



SOFTWARE RELEASE SUMMARIES

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DATAPOINT CORPORATION

SOFTWARE RELEASE FORMS

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This issue contains the following Software Release Forms:

ARC15	1.1	Attached Resource Computer System for the 1560
DBCMP15	3.3	1500/1550/1560/2150/2160 DATABUS Compiler
DOS.H	2.8	1500 Series Disk Operating System
MP H	1.2	Multiplan

DATAPoint SOFTWARE PRODUCTS DIVISION

RELEASE FORM

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SYMBOL/VER.REV: ARC15 1.1

DESCRIPTION: Attached Resource Computer System
For The 1560 Processor

PURPOSE: D - New software package

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

TOTAL SIZE: 408 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: None

FILE PROCESSOR
EXECUTION SUPPORT:

Software: DOS.H 2.8

Hardware:

Processor: 1560
Minimum Size: 128K
Disk: 9310/9313/9314/9315/9316/9320
Comm: 1560 ARCNET INTERFACE
Rom: Version 32 (Decimal) or later

DOS.H Concurrent Job Compatible: No

APPLICATIONS PROCESSOR
EXECUTION SUPPORT:

Software: DOS.H 2.8
LIBSYS15 1.3

Hardware:

Processor: 1560
Minimum Size: 64K
Comm: 1560 ARCNET INTERFACE
Rom: Version 32 (Decimal) or later

DOS.H Concurrent Job Compatible: Yes

RELEASE ITEMS:	MODEL CODE	RELEASE
User's Guide:	50768	100 Pages
Program Media:	20697	1 SS/SD Diskette
Program Media:	20809	1 SS/DD Diskette
Program Media:	20793	1 DS/DD Diskette
Software:	29877	ARC15 1.1

DETAILED DESCRIPTION:

ARC15 is the adaptation of DOS.D/ARC for the 1560 series processor.

ARC15 makes it possible to construct a highly flexible and powerful dispersed multiprocessing system using DATAPOINT's 1560 series processors. Anywhere from 2 to 255 1560 processors may be connected into a single network. 1560 processors may participate in one and only one network at a time; conjoint 1560 networks are not possible.

1560 processors may be connected to existing DOS.D/ARC and RMS/ARC networks with no degradation or modification to the existing networks. The DOS.H "MOUNT15" command allows mounting of DOS.D/ARC and DOS.H/ARC15 remote volumes. No communications with RMS networks is possible.

Any DATAPOINT 1560 processor with at least 128K of memory, at least one local hard disk system (9310/9313/9314/9315/9316/9320), and the 1560 ARCNET interface may be configured as an ARC15 file processor. Local diskettes are not supported by the file processor. Any DATAPOINT 1560 with at least 64K of memory and the 1560 ARCNET interface may participate as an ARC15 applications processor. All disk and diskette formats supported by DOS.H 2.8 are supported locally by the applications processor.

Both the file processor and the applications processor require DOS.H 2.8 or a later version of DOS.H, and both require 1560 processors with a minimum ROM version of 32 (decimal).

PROGRAM FILES RELEASED:

ARC15AP/ABS ARC15 applications processor absolute library contains:
 INITAPRS ARC15 initialization module
 MOUNTOV1 ARC15 applications processor volume locate module
 NETAPRES ARC15 applications processor resident module

ARC1D15/CMD ARC15 Codeword Maintenance Command

AUTCLR15/CMD User' Auto-Execute Clearing Command

INSTALAP/CHN ARC15 Applications Processor installation chain file

PRTVOL15/CMD Volume write protect change command

ARC15/CMD ARC15 file processor absolute library contains:
 ARCCMD ARC15 file processor resident module
 GENDLL ARC15 generic down-line load module
 DOSDLL ARC15 DOS.H down-line load module

ARC15/RFM Release form print file

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PROGRAM RELEASE FORM

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SYMBOL/VER.REV: DOS.H 2.8

DESCRIPTION: 1500 Series 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: 1740 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: DOS.H 2.7 & DOS.H 2.7.1

EXECUTION SUPPORT:

Software: LIBSYS15 1.3

Hardware:

Processor: 1500/1550/2150/1560/2160
(1500 Series)

Minimum Size: 32K

Printer: Serial

Disk: 9310/9320; 1542/1543/1402; 1401/1403/1404
9313/9314/9315/9316

RELEASE ITEMS:	MODEL CODE	RELEASE
User's Guide:	50308	400 Pages
Program Media:	40279	2 SS/SD Diskettes
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 four logical drive, two logical drive, and one logical drive 9310/9313/9314/9315/9320 disk format. One to four 9310/9313/9314/9315/9316/9320 disks are supported on 64k+ machines. Supports one to two 154x or 1402 diskette controllers on 1500/1550 processors, and one to four 1401/1403/1404 diskette controllers on 1550/1560 processors. One 1543 and one 1402, or two 1402 diskette controllers are supported on 1560 processors.

VISIONS:

*** 2.8 ***

- 1). 'REMAP/CMD' HAS BEEN DELETED. THE PRINTER BAUD RATE AND 9627 PITCH CONFIGURATION FUNCTIONS OF 'REMAP' ARE NOW HANDLED BY 'CONFIG15/CMD'. THE CONFIGURATION OF EXTENDED MEMORY IN 1560 PROCESSORS IS ALSO NOW HANDLED BY 'CONFIG15'. THE LOGICAL DRIVE CONFIGURATION, DISKETTE DENSITY SELECTION, AND HARD DISK FORMAT SELECTION FUNCTIONS OF 'REMAP' ARE NOW HANDLED BY 'MOUNT15'. THESE TWO COMMANDS ARE DISCUSSED IN GREATER DETAIL IN THE DOS.H 2.8 USER'S GUIDE. YOU SHOULD TAKE TIME TO BECOME FAMILIAR WITH THESE NEW, IMPORTANT DOS.H UTILITIES.
- 2). DOS.H INITIALIZATION SUPPORTS ARC15 DOWN-LINE LOADING. IF DOS.H IS DOWN-LINE LOADED, ONLY THE REMOTE VOLUME DOWN-LINE LOADED FROM IS INITIALLY MOUNTED; NO LOCAL DRIVES, DISKS OR DISKETTES, ARE INITIALLY MOUNTED.
- 3). THE SYSTEM PRINTER BAUD RATE IS PRESERVED OVER SOFT-BOOTS; THE SYSTEM PRINTER BAUD RATE IS ONLY RE-INITIALIZED BY THE 'CONFIG15' UTILITY OR BY A MANUAL BOOT.
- 4). THE 93XX DISK DRIVERS IN ARE NOW AT THE DOS.H 2.6 SIZE OF 1.5K. THE DOS.H 2.8 UPPER MEMORY MAPPING IS:

0177,000 - 0177,777 : GENERIC MIXED MEDIA SUPPORT MODULE
0174,000 - 0176,777 : 93XX DISK SUPPORT (IF CONFIGURED)
0173,000 - 0173,777 : 1401/1403/1404 SINGLE DENSITY SUPPORT (IF CONFIGURED)
0170,000 - 0172,777 : ARC15 SUPPORT (IF CONFIGURED)
- 5). THE DOSGUP/REL FILE HAS EQUATES FOR THE SIZES OF THE ABOVE HIGH-MEMORY MODULES FOR USE IN LINKING PRODUCTS.
- 6). APP: SYSTEM FILES MAY NOT BE APP'ED TO A REMOTE VOLUME. NO LONGER DEFAULTS MISSING THIRD FILESPEC TO FIRST FILESPEC.
- 7). BACKUP: THE CONTROLLER-TO-CONTROLLER BACKUP TIMINGS HAVE BEEN IMPROVED ON THE 9313/9314/9315/9316 FIXED DISK SYSTEMS. BACKUPS ARE DISALLOWED TO OR FROM A REMOTE VOLUME, AND TO THE BOOTED DRIVE.
- 8). CHANGE: NOW DETECTS INVALID DRIVE SPECIFICATION. 'FILE NAME MISSING' MESSAGE NOW READS 'FILE NOT FOUND'. EXAMPLE COMMAND LINE DISPLAYED IF COMMAND LINE ENTERED INCORRECTLY.
- 9). CLOCK: A NEW OPTION ';A' FORCES SEARCH OF ALL ONLINE REMOTE VOLUMES FOR AN ACTIVE 'ARCCLOCK/TXT' AND, IF FOUND, THAT TIME AND DATE IS DISPLAYED FOR POSSIBLE INSTALLATION AS THE CURRENT TIME AND DATE. IF ARC15 IS INACTIVE, SPECIFICATION OF THIS OPTION RESULTS IN AN 'INVALID OPTION' ERROR MESSAGE. IF 'ARCCLOCK/TXT' IS UNAVAILABLE, SPECIFICATION OF THIS OPTION RESULTS IN THE ERROR MESSAGE 'ARCCLOCK/TXT UNAVAILABLE' AND THE TIME AND DATE ARE REQUESTED MANUALLY. EXAMPLE FORMATS ARE NOW DISPLAYED FOR MANUAL SETTING OF THE TIME AND DATE.
- 10). CONFIG15: 'CONFIG15' IS A NEW UTILITY THAT PERFORMS THE PRINTER BAUD RATE SELECTION, 9627 PRINTER CONFIGURATION, AND 1560 EXTENDED MEMORY ALLOCATION

FUNCTIONS OF THE DOS.H 2.7 'REMAP' COMMAND. SUPPORT ADDED FOR MODEL CODE 9628 PRINTERS, INCLUDING DEFAULT OR CORRESPONDENCE QUALITY FONT SELECTION. 'CONFIG15' IS DISCUSSED IN DETAIL IN THE DOS.H 2.8 USER'S GUIDE.

- 11). COPY: A FASTER, MORE EFFICIENT COPY ALGORITHM HAS BEEN IMPLEMENTED. THE TOTAL NUMBER OF SECTORS COPIED IS NOW DISPLAYED. A FILE MAY NOW BE COPIED TO ITSELF. FAILURE OF PRE-COPY SPACE ALLOCATION DOES NOT ABORT THE COPY IF THE "E" OR "F" OPTIONS ARE SPECIFIED. WHEN ARC15 IS ACTIVE, COPYING OVER SYSTEM FILES THAT RESIDE ON A REMOTE VOLUME IS DISALLOWED. NO LONGER ABORTS COPY IF PARITY ERROR DETECTED, BUT INSTEAD DISPLAYS DRIVE NUMBER AND LRN OF ERROR, SETS THE 'ABTIF' BIT, AND CONTINUES COPY.
- 12). DOSGEN: ALL 'DOSGEN' TIMES HAVE BEEN IMPROVED. AN INTERNAL COPY ALGORITHM HAS BEEN IMPLEMENTED; 'DOSGEN' NO LONGER CHAINS TO DU FILE COPIES. REMOTE VOLUMES MAY NOT BE DOSGENED. CORRECTLY INITIALIZES DOUBLE DENSITY DISKETTES TO SINGLE DENSITY IN ALL CASES. IF 'N' OPTION SPECIFIED, ONLY 'MAIN' AND 'SYSTEM' SUBDIRECTORIES PLACED ON OUTPUT DRIVE.
- 13). DSKCHK15: THE 'FIX' OPTION IS DEACTIVATED IF THE SPECIFIED LOGICAL DRIVE IS A REMOTE VOLUME.
- 14). DUMP: 'DUMP' DISALLOWS DUMPING FILES BY PFN ACROSS SUBDIRECTORY BOUNDARIES. THE ERROR MAP SECTORS ON THE 9313/9314/9315/9316 SERIES FIXED DISKS MAY BE INSPECTED BY SELECTING A LOGICAL DRIVE CONTAINED ON A FIXED DISK CONTROLLER, BY ENTERING A '.' AT LEVEL TWO, THE FILE NAME ENTRY LEVEL.
- 15). FILES: ACCEPTS '*' WHEN PROMPTING FOR OUTPUT FILE SPEC TO CAUSE RETURN TO DOS.
- 16). FIX: 'FIX' NOW ALLOWS FIXING OF ABSOLUTE LIBRARIES. IF THE FILE SPECIFIED ON THE 'FIX' COMMAND LINE IS AN ABSOLUTE LIBRARY, ITS MEMBERS ARE DISPLAYED AND YOU ARE REQUESTED TO ENTER THE NAME OF THE MEMBER TO FIX. AN ASTERISK MAY BE ENTERED AT THIS PROMPT TO RETURN TO DOS. IF THE MEMBER NAME ENTERED IS NOT FOUND IN THE LIBRARY, 'FIX' DISPLAYS THE MESSAGE "MEMBER NOT FOUND" AND PROMPTS FOR A MEMBER NAME ONCE AGAIN. ONCE A VALID MEMBER NAME HAS BEEN ENTERED, 'FIX' OPERATES AS IN 2.7. AN INFORMATION MESSAGE IS DISPLAYED IF THE FILE SELECTED FOR FIX'ING IS WRITE PROTECTED.
- 17). HELP: ALL HELP SCREENS HAVE BEEN UPDATED. THE SYSTEM CONFIGURATION DISPLAY HAS BEEN EXPANDED. FULLY COMPATIBLE WITH 'REMDOS15'.
- 18). INDEX: 'INDEX' NOW OPERATES PROPERLY UNDER 'REMDOS15'.
- 19). KILL: 'KILL' DOES NOT ALLOW DELETION OF FILES BY PFN ACROSS SUBDIRECTORY BOUNDARIES. AN ATTEMPT TO DELETE A SYSTEM FILE IS TRAPPED BY 'KILL', INSTEAD OF ABORTING WITH A DOS ERROR MESSAGE. THE INTERACTIVE FILENAME ENTRY FORMAT HAS BEEN CHANGED; THE FILENAME MAY BE SPECIFIED AS A NORMAL DOS FILESPEC, WITHOUT HAVING TO BE POSITIONAL. SOME OF THE 'KILL' MESSAGE HAVE BEEN MODIFIED FOR CLARITY.
- 20). MOUNT15: 'MOUNT15' IS A NEW UTILITY THAT REPLACES THE DOS.H 2.7 'REMAP' COMMAND IN EVERY ASPECT OF LOGICAL DRIVE MANIPULATION. 'MOUNT15' ALSO PROVIDES THE ARC15 APPLICATIONS PROCESSOR INTERFACE. 'MOUNT15' IS DISCUSSED IN DETAIL IN THE DOS.H 2.8 USER'S GUIDE.

- 21). NAME: 'NAME' CORRECTLY ENQUEUES SYSTEM TABLES WHEN EFFECTING A NAME OR SUBDIRECTORY CHANGE.
- 22). PUTIPL: 'PUTIPL' DISALLOWS EXECUTION ON REMOTE VOLUMES. A NEW OPTION HAS BEEN ADDED TO DELETE THE IPL ON HARD DISKS, WITHOUT DESTROYING THE HARD DISK FORMAT INFORMATION CONTAINED IN THE IPL. THIS OPTION MAY BE USEFUL IN DISASTER RECOVERY PROCEDURES, WHERE IT IS NECESSARY TO BYPASS THE 1550 HARD DISK BOOT ALGORITHM AND BOOT FROM DISKETTE. SPECIFY ';D' ON THE 'PUTIPL' COMMAND LINE TO DELETE A HARD DISK IPL. IF ';D' IS SPECIFIED, YOU ARE PROMPTED FOR VERIFICATION BEFORE THE IPL IS ACTUALLY DELETED.
- 23). PUTVOLID: WRITING OF VOLIDS TO REMOTE VOLUMES IS DISALLOWED. 'PUTVOLID' PRESERVES THE SECOND HALF OF THE VOLID SECTOR, SO AS NOT TO DESTROY ANY ARC15 CONFIGURATION INFORMATION THAT MIGHT BE THERE.
- 24). REMAP: 'REMAP' HAS BEEN DELETED AND REPLACED BY 'CONFIG15' AND 'MOUNT15'.
- 25). SORT: 'SORT' NO LONGER LOSES SECONDARY RECORDS, OUTPUTS PARTIAL OR ALTERED PRIMARY RECORDS, OR IGNORES KEY SPECIFICATIONS DURING PRIMARY RECORD SORTS. SECONDARY RECORD SORTS, INCLUDING DESCENDING KEY SORTS, FUNCTION PROPERLY. MULTIPLE CONSECUTIVE SPACE COMPRESSION WITHIN RECORDS IS HANDLED PROPERLY. RESULTING LIMITED OUTPUT FILE IS OF SMALLEST SIZE POSSIBLE. PRIMARY RECORD TEXT SPECIFIED FOR LIMITED OUTPUT IS NOT LOST DURING MERGE PASSES. SPECIFICATION OF THE 'I' OPTION DOES NOT PRECLUDE HARDCOPY OUTPUT. TAG AND KEYTAG OUTPUT WHERE KEY SPECIFICATIONS FALL ON OR AFTER THE END OF A LOGICAL RECORD OPERATE CORRECTLY. 'SORT' NO LONGER EXECUTES IN 36K PROCESSORS WHILE CONCURRENCY IS ACTIVE.
- 26). SUR: CHANGING OF SUBDIRECTORIES ON REMOTE VOLUMES IS DISALLOWED. A NEW OPTION '/CUR' HAS BEEN ADDED TO DISPLAY ONLY THE CURRENTLY ACTIVE SUBDIRECTORY ON THE SPECIFIED DRIVE, OR ON ALL DRIVES.
- 27). UPGRADEH/28: A NEW OPTION ('COPYU') HAS BEEN ADDED TO FORCE A LIBSYS15 OF THE DOS.H SYSTEM FILE 'SYSTEM/OVL' IN ORDER TO PRESERVE ANY ARC15 APPLICATIONS PROCESSOR SOFTWARE MODULES THAT MAY BE PRESENT IN THAT LIBRARY. IF THIS OPTION IS SPECIFIED, THERE MUST BE FREE SPACE ON DRIVE ZERO EQUAL TO THE SIZE OF 'SYSTEM/OVL' SO THAT LIBSYS15 MAY CREATE ITS WORK FILE. THE OPTION TO FORCE A COPY OF UTILITY/SYS, INSTEAD OF A LIBSYS15 UPGRADE, IS NOW 'COPYU'. NEW UPGRADE PROCEDURES HAVE BEEN INSTALLED TO SUPPORT RELEASE OF DOS.H ON TWO (2) SINGLE DENSITY DISKETTES. SEE THE DOS.H 2.8 USER'S GUIDE FOR DETAILS ON UPGRADE PROCEDURES.
- 28). USER'S GUIDE: A NEW, UPDATED USER'S GUIDE IS RELEASED WITH DOS.H 2.8.

PROGRAM FILES RELEASED:

DISKETTE 1/2 OF SS/SD CONTAINS:

AUTOKEY/CMD	Automatic keyin command function
CHAIN/CMD	Program chaining command
CHAIN/OV1	CHAIN overlay 1
DSKCHK15/CMD	Logical volume repair command Library contains:
DSKCHK15	DSKCHK15 command root module
DSKCNIT	DSKCHK15 command initialization module
DSKCOVER1	DSKCHK15 command overlay 1
DSKCOVER2	DSKCHK15 command overlay 2
DSKCOVER3	DSKCHK15 command overlay 3
DSKCVR3B	DSKCHK15 command overlay 3.1
DSKCVR3C	DSKCHK15 command overlay 3.2
DSKCOVER4	DSKCHK15 command overlay 4
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 contains:
XXPROG	Mixed media support module
RES93XX	93XX Disk support module
RESDOUBL	1401/1403/1404 Diskette support module
RESINGL	1402/1542/1543 Diskette support module
SYSTEM/REL	Relocatable library for mixed-media support contains:
SDRES	1401/1403/1404 Single Density support module
UTILITY/LNK	Relocatable LINKing loader
UPGRADEH/28	Chain file to upgrade existing systems

UTILITY/SYS contains certain DOS commands:

ABTNOFF	Turn 'ABTIF' bit of DDSFLAG on or off
APP	Object file append
AUTO	Automatic command load function
BACKUP	Disk copy and defragmentation main module
BACKOV1	Backup overlay 1
BACKOV2	Backup overlay 2
BLOKEDI1	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
CONFIG15	System resource configuration command
COPY	File copy utility
DECODE	DECODE an ENCODEd file
DOSGEN	Disk/diskette generation/initialization
DUMP	Logical disk sector DUMP program
EDIT	DDS 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
MOUNT15	Logical drive MOUNT/manipulation command root
MOUNT15A	Logical drive MOUNT/manipulation command
NAME	File name change/specification utility
PUTIPL	write IPL & bootblocks to disk
PUTVOLID	write symbolic volume identification to disk
REFORMAT	Disk file reformation utility
SAPP	Text file append program
SUR	Subdirectory utility

DISKETTE 2/2 OF SS/SD CONTAINS:

DOSGUP/REL	DOS.H entry points and definitions for LINKing
DOSH/RFM	Release form print file
EBCDIC/SEQ	EBCDIC sequence file for SORT
CHAIN/CMD	Program chaining command
CHAIN/OV1	Chain overlay 1
UPGRADEH/28A	Chain file to upgrade existing systems

LP/CMD contains the following members:

HELP : HELP COMMAND MAIN MODULE
ABTNOFF : ABTNOFF COMMAND HELP SCREEN
APP : APP COMMAND HELP SCREEN
AUTO : AUTO COMMAND HELP SCREEN
AUTOKEY : AUTOKEY COMMAND HELP SCREEN
BACKUP : BACKUP COMMAND HELP SCREEN
BLOKEDIT : BLOKEDIT COMMAND HELP SCREEN
BOOT : BOOT COMMAND HELP SCREEN
BUILD : BUILD COMMAND HELP SCREEN
CAT : CAT COMMAND HELP SCREEN
CHAIN : CHAIN COMMAND HELP SCREEN
CHANGE : CHANGE COMMAND HELP SCREEN
CLOCK : CLOCK COMMAND HELP SCREEN
COMMAND : DOS COMMAND LINE HELP SCREEN
CONFIG : SYSTEM CONFIGURATION HELP SCREEN
CONFIG15 : CONFIG15 COMMAND HELP SCREEN
COPY : COPY COMMAND HELP SCREEN
DECODE : DECODE COMMAND HELP SCREEN
DOSGEN : DOSGEN COMMAND HELP SCREEN
DSKCHK15 : DSKCHK15 COMMAND HELP SCREEN
DUMP : DUMP COMMAND HELP SCREEN
EDIT : EDIT COMMAND HELP SCREEN
ENCODE : ENCODE COMMAND HELP SCREEN
FILES : FILES COMMAND HELP SCREEN
FIX : FIX COMMAND HELP SCREEN
FREE : FREE COMMAND HELP SCREEN
INDEX : INDEX COMMAND HELP SCREEN
KILL : KILL COMMAND HELP SCREEN
LIST : LIST COMMAND HELP SCREEN
MANUAL : MANUAL COMMAND HELP SCREEN
MOUNT15 : MOUNT15 COMMAND HELP SCREEN
NAME : NAME COMMAND HELP SCREEN
PUTIPL : PUTIPL COMMAND HELP SCREEN
PUTVOLID : PUTVOLID COMMAND HELP SCREEN
REFORMAT : REFORMAT COMMAND HELP SCREEN
SAPP : SAPP COMMAND HELP SCREEN
SORT : SORT COMMAND HELP SCREEN
SUR : SUR COMMAND HELP SCREEN

*THE SS/DD AND DS/DD DISKETTES CONTAIN ALL OF THE ABOVE.

DATAPoint SOFTWARE PRODUCTS DIVISION

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SYMBOL/VER.REV: DBCMP15 3.3

DESCRIPTION: 1500/1550/1560/2150/2160/ 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 3.2

EXECUTION SUPPORT:

Software: DOS.H 2.7 (or later)

Hardware:

Processor: 1500/1550/1560/2150/2160
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	300 Pages
Program Media:	20793	1 DS/DD Diskette
Program Media:	20809	1 SS/DD Diskette
Program Media:	20697	1 SS/SD Diskette
Software:	40273	DBCMP15 3.3

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. KEYIN list controls added:
 - *RD Roll Down the screen by one line
 - *DION Set 8200 to double-intensity video mode
2. DISPLAY list controls added:
 - *RD Roll Down the screen by one line
 - *DION Set 8200 to double-intensity video mode
3. An extended instructions processing module has been added to DBCMP15 consisting of the verbs: SCAN, SPLOPEN, SPLCLOSE, SFORMAT, NFORMAT, PACK, and UNPACK. These verbs cannot be supported in a 32K system. Systems with 64K memory and above provide the memory space required to support these verbs.
4. The SCAN verb allows a specified character string to be searched for within a string variable.
5. The verbs SPLUPEN and SPLCLOSE provide the capability to direct printer output to a disk file.
6. The SFORMAT and NFORMAT instructions allow the physical length of a character- or numeric-string variable to be dynamically altered.
7. The PACK instruction allows concatenating several string variables to form a new string variable.
8. The UNPACK instruction allows the contents of a string variable to be split into several character string variables.
9. The *MP list control previously set the nonexecutable code flag. The problem has been corrected in this release of DBCMP15.
10. The NORESET and GIVING clauses were added to the TRAP verb to allow the flexibility of specifying actions for specific event occurrences.
11. User Data Area expanded to 12,288 (12K) bytes.
12. The maximum length of a DATABUS program, which may be compiled, has increased to 65,024 (63.5K) bytes.

PROGRAM FILES RELEASED:

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

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SYMBOL/VER.REV: REMDOS15 1.2

DESCRIPTION: 1500/1550/2150 Remote DOS Maintenance Program

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: 168 Sectors

SOFTWARE CANCELLED BY THIS RELEASE: REMDOS15 1.1

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 1.2

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.

REVISIONS:

** 1.2 **

1. Support added for 1560 processor with Multi-Function Communications option.
2. REMDOS15 is now released as two command files only. The RDOSMAST/REL and RDOSSLAV/REL files are no longer needed.

PROGRAM FILES RELEASED:

RDOSMAST/CMD	Absolute REMDOS15 Master Command Library
RDOSSLAV/CMD	Absolute REMDOS15 Slave Command Library
REMDOS15/RFM	Release Form print file.

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PRODUCT/VER.REV: MP H 1.2

PRODUCT DESCRIPTION: Multiplan H 1.2

PURPOSE OF RELEASE: Corrects Problems - New Features

SOFTWARE CANCELED BY THIS RELEASE: Multiplan H 1.1

SOFTWARE REQUIRED: DOS.H (Version 2.7 or higher)

OPTIONAL SOFTWARE: IEUS

HARDWARE SUPPORTED:

Processors:	1550, 1560
Minimum Memory:	90k
Disks:	932X/15XX/14XX
Printers:	local

PROGRAM FILES RELEASED:

MP/CMD	Multiplan H 1.2 Command Library File
MPHLP/TMP	Multiplan H 1.2 On-line Help Manual
MP/RFM	Software Release Notification Form

MODEL CODES:

Software:	9874	Multiplan H 1.2
Media:	20697	SSSD diskette
Media:	20809	SSDD diskette
Media:	20793	DSDD diskette
Multiplan.H Manual:	50731	
Multiplan Quick Reference Guide:	61300	
Multiplan.H Kit	50772	
- Multiplan.H Manual		
- Multiplan Quick Reference Guide		

REVISIONS:

- 1 Improves performance for forward reference recalculation.
- 2 Relative references are correctly resolved when rows or columns are inserted or deleted.
(DOS SPR 10894)
- 3 Print allows specification of non-contiguous areas, such as C1,C3,C5, etc.
(DOS SPR 13325)
(DOS SPR 10951)
(DOS SPR 10710)
- 4 Locked cells may not be deleted.
(DOS SPR 10888)
- 5 XTERNAL OPEN permits the user to close a link.
(DOS SPR 10887)
- 6 The continuous and lock features do not interfere with each other.
(DOS SPR 10428)
- 7 MP now accepts references of the form "Rj:kCm:n" where j>k and/or m>n.
(DOS SPR 10403)
- 8 TRANSFER SAVE no longer implicitly updates worksheets supported by the saved worksheet.
- 9 TRANSFER SAVE performs a "failsoft" operation by writing a temporary file having the "/MPO" extension.
- 10 TRANSFER UPDATE is used to update supporting worksheets.
- 11 Serial numbers are now included at the front and back of worksheet files. These numbers are checked by TRANSFER LOAD, TRANSFER UPDATE, EXTERNAL LIST, and EXTERNAL OPEN.
- 12 TRANSFER RENAME performs a save to the new file name, using the options specified in TRANSFER OPTIONS, and deletes the old name also using these options. Only NORMAL mode files could be renamed in version 1.1.
- 13 TRANSFER DELETE to the current filename does not cause a TRANSFER CLEAR; it did in version 1.1.
- 14 EXTERNAL LIST now displays status information indication whether the supporting files are up-to-date. In addition, up to 26 levels of nesting are included in the list, along with an indication of the relationships between worksheets.

- 15 The EXTERNAL NAME command has been dropped; the information has been incorporated into the NAME command.
- 16 The EXTERNAL NAMES command has been included to permit the user to view the names, their references, and export status on the current and supporting worksheets.
- 17 The COPY commands allow a user to specify whether the values or the contents are to be copied. (Only contents could be copied in the previous version.)
- 18 When printing with expressions, additional information concerning named areas and supporting worksheets is provided.
- 19 Either a print file or a text file may be generated, as specified in the PRINT OPTIONS command. Only text files could be generated in version 1.1.
- 20 The user is now allowed to specify the number of digits for the dollar format in FORMAT CELLS and FORMAT DEFAULT CELLS. (Only 2 digits were permitted in version 1.1)
- 21 The user is allowed to specify whether negative values are to be presented with a leading minus sign, a trailing minus sign, or enclosure within parentheses in the FORMAT OPTIONS command.
- 22 The FORMAT OPTIONS command has been extended to allow the user to specify the characters to be used for the decimal point and the comma separator, as well as the monetary designator and its position (preceeding or trailing the number).
- 23 A number of monetary formatting functions (KRON, FRANC, MARK) have been included to allow textual representations in the format used for those units.
- 24 A CENTER function has been provided to allow the user to easily center text within a width.
- 25 A Standard Deviation function has been included.
- 26 A factorial function has been included.
- 27 Two depreciation functions (Sum-of-Years' Digits and Double-Declining Balance) have been included.
- 30 A Compound Interest function has been included.
- 31 An Internal Rate of Return function has been included.
- 32 Several Boolean functions (ISALPHA, ISNUMBER, ISBLANK) have been included.

- 33 Progress messages are now included during all file accesses (i.e. TRANSFER SAVE, TRANSFER LOAD, TRANSFER UPDATE, TRANSFER RENAME, EXTERNAL OPEN, EXTERNAL LIST, and PRINT GO).
- 34 A recalculation counter has been included to inform the user of activity during recalculation.
- 35 All files are enqueued (DOS).
- 36 Users are allowed to link worksheets to an unlimited depth, and permits circular loops of links. TRANSFER UPDATE and EXTERNAL LIST only manage these structures to a depth of 26.
- 37 Improvements have been made to assist in the translation of Multiplan to other languages.
- 38 Additional worksheet space was made available (approximately 1K bytes)
- 39 Worksheets built under version 1.1 are upward compatible.
- 40 The direction keys may be used to step through the sheet names in the EXTERNAL NAMES and EXTERNAL OPEN commands.
- 41 The direction keys may be used to step through names in the GOTO command.
- 42 Print margin specifications are saved in "/MOD" files.
- 43 The shifted RETURN key will move the cell pointer in the last direction travelled.
- 44 The sub-menu has been dropped from the GOTO command.
- 45 Very small numbers (e.g. 9.999999999999999E-63) are no longer displayed as very large (e.g. 1E+62) numbers.
- 46 The postfix operator % exhibited problems in the previous version such that the formula (1+18%) would be changed to (1+18)% when viewed by the EDIT command. Problem resolved.
- 47 LOOKUP and INDEX commands now work with external data.
- 48 References containing more than 20 rectangular areas no longer generate fatal errors.
- 49 EXTERNAL LIST no longer generates a fatal error when there is more information than can fit on a single screen.

- 50 The SQRT function now works for values having an even number of decimal places.
- 51 Window linkages no longer are displaced by one during horizontal scroll.
- 52 In the previous version, it required twice the necessary storage requirements for imported information during TRANSFER LOAD and EXTERNAL OPEN. This permitted worksheets to be saved that could never again be loaded. Problem resolved.
- 53 Multiplan now correctly operates on other than the first rectangular area of imported names from supporting worksheets.
- 54 Redundant blanking of output lines to the screen has been reduced.
- 55 The method used to round numbers in the previous version would generate rounding factors smaller than the smallest number and results larger than the largest number. Problem resolved.
- 56 Rounding of numbers has been made significantly faster.
- 57 Recalculation order has been improved, yielding an order of magnitude performance improvements for forward references.
- 58 The number of checks Multiplan made to determine if text is to continue to the next cell (continuous format) has been reduced by an order of magnitude.
- 59 The orientation of screen updates has been changed to minimize random screen movement.
- 60 Default conditions within commands now honor the boundary conditions of the command line (e.g. number of characters, number of rectangular areas, etc.)
- 61 Use of direction keys within a formula is now more consistent: replacement rather than insertion when generating a reference, and termination rather than reference generation when no reference is required.
- 62 In the previous version, Multiplan did not deallocate all of its temporary storage during expression evaluation, and an "insufficient memory" condition could result when there was actually sufficient room to perform the operation. Problem resolved.
- 63 Multiplan is now able to resolve the single cell reference when area references greater than a single cell

- reference are provided when a single cell reference is required.
- 64 All name and row-column references to the right of a sheet name now consistently refer to that sheet.
- 65 Multiplan now permits row-column specifications where the row is relative and the column is absolute (or vice-versa).
- 66 Boolean values are now treated in the same way as blanks and alpha text in the SUM, COUNT, and AVERAGE functions.
- 67 Functions which can deliver more than one type can now be used in expressions.
- 68 The concatenate operator now truncates to 255 characters, avoiding the potential problem of destruction of internal data structures.
- 69 Format data structures where entire rows or columns were affected were never deallocated in the previous version. Problem resolved.
- 70 Shared values (values created by COPYING a cell containing a constant) are now fully supported. In Multiplan 1.1 the SORT command and several functions did not handle these values.
- 71 The cell table is now adjusted to the necessary size following commands that would have expanded it, thereby recovering storage space.
- 72 COPY RIGHT and DOWN used to perform a copy to the source cells, potentially resulting in an "insufficient memory" condition when copying a large vector. Problem resolved.
- 73 BLANK, LOCK, and FORMAT no longer exhibit erratic behavior that was caused by invalid pointers to the cell table.
- 74 The previous name is no longer retained when a name to be exported is changed.
- 75 Relationships between imported and local names have been fixed.
- 76 Adjustment of common expressions is now properly handled during inserts of partial rows or columns.
- 77 HELP now checks for valid indices.
- 78 Management and usage of data structures is more consistent.

- 79 Only the first occurrence (left to right, top to bottom) of a shared expression (the result of copying an expression) was subject to reference adjustment during the Insert and Delete commands. Multiplan 1.2 solves this problem by adjusting a private copy of the shared expression for each cell which uses it and then creating a new shared expression for each differing result. This strategy eliminates the last user visible distinction between shared and non-shared expressions.
(DOS SPR 10894)
- 80 Under Multiplan 1.2 a relative reference like "R[-1]" may be used in a context which requires a single cell (e.g. "1+R[-1]"). The rules used to resolve the reference to a single cell are documented and apply to both relative and absolute references.
(RMS SPR 3465)
- 81 The Multiplan 1.2 Name command always provides a default for the "to refer to" field; In the cases where previous versions would omit the default, the current row and column are used.
(RMS SPR 3503)
- 82 Multiplan 1.2 improves the default selection for the "# of digits" field in the Format Cells and Format Default Cells commands. First of all the initial value for the default number of digits has been changed from 0 to 2 and, secondly, the default number of digits is used instead of 0 when Format Cells is defaulting "# of digits" given a format of DEF. The benefit is that when selecting the "\$" format the "# of digits" has, in most cases, already been defaulted to 2.
(RMS SPR 3523)
- 83 Multiplan 1.2 corrects a rounding problem which caused ROUND(0.09,1) to evaluate as 0.0 rather than 0.1. This also affects the display of numbers.
(RMS SPR 3552)
- 84 Eliminated the double cell pointer which occurred when, during reference generation via the direction keys, the cell pointer is moved from the original cell and then from the original window. The second cell pointer would appear in the cell which was current when leaving the original window.
- 85 The size of the "PRINT OPTIONS area:" field has been increased from a default of 12 and maximum of 20 to a default of 59 and a maximum of 59. This change allows the specification of more complex area references without resorting to the use of names.
(RMS SPR 4025)

- 86 The specification of a numeric value which is less than -32768 or greater than 32767 is not permitted in fields within Multiplan commands which require a numeric value (i.e. those fields which cause a "Enter a number" prompt to be displayed).
(RMS SPR 4045)
- 87 The FORMAT WIDTH command offers a proposed value of "D" if the current column width is set to default; if the width of the current column has been explicitly specified then that width is offered as the proposed value.
(RMS SPR 4090)
- 88 The FORMAT DEFAULT WIDTH command now offers the current default column width setting as the proposed value.
(RMS SPR 4090)

LIMITATIONS:

- 1 No version of Multiplan can write or read text files with lines which are longer than 250 characters (approximately, depending on the operating system). This applies to local printers as well.
(RMS SPR 3466)
- 2 Cells which 1) have no content, 2) are not locked, and 3) have not been the target of a Format Cells command that does not refer to an entire row or column are not treated the same as other cells. Specifically, these cells are never duplicated or moved by the Copy, Delete, Insert, Move, and Sort commands. This means that the format of these cells (i.e. the default format or the format specified for the entire row or column) will not be moved or duplicated. While this is an error, the creation of actual cells to hold the formats would severely impact both performance and memory utilization.
(RMS SPR 3506)
- 3 The proposed values in "ALPHA", "EDIT", "NAME to refer to", and "PRINT OPTIONS area" must always be verified before accepting them. Because the current value for each of these fields can required more display area than is available, the proposed value may be truncated from the right.
(RMS SPR 4025)
(RMS SPR 4026)
(RMS SPR 4044)
- 4 The error message "Cannot link those windows" is not appropriate when issued in response to a WINDOW LINK

command which attempts to unlink windows which are not linked or are the result of a WINDOW SPLIT TITLES. In a future Multiplan version the message, "Cannot unlink those windows", will be used.

(RMS SPR 3706)

- 5 Contrary to the documentation, the EXTERNAL LIST "status" field refers to the sheet referenced on the same display line.

(RMS SPR 4221)

- 6 Contrary to the documentation, 148 characters may be entered via the ALPHA command.

(RMS SPR 4223)

- 7 When PRINT OPTIONS expressions is set to "Yes" and PRINT OPTIONS area specifies non-adjacent columns (e.g. C1:2,C4:5), the expressions are derived sequentially (e.g. C1,C2,C3,C4) rather than per specification (e.g. C1,C2,C4,C5).

(RMS SPR 4224)

- 8 The FORMAT CELLS command treats an alignment of "-" as a particular type of alignment rather than an instruction to leave the alignment unchanged.

(RMS SPR 4507)

- 9 The HELP entry for the "FORMAT CELLS format" field does not describe the "-" option; see the reference manual for this information.

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