compatible with DOS.H 2.7. IEOS 1.6 (or later version) is required for DOS.H 2.7.

26. DS1500 1.1 is not compatible with DOS.H 2.7. DS1500 1.2 (or later version) is required for DOS.H 2.7.

27. The DOS.H Users's Guide has been updated to reflect all new features of the DOS and its associated utilities.

PROGRAM FILES RELEASED:

Diskette 1 of 1: This diskette contains the following System and Command files:

AUTOKEY/CMD	Automatic keyin command function
CHAIN/CMD	Program chaining command
CHAIN/OV1	CHAIN overlay 1
DOSGUP/REL	DOS.H entry points and definitions for LINKing
DSKCHK15/CMD	Logical volume repair command
EBCDIC/SEQ	EBCDIC sequence file for SORT
INDEX/CMD	ISAM index file generator
SORT/CMD	DOS sorting utility
SYSTEM0/SYS	Resident operating system
SYSTEM1/SYS	Prep/Alloc overlay

SYSTEM2/SYS	File close overlay
SYSTEM3/SYS	File open overlay
SYSTEM4/SYS	Tasking/Communication module
SYSTEM5/SYS	Abort overlay
SYSTEM6/SYS	RAM screen/RAM keyboard loader
SYSTEM7/SYS	DOS functions and subdirectories
SYSTEM/OVL	Absolute library for mixed-media support
SYSTEM/REL	Relocatable library for mixed-media support
UTILITY/LNK	Relocatable LINKing loader
UPGRADEH/27	Chain file to upgrade existing systems
DOSH/RFM	Release Form print file

UTILITY/SYS contains certain DOS commands:

ABTONOFF	Turn "ABTIF" bit of DOSFLAG on or off
APP	Object file append
AUTO	Automatic load function
BACKUP	Disk copy and defragmentation main module
BACKOV1	Backup overlay 1
BACKOV2	Backup overlay 2
BLOKEDIT	Block text editor
BOOT	Alternate drive soft boot
BUILD	Key to disk utility
CAT	Program catalog list utility
CHANGE	File protect command
CLOCK	Internal clock read and set program
COPY	File copy utility
DECODE	DECODE an ENCODEd file
DOSGEN	Disk/diskette generation/initialization
DUMP	Logical disk sector DUMP program
EDIT	DOS general purpose editor
ENCODE	Encode any disk file (for transmission)
FILES	Sorted file description list command
FIX	Object code editor
FREE	Free files and space list utility
KILL	File deletion utility
LIST	Text file list utility
MANUAL	Automatic load cancel
NAME	File name change/specification utility
PUTIPL	Write IPL & bootblocks to disk
PUTVOLID	Write symbolic volume identification to disk
REFORMAT	Disk file reformation utility
REMAP	System resource mapping command
REMAPOVD	Logical drive remap overlay
REMAPOVM	Extended memory remap overlay
REMAPOVP	Printer remap overlay
SAPP	Text file append program
SUR	Subdirectory utility

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

NOTE: LICENSE REQUIRED

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Corporation and may be used or transferred only pursuant to the terms
of a license agreement between Datapoint and the user.

SYMBOL/VER.REV: DS1500 1.2

DESCRIPTION: 1500/1550/2150 DATASHARE

PURPOSE: C - Adds new features (enhancements)

RELEASE MEDIA: Single-Sided Single Density Diskette
                  Single-Sided Double Density Diskette
                  Double-Sided Double Density Diskette
TOTAL SIZE: 624 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: DS1500 1.1

EXECUTION SUPPORT:

        Software: DOS.H 2.6 or later
                       DOS.H 2.6.1 (INDEX/CMD) or later
                       LIBSYS15 1.3
                       LINK15 1.2

        Hardware:
         Processor: 1500/1550/2150
         Minimum Size: 64K
         Printer: 9231/9235/9621
         Disk: 14XX/15XX/93XX

        1500 Concurrent Job Compatible: Yes (with noted restrictions)

RELEASE ITEMS: MODEL CODE   RELEASE
  User's Guide: 50482   76 Pages
  Program Media: 20697   1 SS/SD Diskette
  Program Media: 20809   1 SS/DD Diskette
  Program Media: 20793   1 DD/DS Diskette
  Software: 20727   1 DS1500 1.2

NOTE: When ordering, please include model code for Software and
model code for desired media.

DETAILED DESCRIPTION:

    DS1500 is a high-level, multi-user, interactive program which
interprets Datapoint's DATABUS language. It operates on Datapoint's
1500/1550 series processors. It is capable of serial printer support,
indexed-sequential, random-accessed, or sequential file I/O. DS1500
supports a maximum of four ports. The 1500/1550/2150 can be configured
as a port. The external ports can be configured to run on the Four
Port Communications Adapter (FPCA) or the Internal Communications
Channel (ICA) and the SIO Communications Channel (if ROM version 31 or
greater).

RESTRICTIONS:

    DOS.H 2.6.1 (or later) INDEX command must be used to create null
ISI files for use with DS1500.

    DS1500 can NOT execute concurrently if Multilink (external
communications) is configured. A maximum of one port can be
configured if DS1500 is to execute concurrently on a 64K 1500/1550.

    The *HOFF and *HON list controls are not supported on any
terminals. Users who have terminals that support inverse video must
provide the appropriate octal control character sequence in the
KEYIN/DISPLAY list to enable or disable the inverse video on their
terminals.

REVISIONS:

1.   Interpreter Replacement -- The DS1500 1.2 Interpreter replaces
     the DS1500 1.1 Interpreter in every aspect of 1500 DATASHARE
     operation.

2.   Supported Features -- DS1500 1.2 fully supports all features and
     configurations of DS1500 1.1, with the exception of changes to the
     COMWAIT verb.

3.   CHANGES TO EXISTING FEATURES:

  A. Concurrency Support -- Concurrency now is supported on a 64K
     1500. This configuration is valid only when there is a maximum
     of 1 port configured into the DATASHARE system.

  B. Port One on the Console -- Port one on the console now supports
     the repeat key feature. This feature performs the same as on all
     8200's.

4.   NEW FEATURES:

  A. Ports on the SIO Communications Channel -- The 1550 processor
     with ROM version 31 or greater has an optional second internal
     communications channel. This allows a user to configure four
     DATASHARE ports without configuring the FPCA (Four Port
     Communications Adapter). The SIO communications channel can run
     two DATASHARE ports; the internal communications channel (ICA)
     can run one port; and port 1 is configured to be on the console.
     The maximum number of ports on a system with an FPCA remains at four.

  B. Internal Communications -- DS1500 supports the full range of
     internal communications. The RECEIVE verb was added to complete
     the necessary link to have a useful internal communications. DS1500
     internal communications now functions as documented in the DBCMP15
     User's Guide (Model code 50302). The internal communications no longer
     functions as formerly documented in the DS1500 1.1 User's Guide.

  C. Multilink Support for External Communications -- DS1500 supports
     the Multilink facility to enable a DATABUS program to interface
     with an external communications device. Multilink is run as an
     independent task with the ability to start multiple tasks of its
     own. Multilink requires a 1500 with at least 64K of memory. In
     this 64K configuration, Multilink has the same restriction as support
     for a concurrent job, which is a maximum of 1 port configured. In
     a 1550 with greater than 64K, the Multilink will execute with a
     maximum of 4 DATASHARE ports. Multilink and Concurrency will NOT
     execute together because they both use the region from
     0150000-0167777 (8K of memory).

  D. ACALL -- ACALL (assembler language "CALL") is supported in a 1550
     with 96K or more of memory. The ACALL overlay uses an extended
     memory sector for its execution. The ACALL overlay is opened and
     checked for validity. The extended memory is mapped in and the
     ACALL is loaded. DS1500 will support only the dynamic ACALL
     feature. If only one ACALL overlay is used, then it is loaded
     only once and simply is "mapped" into logical space as needed.
     The ACALL is restricted to fit into 4K of RAM or the ACALL
     overlay will not be loaded.

  E. DATABUS Library Support -- In DS1500 the user now may keep
     his/her DATABUS programs in a library. Using the Datapoint
     library utility program LIBSYS15, one may create library files of
     DATABUS object code (/DBC programs). Such libraries are accessed
     and utilized by DATASHARE in much the same manner as DOS uses the
     UTILITY/SYS file.

  F. The WRITE, WRITAB, and UPDATE verbs now allow two new list controls:

     1. *LL -- Write the logical length of the variable

     2. *PL -- Write the physical length of the variable

  G. The RECEIVE verb has been added for internal and external
     communications.

  H. The PREPARE verb now allows the creation of a null /ISI file
     and an associated null /TXT file.

  I. The *T<n> list control is now supported in KEYIN statements.

  J. DS1500 now will support TRAP on character. This function is
     handled in a similar manner as a TRAP on a function key(s) and the
     interrupt sequence.

5.   OTHER CHANGES:

  A. The SHUTDOWN verb will now ensure the printer is released before
     returning control to DOS.

  B. Two consecutive spaces will now be compressed to 011,002 if space
     compression is enabled during a WRITE. This was done to increase
     compatibility with DS6 and should not effect program execution.

  C. The DS1500 signon message will now precede all initialization error
     messages.

  D. The user may now re-link the DS1500 interpreter without KILLing the
     /CFG file.

6.   PROBLEMS FIXED -- The following is a list of problems that occured in
     DS1500 1.1 which have been FIXED in DS1500 1.2.

  A. If DS1500 did an INDEXED READ, and no match was found for the key, the
     variables in the read list were erroneously nulled.

  B. A cursor positioning list control in a KEYIN statement would erroneously
     clear the function key flags. Thus, if one of these list controls
     followed a variable at which the function key was hit, the function key
     flag would not remain set.

  C. When DS1500 was doing space compressed WRITEs, and WRITEing a sequence
     of two or less compressed spaces, the interpreter would lose its place
     in the sector causing indeterminate and serious results.

  D. If characters were entered into a variable that was preceded by an *RV,
     then the *RV condition was erroneously applied to the next KEYIN variable
     even if it was in a separate subsequent KEYIN statement.

  E. If a KEYIN variable was preceded by an *RV list control, and if an *T
     timeout occured, or a new-line or function key was hit before any
     characters were entered into the variable, then the variable was
     erroneously nulled.

  F. DS1500 1.1 would erroneously give a CFAIL error message when trying to
     execute a program that was compiled with a compiler released prior to
     DBCMP15 2.1.

  G. The interpreter would not give a CFAIL error message if it was attempted
     to execute a DATABUS program that exceeded 32K.

H. DS1500 erroneously set the OVER flag when moving a numeric variable to itself.

I. If an INDEXED READ was done using tabbing by a decimal constant, and if the record was not found, then the interpreter might skip subsequent DATABUS statements.

J. If a string variable was null, and if this variable was displayed by using an *DV in a KEYIN statement, then the form pointer of the null variable was erroneously changed from 0 to 1. Also the cursor would erroneously flash temporarily at the first character of the *DV variable.

K. If tabbing by a numeric variable was done in a PRINT statement, the column tabbed to was one greater than the number in the variable.

L. If DS1500 was configured for formfeed on RELEASE, and if a RELEASE was executed when more than 3 seconds had elapsed since the last PRINT statement was executed by that port, then DS1500 would "hang" if a SHUTDOWN or ROLLOUT was attempted before the next PRINT statement was executed.

M. If a KEYIN statement cursor positioning list control was placed between a *JR or *ZF list control and the following variable, the effect of the *JR or *ZF was nullified.

N. If DS1500 was doing space and record compressed INDEXED WRITEs, and if data records in the last physical sector before the end of file (EOF) contained an 011 followed by an 003, then an I*B error would result.

O. If INDEXED disk activity was being done on more than one port, and if an INDEXED WRITE was followed by an INSERT, then sometimes an I*X or I*Z error would result.

P. If *RV preceded a variable, and a null entry was made, the form pointer of the variable was changed to 1. If the variable had previously been null, changing the form pointer to 1 could cause subsequent WRITEs of the variable to yield indeterminate results.

Q. A logical WEOF was not putting the 003 into the current buffer position before writing the end of file (EOF).

R. ROLLOUT would only take the first 43 characters from a command line that was contained in a string VARIABLE, although a command line of up to 77 characters should have been permissable when using a string variable.

S. PREPARE erroneously gave an I*P error if it was attempted to PREPARE a delete protected file.

T. If *RV preceded a variable, and if characters were entered into the variable followed by a CANCEL or BACKSPACE back to the first position of the variable, then the effects of the *RV were erroneously not nullified.

U. The position of the text file after a DELETE was indeterminate. The text file should have been positioned to the byte following the 015 of the deleted record (which had been overwritten by an 032).

PROGRAM FILES RELEASED:

DS1500/RFM	Release Form print file
DS1500/CMD	System Loader and Configurator modules
DS1500/REL	Relocatable library contains main Interpreter modules for linking at the user site.
DS1500/CHN	CHAIN file for user site linking
FUNCTION/TXT	Sample ANSWER program example for down-line loading character set to 8200 terminals.
FUNCTION/SYS	8200 function key character set

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: EMT20015 1.2

DESCRIPTION: CDC UT200 Emulator for 1500/1550/2150

PURPOSE: A-Corrects problems (bugs)

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

TOTAL SECTORS: 120 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

EXECUTION SUPPORT:

Software: DOS.H 2.7

Hardware:
Processor: 1500/1550/2150
Minimum Size: 32K
Printer: Serial Freedom

1500 Concurrent job compatible on 64K only.

RELEASE ITEMS:	MODEL CODE	RELEASE
User's Guide:	50492	68 Pages
Program Media:	20697	1 SS/SD Diskette
Program Media:	20809	1 SS/DD Diskette
Program Media:	20793	1 DS/DD Diskette
Software	20890	EMT20015 1.2

NOTE: When ordering, please include model code for software and model code for desired media.

DETAILED DESCRIPTION:

EMT20015 is a program which will emulate the operation of the CDC 200 User Terminal in both BCD and ASCII line disciplines. It is written to operate on a Datapoint 1500 computer with at least 32K of RAM memory. EMT20015 executes as the main program under DOS.H. Concurrent job processing is not supported in a 1500 processor with 32K of RAM memory, but is supported in a 1500 processor with 64K of RAM memory.

NOTE: RTS/CTS (request-to-send/clear-to-send) delays of less than 8.5 milliseconds are NOT supported.

REVISIONS:

** 1.2 **

1. The problem of records not being printed when their length was greater than the PRINT-BUFFER, has been corrected. The print line will now be truncated to the PRINT-BUFFER LENGTH.

2. The problem of SYSTEM-DATA failure when an EOF was found immediately after a buffer transmission, has been corrected.

3. If the printer goes OFF-LINE due to a paper problem, a message is now displayed after 20 seconds and is redisplayed after 1 and 1/2 minutes.

4. This release provides for the program changes needed for the faster and more efficient ROM 31.

PROGRAM FILES RELEASED:

EMT20015/CMD	Command file
EMT20015/CFG	Configuration file
EMT20015/RFM	Release form print file

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: ITMS 1.1

DESCRIPTION: International Telex Management System

PURPOSE: D - New software package

RELEASE MEDIA: One 10 Megabyte Disk or
                 One 60 Megabyte Disk

TOTAL SIZE: 3528 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

EXECUTION SUPPORT:

     Software: DOS.D 2.7
                      DBCMPLUS 3.3
                      DS6 1.3
                      COPYFILE 2.1
                      FASTSORT 3.2
                      LINK 2.4
                      LIBSYS 2.2
                      LIBRARY 2.1

     Hardware:
      Host Processor: 6000/6600
      Minimum Size: 128K Bytes
      Disk: 937X/939X
      Datastation: 3600/82xx
                          9462,9171   (Hardware Interface Module)

      ARC Processor: 1800/3800*
                          *Not 9171 compatible
      Minimum Size: 60K

     5500/6600 Partition Supervisor Compatible: No

RELEASE ITEMS: MODEL CODE   RELEASE
     User's Guide: 50658   102 Pages
     Operator's Guide: 50676   18 Pages
     Installation Guide: 61273   53 Pages
     Program Media: 20653   1 10 Megabyte Disk
     Program Media: 20655   1 60 Megabyte Disk
     Software: 9855   ITMS 1.1

     NOTE: When ordering, please include model code for software and
model code for desired media.

DETAILED DESCRIPTION:

     The Datapoint International Telex Management System is a turnkey
application which provides the user with the capability to automate
the functions required for transmission, reception, and management of
telex network resources.

     The 9171 HIM cannot be connected to 1800/3800 series processors.

OUTSTANDING PROBLEMS:

1.   During message reception, if the remote telex device cuts the
     line during transmission of a line of text prior to issuance of
     C/R, the DATASHARE program does not recognize the line cut and
     enters a time-out mode. This will be fixed in the next release.

2.   If the transmitting telex device sends text containing excessive
     "blank lines", the HIM buffer will fill with spaces, resulting in
     buffer overflow; and the line will be cut by the HIM. This will
     be fixed in a future firmware release.

3.   When updating destination mnemonics, the screen prompts are not
     always properly refreshed.

4.   The Spool verb must be active in all configurations or the
     programs (LIST and COST) will not run.

PROGRAM FILES RELEASED:

     ITMS/DBL   ITMS Datashare Object Library
     HIMDIAG/CMD   Hardware Interface Module diagnostic program
     TGENFILE/CHN   System Installation and Maintenance procedure
     TLXCMD/TXT   Chain file used in conjunction with the
                         system maintenance procedures
     TINDEX/TXT   Sample system re-INDEXing chain file
     ANSMAS/LIB   Workstation ANSWER and MASTER source
                         and inclusion files
     INTERACT/LIB   Source files required to implement
                         Interactive Mode application programs
     POLLINK/REL   HIM interface driver
     ITMS/RFM   Release Form print file

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: LOAD15 3.1

DESCRIPTION: 1500/1550/2150 LOAD BACKUP UTILITY

PURPOSE: A - Corrects problems (bugs)
                 C - Adds new features (enhancements)

RELEASE MEDIA: Single-Sided Single Density Diskette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 96 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: LOAD15 2.1

EXECUTION SUPPORT:

     Software: DOS.H 2.7

     Hardware:
      Processor: 1500/1550/2150
      Minimum Size: 64K
      Disk: 9310/9320/15XX/14XX

     1500 Concurrent Job Compatible: No

RELEASE ITEMS: MODEL CODE   RELEASE
     User's Guide: 50498   Previously Released
     Program Media: 20793   1 DS/DD Diskette
     Program Media: 20809   1 SS/DD Diskette
     Program Media: 20697   1 SS/SD Diskette
     Software: 20726   1 LOAD15 3.1

(NOTE: When ordering, please include model code for software and model
code for desired media.)

DETAILED DESCRIPTION:

     LOAD15 is a utility used to transfer files between the 9310/9320
disk and 1500/1550 diskettes.

REVISIONS:

1.   Better disk and diskette error handling capabilities have been
     added.

2.   LOAD15 now handles multiple format 93XX disks. Refer to your
     DOS.H 2.7 User's Guide for specific information on the various
     formats.

3.   LOAD15 does not use the diskette drives in the order specified on
     the command line, but rather uses them in ascending numerical
     order. (Different from User's Guide section 2.1)

     NOTE: LOAD15 allows diskettes to be changed from SINGLE DENSITY
to DOUBLE DENSITY and DOUBLE DENSITY to SINGLE DENSITY. If an error
is encountered during conversion, the diskette should not be used
since it can possibly contain both single and double density sectors.
Use of such a diskette can cause loss of data when trying to reload
the 9310/9320 at a later date. This does not apply if no conversion
is made to the diskette at initialization. Use of diskettes intended
only for SINGLE DENSITY use is not recommended for use as DOUBLE
DENSITY diskettes, since they are not certified for DOUBLE DENSITY
use.

PROGRAM FILES RELEASED:

     LOAD15/CMD   Command file
     LOAD15/RFM   Print file for release form

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: ML15TC35 2.1

DESCRIPTION: BURROUGHS POLL/SELECT LINE HANDLER for DBML15

PURPOSE: A - Corrects Problems (bugs)
                 B - Improves performance

RELEASE MEDIA: Single-Sided Single Density Diskette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 168 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: ML15TC35 1.4

EXECUTION SUPPORT:

     Software: DOS.H 2.7
                     DBML15 1.3

     Hardware:
      Processor: 1500/1550/1560
      Minimum Size: 32K
      Printer: 9231/9235
      Disk: 9310/9320/14XX/15XX
      Comm: Internal comm adapter
                     Mode: Half Duplex synchronous/asynchronous
                     Modem: Bell-compatible
                     Bit rate: 300-4800 bps
                     Min. RTS/CTS delay: 8.5 msec
                     Line: Leased/Dialup

     1500 Concurrent Job Compatible: No

MAINTENANCE SUPPORT: LINK15 1.2

RELEASE ITEMS: MODEL CODE   RELEASE
     User's Guide: 50461   44 Pages
     Program Media: 20697   1 SS/SD Diskette
     Program Media: 20809   1 SS/DD Diskette
     Program Medit: 20793   1 DS/DD Diskette
     Software: 20634   ML15TC35 2.1

     NOTE: When ordering, please include model code for software and
model code for desired media.

DETAILED DESCRIPTION:

     ML15TC35 is a DBML15 line handler module for use with the
Burroughs TC500/TD800/TC3500 (Standard Poll/Select) protocol. This
module is designed to take advantage of the 1500's task & queuing
mechanisms and the initialization system designed into DBML15 to make
it versatile and easy to use.

REVISIONS:

** 2.1 **

1.   Added support for 1800 BPS for the 1550 processor.

2.   ML15TC35 would ACK a transmission and indicate a successful
     reception to the DATABUS program even though the data received
     was too large or contained too many variables to be contained in
     the variables posted in the RECV COMLIST in the user's DATABUS
     program. ML15TC35 will now ACK the transmission, place the data
     in the user's DATABUS variables, indicate a successful reception,
     but will place the letter 'O' in the ROUTE variable associated
     with that RECV COMLIST.

3.   Added support for firmware version 31.

4.   Fixed problem of not responding to fast select under certain
     conditions.

5.   Fixed problem of responding to ACK intended for another address.

6.   Fixed problem of dropping RTS before all characters were
     transmitted.

7.   Updated documentation to stress the necessity of using only /K58
     module in configurations with mixed disk media.

8.   Updated documentation to clarify the meaning of the term
     "TX-BUFFER".

9.   Fixed problem of incorrect load address in /K58 module
     (PR#11199).

ERRORS PENDING:

1.   Due to a characteristic of the 1500 communications package
     discovered in the preparation of this release, ML15TC35 is
     particularly sensitive to RTS-CTS delay and data streams with
     trailing pads, especially in asynchronous applications. If there
     is insufficient RTS-CTS delay or turnaround time, or if
     asynchronous data contain trailing pads, the line driver will
     respond ACK to a select and time out without responding to the
     subsequent data block. Another manifestation of this problem is
     responding NAK to a select and failing to respond to an
     immediately following poll. The use of trailing pads is not
     recommended on asynchronous networks.

PROGRAM FILES RELEASED:

     ML15TC35/RFM   Program Release Form print file
     ML15TC35/REL   Relocatable version for maintenance.
     ML15TC35/CFG   Sample configuration file for line driver.
     ML15TC35/MKE   CHAIN file for relinking.
     FILESEND/TXT   Sample DATABUS program (text file).
     FILESEND/DBC   Sample DATABUS program (DATABUS code file).

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

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SYMBOL/VER.REV: ML15TTY 1.4

DESCRIPTION: Teletypewriter Line Handler for DBML15

PURPOSE: C - Adds new features (enhancements)

RELEASE MEDIA: Single-Sided Single Density Diskette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 192 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: ML15TTY 1.3

EXECUTION SUPPORT:

     Software: DOS.H 2.7
                     DBML15 1.3

     Hardware:
      Processor: 1500/1550
      Minimum Size: 32K
      Disk: 9310/9320/15XX/14XX
      Printer: Local/Servo/Dual Tractor 9231/9235

     1500 Concurrent Job Compatible: No

MAINTENANCE SUPPORT: LINK15 1.2

RELEASE ITEMS: MODEL CODE   RELEASE
     User's Guide: 50513   Previously released
     Program Media: 20697   SS/SD Diskette
     Program Media: 20809   SS/DD Diskette
     Program Media: 20793   DS/DD Diskette
     Software: 20744   ML15TTY 1.4

(NOTE: When ordering, please include model code for software and
model code for desired media.)

DETAILED DESCRIPTION:

    ML15TTY is a line handler module for use with USASCII
teletypewriter protocol. It may be used with most USASCII
asynchronous peripheral devices that employ RS-232 connections, such
as badge readers, card readers, and printers. The ML15TTY program is
designed to take advantage of the 1500's task and queuing mechanisms.
Its initialization system is versatile and easy to use, permitting a
variety of configurations in the transmissions format.

NOTE: **WARNING** ML15TTY 1.4 requires DBML15 1.3

REVISIONS:

1.   Program will now execute on a 1550 version II (firmware revision
      31) under DOS.H 2.7.

PROGRAM FILES RELEASED:

      ML15TTY/REL   Relocatable code
      ML15TTY/MKE   Chain file for linking
      ML15TTY/RFM   Print file for release form
      ML15TTY/CFG   Sample Configuration file for Line driver
      ASR33/TXT   Sample DATABUS program (text file)
      ASR33/DBC   Sample DATABUS program (Databus code)

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: ML2780 1.1

DESCRIPTION: IBM 2780 Multilink Driver

PURPOSE: D - New software package

RELEASE MEDIA: Cassette
                  Single-Sided Single Density Diskette
                  Single-Sided Double Density Diskette
                  Double-Sided Double Density Diskette
TOTAL SIZE: 192 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

EXECUTION SUPPORT:

      Software: DOS.C 2.4.2
                        DOS .E/.G 2.6.2
                        DOS.D 2.7
                        DS5 3.3 or DS6 1.1
                        LINK 2.4
                        ARC 1.7.1

      Hardware:
      Processor: 1150/1170/1800/3800/5500/6000/6600
      Minimum Size: 24K
      Disk: 1413/173X/184X/935X/936X/937X/938X/939X
      Comm: 9481 MFCA with RS-232-C modem
                        ICA (for 1800/3800) with RS-232-C modem
                        BELL 801 Automatic Calling Unit (or equivalent)
                        Min. Baud Rate: 1200 bps
                        Max. Baud Rate: 4800 bps
                        Min. RTS/CTS Delay: 8.5 ms.
                        Continuous Carrier: Yes
                        Mode: Half Duplex
                        Line: Dial/Leased, Point-to-Point

      5500/6600 Partition Supervisor Compatible: No

RELEASE ITEMS: MODEL CODE   RELEASE
    User's Guide: 50743   59 Pages
    Program Media: 20898   1 DMF Cassette
    Program Media: 20896   1 SS/SD Diskette
    Program Media: 40502   1 SS/DD Diskette
    Program Media: 40503   1 DS/DD Diskette

DETAILED DESCRIPTION:

    ML2780 is a point-to-point line driver for MULTILINK. ML2780
emulates an IBM 2780 in non-transparent binary synchronous mode at
speeds up to 4800 baud. One DATASHARE port is configured at LINK time
to control 2780 communication.

PROGRAM FILES RELEASED:

    ML2780LB/REL   Library with relocatable object modules
    MAKE2780/CHN   Link chain file
    TEST2780/TXT   Sample DATABUS program
    ML2780/RFM   Program Release Form print file

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: MP 1.1

DESCRIPTION: 1550/2150 MULTIPLAN

PURPOSE: D - New software package

RELEASE MEDIA: Single-Sided Single Density Diskette
                  Single-Sided Double Density Diskette
                  Double-Sided Double Density Diskette
TOTAL SIZE: 480 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

EXECUTION SUPPORT:

      Software: DOS.H 2.6 (or later)

      Hardware:
      Processor: 1550/2150
      Minimum Size: 96K
      Disk: 15xx/93xx/14xx
      Printer: 9231/9235/9621

      1500 Concurrent Job Compatible: No

RELEASE ITEMS: MODEL CODE   RELEASE
    Simplified User's Guide: 50697   92 Pages
    Reference Manual: 61370   96 Pages
    Quick Reference Card: 61300   7 Pages
    Installation Guide: 61386   17 Pages
    Program Media: 20697   1 SS/SD Diskette
    Program Media: 20809   1 SS/DD Diskette
    Program Media: 20793   1 DS/DD Diskette
    Software: 9854   MP 1.1

NOTE: When ordering, please include model code for Software and model
code for desired media.

DETAILED DESCRIPTION:

MULTIPLAN is a tool for generating budgets, preparing payrolls, managing inventory controls and capturing personnel data. MULTIPLAN offers a manager, secretary, professional or other originator the ability to generate complicated tables and charts, and has the capability of automatically adjusting the values of related fields when updates are made. This capability makes it attractive for financial modeling applications.

PROGRAM FILES RELEASED:

```
MP/RFM        Release Form Print File
MP/CMD        System Loader and Interpreter Modules
MPHLP/TMP     Help Messages
```

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: PS66 2.2

DESCRIPTION: 6600 DOS Partition Supervisor

PURPOSE: A - Corrects problems (bugs)

RELEASE MEDIA: Cassette
TOTAL SIZE: 72 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: PS66 2.1

EXECUTION SUPPORT:

```
    Software:
                        DOS.E 2.6.2
                        DOS.D 2.7

    Hardware:
     Processor:     6600
     Minimum Size:  120K
     Disk:          935X/937X/9374/939X
     Printer:       Local/Servo
     Other:
```

```
RELEASE ITEMS:       MODEL CODE   RELEASE
    User's Guide:    50292        Previously Released
    Program Media:   20416        1 DMF Cassette
```

DETAILED DESCRIPTION:

PS66 is a 6600 dual-partition supervisor for DOS.D and DOS.E systems. PS66 provides virtual-machine type facilities for two resident partitions. This permits concurrent execution of many DOS programs.

REVISIONS:

1. Replaced scheduler with one that has full recursion.

2. Fixed bug with CHACT bit in DOSFLAG.

3. Added DOSFUNCTION 6 SUBFUNCTIONS 4 and 5.

PROGRAM FILES RELEASED:

```
    PS66/CMD        This is the DOS loadable object file.
    PS66/RFM        Program release form print file
```

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: REMDOS15 1.1

DESCRIPTION: 1500/1550/2150 Remote DOS Maintenance Program

PURPOSE: D - New software package

RELEASE MEDIA: Single-Sided Single Density Diskette
                 Single-Sided Double Density Diskette
                 Double-Sided Double Density Diskette
TOTAL SIZE: 168 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: NONE

EXECUTION SUPPORT:

```
    Software:        DOS.H 2.7
                     Hardware:
    Processor:       1500/1550/2150
    Minimum Size:    32K
    Disk:            15xx/93xx/14xx
```

1500 Concurrent Job Compatible: No

```
RELEASE ITEMS:       MODEL CODE   RELEASE
    User's Guide:    50745        17 Pages
    Program Media:   20697        1 SS/SD Diskette
    Program Media:   20809        1 SS/DD Diskette
    Program Media:   20793        1 DS/DD Diskette
    Software:        20900        REMDOS15 1.1
```

NOTE: When ordering, please include model code for software, and model codes for desired media.

DETAILED DESCRIPTION:

REMDOS15 (1500/1550/2150 REMOTE MAINTENANCE DOS) allows a Datapoint processor operating as a master to control the display and keyin of another Datapoint processor operating as a slave for maintenance purposes. Any command keyed in at the master is transmitted to the slave which executes as if the command had been keyed in at the slave processor. All data that would normally be displayed at the slave processor is displayed at the master. Text files also may be sent and received by the master to the slave and master operator.

PROGRAM FILES RELEASED:

RDOSMAST/CMD	Absolute REMDOS15 Master Command Library
RDOSSLAV/CMD	Absolute REMDOS15 Slave Command Library
RDOSMAST/REL	Relocatable COM-Driver for REMDOS15 Master
RDOSSLAV/REL	Relocatable COM-Driver for REMDOS15 Slave
REMDOS15/RFM	Release Form print file.

DATAPOINT SOFTWARE PRODUCTS DIVISION

SYSTEM RELEASE FORM

NOTE: LICENSE REQUIRED

SYMBOL/VER.REV: S1500 3.3

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 3.2

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 3.3, Model Code 40291, consists of five diskettes containing the following Datapoint released programs.

Diskette 1 of 5
    DOS.H   2.7   1500 Disk Operating System

Diskette 2 of 5
    S1500/RFM   S1500 Release Form
    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
CC378015	2.2	Concurrent 3780 Emulator

Diskette 3 of 5
DBCMP15	3.2	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
LOAD15	3.1	1500/1550 Load Backup Utility

Diskette 4 of 5
DS1500	1.2	1500 DATASHARE

Diskette 5 of 5
CCDP15	4.1	Concurrent DATAPOLL Program
CC278015	2.2	Concurrent 2780 Emulator

    The 1500 Software system, S1500 3.3, Model Code 40464, consists of two diskettes containing the following Datapoint released programs.

Diskette 1 of 2
DOS.H	2.7	1500 Disk Operating System
LIBSYS15	1.3	System Library Maintenance Utility
JOB15	3.1	Concurrent Job Loader
S1500/RFM		S1500 Release Form
CC378015	2.2	Concurrent 3780 Emulator
CHARIN15	2.1	International Character Set Generator
FCOPY15	1.1	1550 Inter-Density Diskette File Copy
DPS15M	4.1	DATAPOLL Synchronous Disk Master Program
DPS15S	4.1	DATAPOLL Synchronous Disk Spooling Program
CCDP15	4.1	Concurrent DATAPOLL Programs
PRINT15	3.1	Concurrent Print Program

Diskette 2 of 2
DS1500	1.2	1500 DATASHARE
DBCMP15	3.2	DATABUS Compiler
DCDFMT15	1.4	Diskette Converter
UNITRM15	1.5	Universal Terminal Emulator
DB15	2.4	DATABUS Interpreter
CC278015	2.2	Concurrent 2780 Emulator
LINK15	1.2	1500 Linking Editor for Relocatable Modules
LOAD15	3.1	1500/1550 Load Backup Utility

    The 1500 Software system, S1500 3.3, Model Code 40456, consists of two diskettes containing the following Datapoint released programs.

Diskette 1 of 2
DOS.H	2.7	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		S1500 Release Form
CC378015	2.2	Concurrent 3780 Emulator

Diskette 2 of 2
DS1500	1.2	1500 DATASHARE
DBCMP15	3.2	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
LOAD15	3.1	1500/1550 Load Backup Utility

REVISIONS:

1.   Updated DOS.H 2.6.1 to DOS.H 2.7.

2.   DBCMP15 3.1 updated to 3.2.

3.   DS1500 1.1 updated to 1.2.

4.   LOAD15 3.1 added.

DATAPOINT SOFTWARE PRODUCTS DIVISION

PROGRAM RELEASE FORM

NOTE: LICENSE REQUIRED

The software item documented on this form is the property of Datapoint Corporation and may be used or transferred only pursuant to the terms of a license agreement between Datapoint and the user.

SYMBOL/VER.REV: UPS 2.2

DESCRIPTION: Utility Partition Supervisor

PURPOSE: A - Corrects problems (bugs)

RELEASE MEDIA: Cassette
TOTAL SIZE: 72 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: UPS 2.1

EXECUTION SUPPORT:

        Software: DOS.D 2.7
                        DOS.E 2.6.2
                        DS5 3.2
                        DS6 1.1 and up

        Hardware:
         Processor: 6600
         Minimum Size: 120K
         Disk: 935X/936X/937X

        5500/6600 Partition Supervisor Compatible: No

RELEASE ITEMS: MODEL CODE   RELEASE
    User's Guide: 50401   Previously Released
    Program Media: 20557   1 DMF Cassette

DETAILED DESCRIPTION:

     Utility Partition Supervisor (UPS) allows a user to efficiently run on a 6600, DS5 3.2 or DS6 1.1 concurrently with certain other utility programs, such as DBCMPLUS, FASTSORT, INDEX, and most other DOS utilities. Other languages may be run concurrently with DATASHARE with some restrictions as documented in the user's guide. UPS 2.2 and DS6 together, now supports the 256K 6600 processor.

REVISIONS:

** 2.2 **

1.   Added recursion to the scheduler.

2.   Fixed problem with variable partition base register being loaded with incorrect value.

3.   Corrected error message displayed if operator attempts to bring up UPS while ARC is active.

    NOTE:

        Page 2-1 of User's Guide is incorrect in stating that DATASHARE must be configured in the fixed partition while running under UPS. DS5 and DS6 should both now be configured separately from UPS.

PROGRAM FILES RELEASED:

    UPS/RFM   Program Release Form print file
    UPS/CMD   UPS program
    UPSTIME/CMD   UPS time slice set program

RELEASED BY:_____   DATE:_____

TESTED BY:_____   DATE:_____

APPROVED BY:_____   DATE:_____