

IRIS R8
Operating System
PERIPHERALS HANDBOOK

POINT 
DATA CORPORATION



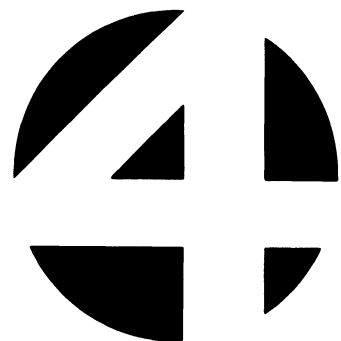
POINT 4 DATA CORPORATION

2569 McCabe Way / Irvine, California 92714

IRIS R8

Operating System PERIPHERALS HANDBOOK

Revision 02



NOTICE

Every attempt has been made to make this manual complete, accurate and up-to-date. However, all information herein is subject to change due to updates. All inquiries concerning this manual should be directed to POINT 4 Data Corporation.

P R E L I M I N A R Y

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REVISION RECORD

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<u>Revision</u>	<u>Description</u>	<u>Date</u>
01	Initial release in standard Publications format, incorporating new specification forms. Disc spec #360 has been added; disc specs 38, 45, 46, 302, 305 and 309 have been updated.	02/15/83
02	Correction of Disc ID on disc spec entry no. 30	03/28/83

LIST OF EFFECTIVE PAGES

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		39	10/24/82		
		41	08/16/82		
		43	10/25/82		
		45	02/15/83		
		46	02/15/83		
		47	08/16/82		
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				19	08/23/82

PREFACE

This handbook contains specification sheets for the various controller-disc drive combinations and terminals supported under IRIS. Every effort has been made to assure accuracy, but vendor products may change.

The disc specifications section includes indexes by both controller and drive type which reference the appropriate disc specification entry number. Each specification sheet provides the parameters required to configure a specific controller-disc drive combination.

The \$TERMS specifications section includes an index by terminal manufacturer which references the appropriate port type. Each specification sheet indicates the functions available for the terminal type and gives the name of the appropriate \$TERMS driver.

Software Change Orders are provided in Appendix A and reference the associated disc specification entry number. Appendix B contains a partial listing of the CONFIG file; Appendix C provides information on cursor tracking mode.

Related manuals include:

<u>Title</u>	<u>Pub. Number</u>
IRIS Installation/Configuration Manual	SM-030-0009
IRIS Operations Manual	SM-030-0010

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Section 1

R8 DISC SPECIFICATIONS

This section contains disc specification sheets and two indexes: the first index is a listing by controller type, the second by drive type. Each index cross-references the controllers and drives, and shows the drive capacity, the appropriate device code, and the disc specification sheet entry number.

Every effort has been made to assure accuracy but vendor products may change and impact on the interface. The user should use these specifications as a starting point but not as an absolute guide to ordering hardware.

1.1 INTRODUCTION TO DISC SPECIFICATIONS

The disc specification sheets are identified by entry number and the applicable controller and drive(s). Figure 1-1 shows the disc specification sheet form. For the purpose of explaining each item, circled numbers are used to identify each field and correspond to the items described below.

Software Change Orders referenced by the disc specifications are provided in Appendix A. (Each SCO is identified by the associated disc spec entry number.)

Drives are configured by entering octal values into the CONFIG file. A partial listing of the CONFIG file is provided in Appendix B.

1. ENTRY NO. - Entry number for the disc specification sheet. Specification sheets for the MARK 3 begin with entry number 301.
2. DISC ID - Disc identification number. This number may be different from the disc ID for earlier revisions of IRIS.
3. DATE - Date the sheet was issued.
4. CONTROLLER - Name(s) of controller(s) that meet this specification. Most disc controllers allow memory expansion above 32KW (up to 64KW i.e., 128KB). Any exceptions to this are noted.
5. DRIVE - Drives supported by the controller(s) listed.

NOTE

Prior to IRIS R8, a MARK 3 system with two different types of disc drives required that the CONFIG file be set up as though the system had two different MARK 3 disc controllers (one for each drive). Under IRIS R8, any two disc entries from 301 through 359 (as released by POINT 4) may be set up as two drives on one MARK 3 disc controller.

R8 DISC SPECIFICATION

CONTROLLER: (4)

ENTRY NO.: (1)

DISC ID: (2)

DATE: (3)

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
(5)	(6)	(7)
		No. Cyls in LU/0 (8)

DEVICE CODE (9)

DISC DRIVER ADDR (10)

BZUD ADDR (11)

LRC (12)

NPTC (13)

DFLG (14)

NTRS (15)

PHYU (16)

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM (17)

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
(18)		

NOTES

(19)

Figure 1-1. Sample Disc Specification Sheet

6. TOTAL CYLINDERS ON DISC - Total (octal) number of cylinders available for IRIS on the drive specified. Logical units may not be extended beyond this number if the disc copy (backup) program supplied by POINT 4 is to be used. Users who extend the LUs on their system beyond this value must write their own backup programs. Where a POINT 4 disc controller is used, LUs may never extend beyond this number because the cylinders at the end of the disc are reserved for chaining bad media.
7. MAXIMUM CYLINDERS OTHER LUs - Maximum (octal) number of cylinders on any logical unit other than logical unit zero for the drive specified.
8. CYLINDERS IN LU/0 - Number of cylinders on LU/0 required by R8.

NOTE

The user should not attempt to change this number. When converting from a previous revision to IRIS R8, the number of cylinders specified for LU/0 must be used.

9. DEVICE CODE - The device code is for a primary disc controller connected to an IRIS LU/0. Other controllers may be added as secondary disc controllers and they may use any device code that does not conflict in hardware (refer to the IRIS Installation and Configuration Manual).
10. DISC DRIVER ADDRESS - This is the R/W (read/write) entry address of the disc driver in the CONFIG file's Disc Controller Table. This entry is sometimes referred to as a virtual (listing) address of R/W entry of disc driver. The GUIDE program may refer to it as the LUFIX address.

NOTE

A system with two or more different disc drives which require different disc entry numbers yet use the same disc driver (e.g., both disc driver addresses are the same) cannot have different setup parameters. If this occurs and if the user has IRIS subscription service, Customer Support can assist the user in setting up the drives on one system.

If neither drive requires special setup parameters or both require the same setup parameters, GUIDE.LU may be used to set up the two drives on the system.

11. BZUD ADDRESS - This is the R/B (read/block) entry address of the disc driver in the CONFIG file's disc controller table.

NOTE

A system with two or more different disc drives which require different disc entry numbers yet use the same BZUD driver (e.g., both BZUD addresses are the same) cannot have different setup parameters. If this occurs and if the user has IRIS subscription service, Customer Support can assist the user in setting up the drives on one system.

If neither drive requires special setup parameters or both require the same setup parameters, GUIDE.LU may be used to set up the two drives on the system.

12. LRC - Logical-to-Real Cylinder conversion factor and the number of sectors per cylinder.
13. NPTC - Number of Physical Tracks per Cylinder and the number of surfaces (i.e., heads) in an SMD-type drive.
14. DFLG - Disc Flag Word in the CONFIG file's Disc Partition Table (refer to the Installation and Configuration Manual).
15. NTRS - Number of IRIS tracks for this disc (IRIS tracks/cyl * 100 + IRIS sector/track).
16. PHYU - Physical Unit Selection Constant for the selection of drive and/or platter number. An algorithm for the required calculation is provided.
17. DISC COPY PROGRAM - Appropriate version of a POINT 4-supplied backup program. If a DDCOPY program is specified, enter the source PHYU at location 401 and the destination PHYU at location 402 in memory. Some DDCOPY programs are exceptions, the particular requirements are noted. See also restrictions explained in item 6.
18. SETUP PARAMETERS - Some controllers or drivers require that special parameters be set up in the CONFIG file. Use DSP to enter the new parameters at the addresses shown. See also the note following item 11.
19. NOTES - Contains explanations or qualifications regarding information included on the specification sheet.

1.2 INDEX TO DISC SPECIFICATIONS BY CONTROLLER TYPE

This section contains an index to Disc Specifications by controller type which cross-references supported drives. It shows drive capacity in megabytes, the appropriate device code, and the disc specification sheet entry number.

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY CONTROLLER TYPE

Controller	Device Code	Drive	Megabytes <UNF> FRMT	Entry No.
AMPEX CORPORATION				
ADC-02	60	AMPEX DFR-932	<32> 27	29
ADC-02	60	AMPEX DFR-964	<64> 54	29
ADC-02	60	AMPEX DFR-996	<96> 81	29
ADC-02	60	AMPEX DM-980	<80> 67	30
ADC-02	60	BALL BD-80 SMD	<80> 67	30
ADC-02	60	CDC 9448-32 CMD	<32> 27	29
ADC-02	60	CDC 9448-64 CMD	<64> 54	29
ADC-02	60	CDC 9448-96 CMD	<96> 81	29
ADC-02	60	CDC 9762 SMD	<80> 67	30
ADC-02	60	CDS (Calcomp) T-82	<80> 67	30
ADC-400	33	DIABLO 44 Type	10	1
ADC-400	40	DIABLO 44 Type	10	23
ADC-400	73	DIABLO 44 Type	10	47
BALL COMPUTER PRODUCTS DIVISION				
BALL 3170	40	DIABLO 44 Type	<10> 12	11
DATA GENERAL CORPORATION				
DG 4046	33	DG 4047	2.5	32
DG 4046	40	DG 4047	2.5	49
DG 4046.....	73	DG 4047	2.5	51
DG 4234	33	DIABLO 44 Type	10	1
DG 4234	40	DIABLO 44 Type	10	23
DG 4234	73	DIABLO 44 Type	10	47
DG 6030 FLOPPY Subsystem	33	DG 6030 FLOPPY Subsystem	.3	22
DG 6030 FLOPPY Subsystem	40	DG 6030 FLOPPY Subsystem	.3	24
DG 6030 FLOPPY Subsystem	73	DG 6030 FLOPPY Subsystem	.3	48
DG 6045 Subsystem	33	DIABLO 44 Type	10	1
DG 6045 Subsystem	40	DIABLO 44 Type	10	23
DG 6045 Subsystem	73	DIABLO 44 Type	10	47
DG 6067 Subsystem	27	DG 6067 Subsystem	50	43
DG 6070 Subsystem	33	DG 6070 Subsystem	20	26
DIGITAL COMPUTER CONTROLS (NOW PART OF DATA GENERAL CORPORATION)				
DCC 116446	30	DIABLO 44 Type	10	5

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY CONTROLLER TYPE (Cont)

Controller	Device Code	Drive	Megabytes <UNF> FRMT	Entry No.
MINICOMPUTER TECHNOLOGY				
MCT SMC-12	60	AMPEX DFR-932	<32> 27	29
MCT SMC-12	60	AMPEX DFR-964	<64> 54	29
MCT SMC-12	60	AMPEX DFR-996	<96> 81	29
MCT SMC-12	60	AMPEX DM-980	<80> 67	30
MCT SMC-12	60	BALL BD-80 SMD	<80> 67	30
MCT SMC-12	60	CDC 9448-32 CMD	<32> 27	29
MCT SMC-12	60	CDC 9448-64 CMD	<64> 54	29
MCT SMC-12	60	CDC 9448-96 CMD	<96> 81	29
MCT SMC-12	60	CDC 9762 SMD	<80> 67	30
MCT SMC-12	60	CDS (Calcomp) T-82	<80> 67	30
MCT SMC-902	36	AMPEX DM-940	<40> 35	12
MCT SMC-902	36	AMPEX DM-980	<80> 69	13
MCT SMC-902	36	BALL BD-80 SMD	<80> 69	13
MCT SMC-902	36	CDC 9760 SMD	<40> 35	12
MCT SMC-902	36	CDC 9762 SMD	<80> 69	13
MCT SMC-902	36	CDS (Calcomp) T-82	<80> 69	13
MCT SMC-902.....	36	CDS (Calcomp) T-202	<200> 174	44
MCT TDC-802	36	CDS (Calcomp) T-25	<25> 23	7
MCT TDC-802	36	CDS (Calcomp) T-50	<50> 46	6
MCT TDC-802	36	CDS (Calcomp) T-80	<80> 67	8
MCT TDC-802	36	CDS (Calcomp) T-200	<200> 174	9
MCT TDC-802	36	CDS (Calcomp) T-300	<300> 254	10
POINT 4 DATA CORPORATION				
POINT 4 LOTUS 700	27	AMPEX DFR-932	<32> 27	36
POINT 4 LOTUS 700	27	AMPEX DFR-964	<64> 54	36
POINT 4 LOTUS 700	27	AMPEX DFR-996	<96> 80	36
POINT 4 LOTUS 700	27	AMPEX DM-940	<40> 33	38
POINT 4 LOTUS 700	27	AMPEX DM-980	<80> 67	38
POINT 4 LOTUS 700	27	AMPEX DM-9160	<160> 134	38
POINT 4 LOTUS 700	27	AMPEX DM-9300	<300> 252	39
POINT 4 LOTUS 700	27	BALL BD-80 SMD	<80> 67	38
POINT 4 LOTUS 700	27	CDC 9448-32 CMD	<32> 27	36
POINT 4 LOTUS 700	27	CDC 9448-64 CMD	<64> 54	36
POINT 4 LOTUS 700	27	CDC 9448-96 CMD	<96> 80	36
POINT 4 LOTUS 700	27	CDC 9455 LMD (LARK)	<16> 13	45
POINT 4 LOTUS 700	27	CDC 9710	<80> 67	38
POINT 4 LOTUS 700	27	CDC 9715	<168> 134	46
POINT 4 LOTUS 700	27	CDC 9760 SMD	<40> 33	38
POINT 4 LOTUS 700	27	CDC 9762 SMD	<80> 67	38
POINT 4 LOTUS 700	27	CDC 9766 SMD	<300> 255	39
POINT 4 LOTUS 700	27	CDS(Calcomp) C2048>(8")	<48> 40	36
POINT 4 LOTUS 700	27	CDS (Calcomp) T-82	<80> 66	38
POINT 4 LOTUS 700	27	CDS (Calcomp) T-302	<300> 252	39
POINT 4 LOTUS 700	27	CDS (Calcomp) T-306	<300> 255	39
POINT 4 LOTUS 700	27	FUJITSU M-2283	<135> 107	41
POINT 4 LOTUS 700	27	FUJITSU M-2284	<168> 134	46
POINT 4 LOTUS 700	27	OKIDATA 3306	<80> 66	37

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY CONTROLLER TYPE (Cont)

Controller	Device Code	Drive	Megabytes <UNF> FRMT	Entry No.
POINT 4 DATA CORPORATION (Continued)				
POINT 4 MARK 3	52	AMPEX DFR-932	<32> 27	301
POINT 4 MARK 3	52	AMPEX DFR-964	<64> 54	301
POINT 4 MARK 3	52	AMPEX DFR-996	<96> 80	301
POINT 4 MARK 3	52	AMPEX DM-940	<40> 33	305
POINT 4 MARK 3	52	AMPEX DM-980	<80> 67	305
POINT 4 MARK 3	52	AMPEX DM-9160	<160> 134	305
POINT 4 MARK 3	52	AMPEX DM-9300	<300> 252	306
POINT 4 MARK 3	52	BALL BD-80 SMD	<80> 67	305
POINT 4 MARK 3	52	BASF 6172	<20> 20	304
POINT 4 MARK 3	52	BASF 6173	<40> 34	303
POINT 4 MARK 3	52	CDC 9410 (FINCH)	<24> 20	304
POINT 4 MARK 3	52	CDC 9448-32 CMD	<32> 27	301
POINT 4 MARK 3	52	CDC 9448-64 CMD	<64> 54	301
POINT 4 MARK 3	52	CDC 9448-96 CMD	<96> 80	301
POINT 4 MARK 3	52	CDC 9455 LMD (LARK)	<16> 13	302
POINT 4 MARK 3	50	CDC 9457 (LARK)	<50> 41	302
POINT 4 MARK 3	50	CDC 9710	<80> 67	305
POINT 4 MARK 3	50	CDC 9715	<168> 134	309
POINT 4 MARK 3	52	CDC 9760 SMD	<40> 33	305
POINT 4 MARK 3	52	CDC 9762 SMD	<80> 67	305
POINT 4 MARK 3	52	CDC 9766 SMD	<300> 255	306
POINT 4 MARK 3	52	CDS (Calcomp) T-82	<80> 66	305
POINT 4 MARK 3	52	CDS (Calcomp) T-302	<300> 252	306
POINT 4 MARK 3	52	CDS (Calcomp) T-306	<300> 255	306
POINT 4 MARK 3	52	FUJITSU M-2283	<135> 107	308
POINT 4 MARK 3	52	FUJITSU M-2284	<168> 134	309
POINT 4 MARK 3	52	FUJITSU M-2312-K	<84> 67	307
POINT 4 MARK 3	52	NEC 2230	<42> 34	305
POINT 4 MARK 3	52	OKIDATA 3306	<80> 66	310
POINT 4 MARK 3	52	PRIAM 3450	<35> 29	303
POINT 4 701	33	DIABLO 44 Type	10	1
POINT 4 701	40	DIABLO 44 Type	10	23
POINT 4 701	73	DIABLO 44 Type	10	47
RANDAL DATA SYSTEMS				
RANDAL DISC CONTROLLER	33	DIABLO 44 Type	10	50
RANDAL DISC CONTROLLER	40	DIABLO 44 Type	10	52
RANDAL DISC CONTROLLER	73	DIABLO 44 Type	10	53
WESTERN PERIPHERALS				
DC-220-10	33	DIABLO 44 Type	10	1
DC-220-10	40	DIABLO 44 Type	10	23
DC-220-10	73	DIABLO 44 Type	10	47

1.3 INDEX TO DISC SPECIFICATIONS BY DRIVE TYPE

This section contains an index to Disc Specification by drive type which cross-references supported controllers. It shows drive capacity in megabytes, the appropriate device code and the disc specification sheet entry number.

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY DRIVE TYPE

Drive	Megabytes <UNF> FRMT	Controller	Device Code	Entry No.
AMPEX CORPORATION				
DFR-932	<32> 27	AMPEX ADC-02	60	29
DFR-932	<32> 27	MCT SMC-12	60	29
DFR-932	<32> 27	POINT 4 MARK 3	52	301
DFR-932.....	<32> 27	POINT 4 LOTUS 700	27	36
DFR-964	<64> 54	AMPEX ADC-02	60	29
DFR-964	<64> 54	MCT SMC-12	60	29
DFR-964	<64> 54	POINT 4 MARK 3	52	301
DFR-964.....	<64> 54	POINT 4 LOTUS 700	27	36
DFR-996	<96> 81	AMPEX ADC-02	60	29
DFR-996	<96> 81	MCT SMC-12	60	29
DFR-996	<96> 80	POINT 4 MARK 3	52	301
DFR-996.....	<96> 80	POINT 4 LOTUS 700	27	36
DM-940	<40> 35	MCT SMC-902	36	12
DM-940	<40> 33	POINT 4 MARK 3	52	305
DM-940.....	<40> 33	POINT 4 LOTUS 700	27	38
DM-980	<80> 67	AMPEX ADC-02	60	30
DM-980	<80> 67	MCT SMC-12	60	30
DM-980	<80> 69	MCT SMC-902	36	13
DM-980	<80> 67	POINT 4 MARK 3	52	305
DM-980.....	<80> 67	POINT 4 LOTUS 700	36	38
DM-9160	<160> 134	POINT 4 MARK 3	52	305
DM-9160.....	<160> 134	POINT 4 LOTUS 700	36	38
DM-9300	<300> 252	POINT 4 MARK 3	52	306
DM-9300	<300> 252	POINT 4 LOTUS 700	36	38
BALL COMPUTER PRODUCTS DIVISION				
BD-80 SMD	<80> 67	AMPEX ADC-02	60	30
BD-80 SMD	<80> 67	MCT SMC-12	60	30
BD-80 SMD	<80> 69	MCT SMC-902	36	13
BD-80 SMD	<80> 67	POINT 4 MARK 3	52	305
BD-80 SMD	<80> 67	POINT 4 LOTUS 700	27	38
BASF SYSTEMS CORPORATION				
BASF 6172	<20> 20	POINT 4 MARK 3	52	304
BASF 6173	<40> 34	POINT 4 MARK 3	52	303

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY DRIVE TYPE (Cont)

Drive	Megabytes <UNF> FRMT	Controller	Device Code	Entry No.
CENTURY DATA SYSTEMS (CDS, formerly Calcomp)				
C-2048 (8")	<48> 40	POINT 4 LOTUS 700	27	36
T-25	<25> 23	MCT TDC-802	36	7
T-50	<50> 46	MCT TDC-802	36	6
T-80.....	<80> 67	MCT TDC-802	36	8
T-82	<80> 67	AMPEX ADC-02	60	30
T-82	<80> 67	MCT SMC-12	60	30
T-82	<80> 69	MCT SMC-902	36	13
T-82	<80> 66	POINT 4 MARK 3	52	305
T-82.....	<80> 66	POINT 4 LOTUS 700	27	38
T-200	<200> 174	MCT TDC-802	36	9
T-202	<200> 174	MCT SMC-902	36	44
T-300.....	<300> 254	MCT TDC-802	36	10
T-302	<300> 252	POINT 4 MARK 3	52	306
T-302.....	<300> 252	POINT 4 LOTUS 700	27	39
T-306	<300> 255	POINT 4 MARK 3	52	306
T-306	<300> 255	POINT 4 LOTUS 700	27	39
CONTROL DATA CORPORATION (CDC)				
9410 (FINCH)	<24> 20	POINT 4 MARK 3	52	304
9448-32 CMD	<32> 27	AMPEX ADC-02	60	29
9448-32 CMD	<32> 27	MCT SMC-12	60	29
9448-32 CMD	<32> 27	POINT 4 MARK 3	52	301
9448-32 CMD.....	<32> 27	POINT 4 LOTUS 700	27	36
9448-64 CMD	<64> 54	AMPEX ADC-02	60	29
9448-64 CMD	<64> 54	MCT SMC-12	60	29
9448-64 CMD	<64> 54	POINT 4 MARK 3	52	301
9448-64 CMD.....	<64> 54	POINT 4 LOTUS 700	27	36
9448-96 CMD	<96> 81	AMPEX ADC-02	60	29
9448-96 CMD	<96> 81	MCT SMC-12	60	29
9448-96 CMD	<96> 80	POINT 4 MARK 3	52	301
9448-96 CMD	<96> 80	POINT 4 LOTUS 700	27	36
9455 LMD (LARK)	<16> 13	POINT 4 MARK 3	52	302
9455 LMD (LARK)	<16> 13	POINT 4 LOTUS 700	27	45
9457 LMD (LARK)	<50> 41	POINT 4 MARK 3	50	302
9710 SMD	<80> 67	POINT 4 MARK 3	50	305
9710 SMD	<80> 67	POINT 4 LOTUS 700	27	38
9715	<168> 134	POINT 4 MARK 3	50	309
9715	<168> 134	POINT 4 LOTUS 700	27	46
9760 SMD	<40> 35	MCT SMC-902	36	12
9760 SMD	<40> 33	POINT 4 MARK 3	52	305
9760 SMD.....	<40> 33	POINT 4 LOTUS 700	27	38
9762 SMD	<80> 67	AMPEX ADC-02	60	30
9762 SMD	<80> 67	MCT SMC-12	60	30
9762 SMD	<80> 69	MCT SMC-902	36	13
9762 SMD	<80> 67	POINT 4 MARK 3	52	305
9762 SMD.....	<80> 67	POINT 4 LOTUS 700	27	38
9766 SMD	<300> 255	POINT 4 MARK 3	52	306
9766 SMD	<300> 255	POINT 4 LOTUS 700	27	38

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY DRIVE TYPE (Cont)

Drive	Megabytes <UNF> FRMT	Controller	Device Code	Entry No.
DATA GENERAL CORPORATION				
DG 4047	2.5	DG 4046	33	32
DG 4047	2.5	DG 4046	40	49
DG 4047	2.5	DG 4046	73	51
DG 6030 FLOPPY Subsystem	.3	DG 6030 FLOPPY Subsystem	33	22
DG 6030 FLOPPY Subsystem	.3	DG 6030 FLOPPY Subsystem	40	24
DG 6030 FLOPPY Subsystem	.3	DG 6030 FLOPPY Subsystem	73	48
DG 6045 Subsystem	10	DG 6045 Subsystem	33	1
DG 6045 Subsystem	10	DG 6045 Subsystem	40	23
DG 6045 Subsystem	10	DG 6045 Subsystem	73	47
DG 6067 Subsystem	50	DG 6067 Subsystem	27	43
DG 6070 Subsystem	20	DG 6070 Subsystem	33	26
DIABLO SYSTEMS (XEROX)				
DIABLO 44	<10>	BALL 3170	40	11
DIABLO 44		DCC 116446	30	5
DIABLO 44		DG 4234 Type	33	1
DIABLO 44		DG 4234 Type	40	23
DIABLO 44		DG 4234 Type	73	47
FUJITSU AMERICA INC.				
M-2283	<135>	POINT 4 MARK 3	52	308
M-2283.....	<135>	POINT 4 LOTUS 700	27	41
M-2284	<168>	POINT 4 MARK 3	52	309
M-2284.....	<168>	POINT 4 LOTUS 700	27	46
M-2312-K	<84>	POINT 4 MARK 3	52	307
MICRODATA				
9000	<10>	BALL 3170	40	11
9000		DCC 116446	30	5
9000		DG 4234 Type	33	1
9000		DG 4234 Type	40	23
9000		DG 4234 Type	73	47
NIPPON ELECTRIC COMPANY - NEC INFORMATION SYSTEMS, INC.				
NEC 2230	<42>	POINT 4 MARK 3	52	305

INDEX TO R8.1 DISC SPECIFICATION SHEETS BY DRIVE TYPE (Cont)

Drive	Megabytes		Controller	Device Entry	
	<UNF>	FRMT		Code	No.
PERTEC					
D-3422 (Top-load)	<10>	12	BALL 3170	40	11
D-3422 (Top-load)		10	DCC 116446	30	5
D-3422 (Top-load)		10	DG 4234 Type	33	1
D-3422 (Top-load)		10	DG 4234 Type	40	23
D-3422 (Top-load)		10	DG 4234 Type	73	47
D-3442 (Front-load)	<10>	12	BALL 3170	40	11
D-3442 (Front-load)		10	DCC 116446	30	5
D-3442 (Front-load)		10	DG 4234 Type	33	1
D-3442 (Front-load)		10	DG 4234 Type	40	23
D-3442 (Front-load)		10	DG 4234 Type	73	47
OKIDATA CORPORATION					
3306	<80>	66	POINT 4 MARK 3	52	310
3306	<80>	66	POINT 4 LOTUS 700	27	37
PRIAM CORPORATION					
PRIAM 3450	<35>	29	POINT 4 MARK 3	52	303
WESTERN DYNEX					
6000	<10>	12	BALL 3170	40	11
6000		10	DCC 116446	30	5
6000		10	DG 4234 Type	33	1
6000		10	DG 4234 Type	40	23
6000		10	DG 4234 Type	73	47

1.4 DISC SPECIFICATION SHEETS BY ENTRY NUMBER

This section contains Disc Specification sheets for all disc controller and drive combinations supported under IRIS. The sheets are arranged in numerical order by entry number; MARK 3 entry numbers begin with 301.



R8 DISC SPECIFICATION

ENTRY NO.: 1

CONTROLLER: POINT 4 LOTUS 701¹
Data General 4234-type²

DISC ID: P410MB

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load; includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 3	626	626
No. Cyls in LU/0 200		

DEVICE CODE 33

DISC DRIVER ADDR 40162

BZUD ADDR 40004

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU (D*40000) + (P*1000)

where D = drive unit no.
P = platter or surface

Usually P=0 for removable
P=1 for fixed

DISC COPY
PROGRAM DDCOPY.1

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹POINT 4 LOTUS 701 and Western Peripherals DC-220-10 support 64K-word memory.

²DG 4234, Ampex ADC-400, and DG 6045 subsystem do not allow memory above 32K.

³Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

ENTRY NO.: 5

CONTROLLER: DCC 116446

DISC ID: DCC446

DATE: 10-25-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load); includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 1	626	626
No. Cyls in LU/0		200

DEVICE CODE 30

DISC DRIVER ADDR 51116

BZUD ADDR 46204

LRC 30

NPTC 2

DFLG 104500

NTRS 214

PHYU (D*20000) + (P*10000)
 where D = drive unit no.
 P = platter or surface

 Usually P=0 for removable
 P=1 for fixed

DISC COPY PROGRAM DDCOPY.5

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

CONTROLLER: MCT TDC-802

ENTRY NO.: 6

DISC ID: MCQT50

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDS T-50	1457	1123
		No. Cyls in LU/0 34

DEVICE CODE 36

DISC DRIVER ADDR 33016

BZUD ADDR 27404

LRC 156

NPTC 5

DFLG 40500

NTRS 1213

PHYU D + 100000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.6

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: MCT TDC-802

ENTRY NO.: 7

DISC ID: MCQT25

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDS T-25	626	626
		No. Cyls in LU/0 34

DEVICE CODE 36

DISC DRIVER ADDR 33016

BZUD ADDR 27404

LRC 156

NPTC 5

DFLG 40500

NTRS 1213

PHYU D + 100000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.7

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: MCT TDC-802

ENTRY NO.: 8

DISC ID: MCQT80

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDS T-80	1457	631
		No. Cyls in LU/0 24

DEVICE CODE 36

DISC DRIVER ADDR 33616

BZUD ADDR 30004

LRC 240

NPTC 5

DFLG 40500

NTRS 1220

PHYU D + 100000
 where D = drive unit no.
 P = platter or surface

DISC COPY PROGRAM DDCOPY.8

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: MCT TDC-802

ENTRY NO.: 9

DISC ID: MCT200

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDS T-200	1457	234
		No. Cyls in LU/0 10

DEVICE CODE 36

DISC DRIVER ADDR 34416

BZUD ADDR 30404

LRC 642

NPTC 23

DFLG 40500

NTRS 4613

PHYU D + 100000

where D = drive unit no.
P = platter or surface

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

DISC COPY PROGRAM DDCOPY.9

NOTES

R8 DISC SPECIFICATION

CONTROLLER: MCT TDC-802

ENTRY NO.: 10

DISC ID: MCT300

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDS T-300	1457	153
		No. Cyls in LU/0 5

DEVICE CODE 36

DISC DRIVER ADDR 35216

BZUD ADDR 31004

LRC 1140

NPTC 23

DFLG 40500

NTRS 4620

PHYU D + 100000
 where D = drive unit no.
 P = platter or surface

DISC COPY PROGRAM DDCOPY.10

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: BALL 3170¹

ENTRY NO.: 11

DISC ID: BA3170

DATE: 11-08-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load); includes: Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 2	626	626
No. Cyls in LU/0		156

DEVICE CODE 40

DISC DRIVER ADDR 53016

BZUD ADDR 52704

LRC 34

NPTC 2

DFLG 100500

NTRS 216

PHYU $40000 + (P*10000) + (D*1000)$
 where D = drive unit no.
 P = platter or surface

Usually P=0 for removable
 P=1 for fixed

**DISC COPY
 PROGRAM** DDCOPY.11

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The BALL 3170 Controller does not allow memory above 32K.

²Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

CONTROLLER: MCT SMC-902

ENTRY NO.: 12

DISC ID: MC9Q40

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-940 (40MB) CDC 9760 SMD (40MB)	633	615
		No. Cyls in LU/0 22

DEVICE CODE 36

DISC DRIVER ADDR 36016

BZUD ADDR 31404

LRC 245

NPTC 5

DFLG 40500

NTRS 1713

PHYU D + 100000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.12

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: MCT SMC-902

ENTRY NO.: 13

DISC ID: MC9Q80

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-980 (80MB) Ball BD-80 SMD (80MB) CDC 9762 SMD (80MB) CDS T-82 (80MB)	1457	615
		No. Cyls in LU/0 22

DEVICE CODE 36

DISC DRIVER ADDR 36016

BZUD ADDR 31404

LRC 245

NPTC 5

DFLG 40500

NTRS 1713

PHYU D + 100000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.13

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 22

CONTROLLER: DG 6030 floppy subsystem¹

DISC ID: DGFL33

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Data General 6030 floppy subsystem (.3MB)	115	115
		No. Cyls in LU/0 115 ²

DEVICE CODE 33

DISC DRIVER ADDR 41562

BZUD ADDR 41404

LRC 10

NPTC 1

DFLG 101000

NTRS 110

PHYU D*40000
where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.22

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 6030 subsystem does not allow memory above 32K.

²Sysgen from CTUTILITY requires special reduced-size LU/0 template.

R8 DISC SPECIFICATION

ENTRY NO.: 23

CONTROLLER: POINT 4 LOTUS 701¹
Data General 4234-type²

DISC ID: P41040

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load; includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 3	626	626
		No. Cyls in LU/0 200

DEVICE CODE 40

DISC DRIVER ADDR 40162

BZUD ADDR 40004

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU (D*40000) + (P*1000)
where D = drive unit no.
P = platter or surface

Usually P=0 for removable
P=1 for fixed

DISC COPY PROGRAM DDCOPY.23

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹POINT 4 LOTUS 701 and Western Peripherals DC-220-10 support 64K-word memory.

²DG 4234, Ampex ADC-400, and DG 6045 subsystem do not allow memory above 32K.

³Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

ENTRY NO.: 24

CONTROLLER: DG 6030 floppy subsystem¹

DISC ID: DGFL40

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Data General 6030 floppy subsystem (.3MB)	115	115
		No. Cyls in LU/0 115 ²

DEVICE CODE 40

DISC DRIVER ADDR 41562

BZUD ADDR 41404

LRC 10

NPTC 1

DFLG 101000

NTRS 110

PHYU D*40000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.24

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 6030 subsystem does not allow memory above 32K.

²Systemgen from CTUTILITY requires special reduced-size LU/0 template.

R8 DISC SPECIFICATION

ENTRY NO.: 26

CONTROLLER: Data General 6070 Subsystem¹

DISC ID: DG20MB

DATE: 10-25-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
DG 6070 Subsystem (20MB)	626	626
		No. Cyls in LU/0 100

DEVICE CODE 33

DISC DRIVER ADDR 50416

BZUD ADDR 50204

LRC 60

NPTC 2

DFLG 100500

NTRS 414

PHYU (D*40000) + (P*2000)

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.26

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 6030 subsystem does not allow memory above 32K.

R8 DISC SPECIFICATION

ENTRY NO.: 29

CONTROLLER: MCT SMC-12
Ampex ADC-02

DISC ID: SMC12C

DATE: 08-30-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9448 CMD (32MB, 64MB, or 96MB) Ampex DFR-932 (32MB) DFR-964 (64MB) DFR-996 (96MB)	1450	1450
No. Cyls in LU/0		140

DEVICE CODE 60

DISC DRIVER ADDR 47216

BZUD ADDR 47004

LRC 40

NPTC 1

DFLG 500

NTRS 220

PHYU (P*400) + D + (10000 if fixed)

where D = drive unit no.

P = platter or surface

32MB - P=0 remov; P=0 fixed

64MB - P=0 remov; P=0, 1 or 2 fixed

96MB - P=0 remov; P=0,1,2,3 or 4 fixed

DISC COPY PROGRAM DDCOPY.29

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 30

CONTROLLER: MCT SMC-12
 AMPEX ADC-02

DISC ID: S12S80

DATE: 03-28-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-980 (80MB) Ball BD-80 SMD (80MB) CDC 9762 SMD (80MB) CDS T-82 (80MB)	1457	630
		No. Cyls in LU/0 24

DEVICE CODE 60

DISC DRIVER ADDR 47716

BZUD ADDR 47504

LRC 240

NPTC 5

DFLG 40500

NTRS 1220

PHYU D

where D = drive unit no.
 P = platter or surface

DISC COPY PROGRAM DDCOPY.30

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: Data General 4060¹

ENTRY NO.: 32

DISC ID: DG2533

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Data General 4047 (2.5MB)	313	313
		No. Cyls in LU/0 313

DEVICE CODE 33

DISC DRIVER ADDR 40162

BZUD ADDR 40004

LRC 30

NPTC 2

DFLG 105000

NTRS 214

PHYU D*40000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.32

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 4060 controller does not allow memory above 32K.

R8 DISC SPECIFICATION

ENTRY NO.: 34

CONTROLLER:

DISC ID:

DATE: 10-26-82

DRIVE

Total Cyls
On Disc

Max Cyls
Other LUs

This entry # is currently NOT in use.		
		No. Cyls in LU/0

DEVICE CODE

DISC DRIVER ADDR

BZUD ADDR

LRC

NPTC

DFLG

NTRS

PHYU

where D = drive unit no.
P = platter or surface

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG
Address

OLD
Contents

NEW
Contents

CONFIG Address	OLD Contents	NEW Contents

DISC COPY
PROGRAM

NOTES

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 LOTUS 700¹

ENTRY NO.: 36

DISC ID: 700CMD

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9448 CMD (32MB, 64MB, or 96MB) Ampex DFR-932 (32MB) DFR-964 (64MB) DFR-996 (96MB) CDS C2048 (8", 48MB)	1462	1462
		No. Cyls in LU/0 140

DEVICE CODE 27

DISC DRIVER ADDR 43316

BZUD ADDR 43004

LRC 40

1 NPTC 1

2 DFLG 500

7 NTRS 220

PHYU (10*P) + D + (100000 if fixed)

where D = drive unit no.

P = platter or surface

32MB - P=0 remov; P=0 fixed

64MB - P=0 remov; P=0, 1 or 2 fixed

96MB - P=0 remov; P=0,1,2,3 or 4 fixed

DISC COPY PROGRAM DISCUTILITY (LOTUS)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹When ordering, specify an "F PROM" and the drive unit number.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 LOTUS 700¹

ENTRY NO.: 37

DISC ID: P40K80

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Okidata 3306 (80MB)	516	252
		No. Cyls in LU/0 10

DEVICE CODE 27

DISC DRIVER ADDR 20264

BZUD ADDR 20004

LRC 600

NPTC 14

DFLG 40500

NTRS 3020

PHYU D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (LOTUS)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹When ordering, specify an "L PROM" and the drive unit number.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 LOTUS 700¹

ENTRY NO.: 38

DISC ID: P480MB

DATE: 02-15-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-940 (40MB)	626	631
DM-980 (80MB)	1462	
DM-9160 (160MB)	3150	
Ball BD-80 SMD (80MB) ²	1462	
CDC 9760 SMD (40MB)	626	
9762 SMD (80MB)	1462	
CDC 9710 (80MB) ²	1462	
CDS T-82 (80MB) ²	1452	
No. Cyls in LU/0		24

DEVICE CODE 27

DISC DRIVER ADDR 21664

BZUD ADDR 21404

LRC 240

NPTC 5

DFLG 40500

NTRS 1220

PHYU D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (LOTUS)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹When ordering, specify an "E PROM" and the drive unit number.

²Format and copy Ball BD-80 and CDC 9710 using entry for CDC 9762.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 LOTUS 700¹

ENTRY NO.: 39

DISC ID: P4300M

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-9300 (300MB)	1452	153
CDC 9766 SMD (300MB)	1462	
CDS T-302	1452	
CDS T-306 ²	1462	
No. Cyls in LU/0		6

DEVICE CODE 27

DISC DRIVER ADDR 23264

BZUD ADDR 23004

LRC 1140

NPTC 23

DFLG 40500

NTRS 4620

PHYU D

where D = drive unit no.
P = platter or surface

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

	CONFIG Address	OLD Contents	NEW Contents
DISC COPY PROGRAM DISCUTILITY (LOTUS)	NONE		

NOTES

¹When ordering, specify an "S PROM" and the drive unit number.

²Format and copy CDS T-306 using entry for CDC 9766.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 LOTUS 700¹

ENTRY NO.: 41

DISC ID: P4F135

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2283 (135MB) ²	1462	377
		No. Cyls in LU/0 14

DEVICE CODE 27

DISC DRIVER ADDR 24664

BZUD ADDR 24404

LRC 400

NPTC 10

DFLG 40500

NTRS 2020

PHYU D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (LOTUS)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹When ordering, specify an "H PROM" and the drive unit number.

²This drive requires a patch to DISCUTILITY 1.4 (see Appendix A).

R8 DISC SPECIFICATION

ENTRY NO.: 43

CONTROLLER: Data General 6067 Subsystem¹

DISC ID: DG6067

DATE: 10-25-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
DG 6067 Subsystem (50MB)	1447	1042
		No. Cyls in LU/0 32

DEVICE CODE 27

DISC DRIVER ADDR 51716

BZUD ADDR 51404

LRC 170

NPTC 5

DFLG 40500

NTRS 1214

PHYU D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM See Note 2

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹DG 6067 Subsystem does not allow memory above 32K.

²User must supply own disc-to-disc backup program. BLOCKCOPY may be used by a knowledgeable programmer but it is very slow.

R8 DISC SPECIFICATION

CONTROLLER: MCT SMC-902

ENTRY NO.: 44

DISC ID: MC9202

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDS T-202	1457	234
		No. Cyls in LU/0 10

DEVICE CODE 36

DISC DRIVER ADDR 44416

BZUD ADDR 32404

LRC 642

NPTC 23

DFLG 40500

NTRS 4613

PHYU D + 100000
where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.44

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 LOTUS 700¹

ENTRY NO.: 45

DISC ID: 700LMD

DATE: 02-15-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9455 LMD LARK (16MB) ²	311	311
		No. Cyls in LU/0 60

DEVICE CODE 27

DISC DRIVER ADDR 45216

BZUD ADDR 37404

LRC 100

NPTC 2

DFLG 40500

NTRS 420

PHYU D + (100000 if fixed)

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (LOTUS)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

- ¹When ordering, specify a "4 PROM" and the drive unit number.
- ²This drive requires a patch to DISCUTILITY 1.4 (see Appendix A).

R8 DISC SPECIFICATION

ENTRY NO.: 46

CONTROLLER: POINT 4 LOTUS 700¹

DISC ID: P4F168

DATE: 02-15-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2284 (168MB) ² CDC 9715 (168MB) ²	1462	314
No. Cyls in LU/0		12

DEVICE CODE 27

DISC DRIVER ADDR 26264

BZUD ADDR 26004

LRC 500

NPTC 12

DFLG 40500

NTRS 2420

PHYU D
where D = drive unit no.
P = platter or surface

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		
DISC COPY PROGRAM DISCUTILITY (LOTUS)		

NOTES

¹When ordering, specify a "J PROM" and the drive unit number.

²This drive requires a patch to DISCUTILITY 1.4 (see Appendix A).

R8 DISC SPECIFICATION

ENTRY NO.: 47

CONTROLLER: POINT 4 LOTUS 701¹
Data General 4234-type²

DISC ID: P41073

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load; includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 3	626	626
No. Cyls in LU/0		200

DEVICE CODE 73

DISC DRIVER ADDR 40162

BZUD ADDR 40004

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU (D*40000) + (P*1000)
 where D = drive unit no.
 P = platter or surface

 Usually P=0 for removable
 P=1 for fixed

DISC COPY PROGRAM DDCOPY.47

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

- ¹POINT 4 LOTUS 701 and Western Peripherals DC-220-10 support 64K-word memory.
- ²DG 4234, Ampex ADC-400, and DG 6045 subsystem do not allow memory above 32K.
- ³Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

ENTRY NO.: 48

CONTROLLER: DG 6030 floppy subsystem¹

DISC ID: DGFL73

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Data General 6030 floppy subsystem (.3MB)	115	115
		No. Cyls in LU/0 115 ²

DEVICE CODE 73

DISC DRIVER ADDR 41562

BZUD ADDR 41404

LRC 10

NPTC 1

DFLG 101000

NTRS 110

PHYU D*40000
 where D = drive unit no.
 P = platter or surface

DISC COPY PROGRAM DDCOPY.48

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 6030 subsystem does not allow memory above 32K.

²System from CTUTILITY requires special reduced-size LU/0 template.

R8 DISC SPECIFICATION

CONTROLLER: Data General 4060¹

ENTRY NO.: 49

DISC ID: DG2540

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Data General 4047 (2.5MB)	313	313
		No. Cyls in LU/0 313

DEVICE CODE 40

DISC DRIVER ADDR 40162

BZUD ADDR 40004

LRC 30

NPTC 2

DFLG 105000

NTRS 214

PHYU D*40000

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DDCOPY.49

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 4060 controller does not allow memory above 32K.

R8 DISC SPECIFICATION

ENTRY NO.: 50

CONTROLLER: Randal Disc Controller¹

DISC ID: RN1033

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load); includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 2	626	626
		No. Cyls in LU/0 200

DEVICE CODE 33

DISC DRIVER ADDR 40762

BZUD ADDR 40604

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU (D*40000) + (P*1000)

where D = drive unit no.
P = platter or surface

Usually P=0 for removable
P=1 for fixed

DISC COPY
PROGRAM DDCOPY.50

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Unknown whether memory above 32K is available.

²Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

CONTROLLER: Data General 4046¹

ENTRY NO.: 51

DISC ID: DG2573

DATE: 08-16-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Data General 4047 (2.5MB)	313	313
		No. Cyls in LU/0 313

DEVICE CODE 73

DISC DRIVER ADDR 40162

BZUD ADDR 40004

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU D*40000
 where D = drive unit no.
 P = platter or surface

DISC COPY PROGRAM DDCOPY.51

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹The DG 4060 controller does not allow memory above 32K.

R8 DISC SPECIFICATION

ENTRY NO.: 52

CONTROLLER: Randal Disc Controller¹

DISC ID: RN1040

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load); includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 2	626	626
No. Cyls in LU/0		200

DEVICE CODE 40

DISC DRIVER ADDR 40762

BZUD ADDR 40604

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU (D*40000) + (P*1000)
 where D = drive unit no.
 P = platter or surface

Usually P=0 for removable
 P=1 for fixed

DISC COPY
 PROGRAM DDCOPY.52

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Unknown whether memory above 32K is available.

²Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

ENTRY NO.: 53

CONTROLLER: Randal Disc Controller¹

DISC ID: RN1073

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Diablo 44-type (10MB) (5MB removable plus 5MB fixed; front or top-load); includes: Data General 6045 subsystem Microdata 9000 Pertec D-3422, D-3442 Western Dynex 6000 See Note 2	626	626
No. Cyls in LU/0		200

DEVICE CODE 73

DISC DRIVER ADDR 40762

BZUD ADDR 40604

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU (D*40000) + (P*1000)
 where D = drive unit no.
 P = platter or surface

Usually P=0 for removable
 P=1 for fixed

DISC COPY PROGRAM DDCOPY.53

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Unknown whether memory above 32K is available.

²Some controller and drive combinations are not possible. Please consult the manufacturer's handbook.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3

ENTRY NO.: 301

DISC ID: MK3CMD

DATE: 11-05-82

DRIVE	Total Cyls On-Disc	Max Cyls Other LUs
CDC 9448 CMD (32MB, 64MB or 96MB) Ampex DFR-932 (32MB) DFR-964 (64MB) DFR-996 (96MB)	1462	1462
		No. Cyls in LU/0 140

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 40

NPTC 1

DFLG 500

NTRS 220

PHYU 60000+(2*P)+D+(100000 if fixed)

where D = drive unit no.

P = platter or surface

32MB - P=0 remov; P=0 fixed

64MB - P=0 remov; P=0, 1 or 2 fixed

96MB - P=0 remov; P=0,1,2,3 or 4 fixed

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS

Use DSP to enter the following in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3

ENTRY NO.: 302

DISC ID: MK3LMD

DATE: 02-15-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9455 LARK (16MB) CDC 9457 LARK (50MB)	311 1153	311 1153
No. Cyls in LU/0		60

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 100

NPTC 2

DFLG 500

NTRS 420

PHYU 20200 + D + (100000 if fixed)
where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 303

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3PRI

DATE: 10-21-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
PRIAM 3450 (35MB) BASF 6173 (40MB)	1010 1123	1010 1123
No. Cyls in LU/0		34

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 156

NPTC 5

DFLG 500

NTRS 1213

PHYU 13012 + D
 where D = drive unit no.
 P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3

ENTRY NO.: 304

DISC ID: MK3BAS

DATE: 10-21-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
BASF 6172 (20MB) CDC 9410 Finch (24MB)	1123 1130	1123 1130
No. Cyls in LU/0		57

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 102

NPTC 3

DFLG 500

NTRS 613

PHYU 13006 + D

where D = drive unit no.
P = platter or surface

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

DISC COPY PROGRAM DISCUTILITY (MARK 3)

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 305

CONTROLLER: POINT 4 MARK 3

DISC ID: MK380M

DATE: 02-15-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-940 (40MB)	626	631 ¹
DM-980 (80MB)	1462	
DM-9160 (160MB)	3150	
Ball BD-80 SMD (80MB) ²	1462	
CDC 9710 (80MB) ²	1462	
CDC 9760 SMD (40MB)	626	
9762 SMD (80MB)	1462	
CDS T-82 (80MB)	1452	
NEC 2230 (42MB) ³	632	
No. Cyls in LU/0		24

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 240

NPTC 5

DFLG 40500

NTRS 1220

PHYU 20012 + D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹LU MAY NOT exceed total cylinders on disc.

²Format and copy Ball BD-80 and CDC 9710 using DISCUTILITY drive type for CDC 9762.

³NEC 2230 requires a patch for DISCUTILITY 2.7 (see Appendix A).

R8 DISC SPECIFICATION

ENTRY NO.: 306

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3300

DATE: 10-22-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-9300 (300MB)	1452	153
CDC 9766 SMD (300MB)	1462	
CDS T-302 (300MB)	1452	
CDS T-306 (300MB) ¹	1462	
No. Cyls in LU/0		6

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 1140

NPTC 23

DFLG 40500

NTRS 4620

PHYU 20046 + D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Format and copy CDS T-306 using DISCUTILITY drive type for CDC 9766.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3

ENTRY NO.: 307

DISC ID: MK3F84

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M-2312-K (84MB)	1110	444
		No. Cyls in LU/0 16

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 340

NPTC 7

DFLG 40500

NTRS 1620

PHYU 20016 + D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3

ENTRY NO.: 308

DISC ID: MK3135

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2283 (135MB)	1462	377
		No. Cyls in LU/0 14

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 400

NPTC 10

DFLG 40500

NTRS 2020

PHYU 20020 + D
 where D = drive unit no.
 P = platter or surface

SETUP PARAMETERS
 Use DSP to enter the following
 in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

DISC COPY PROGRAM DISCUTILITY (MARK 3)

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 309

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3168

DATE: 02-15-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2284 (168MB) CDC 9715 (168MB)	1462	314
		No. Cyls in LU/0 12

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 500

NPTC 12

DFLG 40500

NTRS 2420

PHYU 20024 + D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Format and copy CDC 9715 using DISCUTILITY drive type for Fujitsu M2284.

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3

ENTRY NO.: 310

DISC ID: MK3080

DATE: 10-24-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Okidata 3306 (80MB)	516	252
		No. Cyls in LU/0 10

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 600

NPTC 14

DFLG 40500

NTRS 3020

PHYU 20030 + D

where D = drive unit no.
P = platter or surface

SETUP PARAMETERS

Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
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NONE		
------	--	--

DISC COPY PROGRAM DISCUTILITY (MARK 3)

NOTES

R8 DISC SPECIFICATION

CONTROLLER: POINT 4 MARK 3 FLOPPY

ENTRY NO.: 360

DISC ID: M3F82D

DATE: 12-13-82

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Any 8" 2D Drive	115	115
		No. Cyls in LU/0 115

DEVICE CODE 52

DISC DRIVER ADDR 55016

BZUD ADDR 54404

LRC 36

NPTC 2

DFLG 500

NTRS 217

PHYU 7420 + D

where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 3)¹

SETUP PARAMETERS
Use DSP to enter the following
in CONFIG, then re-IPL.

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

¹Requires DISCUTILITY 2.9 or later.



Section 2

\$TERMS SPECIFICATIONS

2.1 INTRODUCTION TO \$TERMS SPECIFICATIONS

\$TERMS specification sheets are arranged by port type and include the following information:

- PORT TYPE - Decimal value used to identify a Terminal Translation Module to the system via the Port command.
- TERMINAL TYPE CODE - Octal value inserted in the RDE/TTC cell of the device driver's Port Definition Table (see the IRIS Installation and Configuration Manual).
- DATE - Issue date of the specification sheet.
- DRIVER - Name of \$TERMS driver that must be enabled.
- TERMINAL - Manufacturers of terminals which use this port type.
- FUNCTIONS - An alphabetical list of possible CRT functions. Availability of the functions is indicated by an X or a numerical code in the appropriate column. The numerical code is used where more than one type of terminal is listed and a particular function applies to some but not all terminals.

Cursor tracking is described in Appendix C.

Under IRIS R8, four special functions (S1-S4) are reserved for customer use. They may be defined in a terminal translation module written by an OEM. Because they are not used by POINT 4, they are not listed on the specification sheets.

Table 2-1 describes each of the CRT functions available under IRIS.

TABLE 2-1. CRT FUNCTIONS

Function	Description
BB	Begin blink
BD	Begin dimming
BP	Begin write protect
BR	Begin reverse video
BT	Begin transmission from CRT memory
BU	Begin underline
BX	Begin expanded print
CE	Clear to end of screen (unprotected)
CL	Clear to end of line (unprotected)
CR	Carriage return
CS	Clear screen
CU	Clear unprotected
DC	Delete character
DL	Delete line
EB	End blink
ED	End dimming
EP	End write protect
ER	End reverse video
ET	ETX (end of text) code
EU	End underline
EX	End expanded print
FF	Form feed
FM	Enter format mode
FX	Exit format mode
IC	Insert character
IL	Insert line
LF	Line feed
LK	Lock keyboard
MD	Move cursor down
MH	Move cursor home
ML	Move cursor left
MP	Use memory pointer instead of cursor for next positioning
MR	Move cursor right
MU	Move cursor up
RB	Ring bell
RD	Read cursor position
S1	Special code 1 *
S2	Special code 2 *
S3	Special code 3 *
S4	Special code 4 *
UK	Unlock keyboard
VT	Vertical tab
e	Cursor addressing

*Reserved for customer use (not implemented by POINT 4)

2.2 INDEX TO \$TERMS SPECIFICATIONS

The following is an index to the R8 \$TERMS Specifications by terminal type.

<u>Terminal</u>	<u>Port Type</u>
AMPEX CORPORATION DIALOGUE 80	19
APPLIED DIGITAL DATA SYSTEMS (ADDS) REGENT 25	15
VIEWPOINT	15
BEEHIVE 100	10
DATA MEDIA ELITE 1520A	6
ELITE 1521A	7
ELITE 1521A, Enhanced Terminal	7
GENERAL ELECTRIC TERMINET	5
HAZELTINE 2000	9
LEAR SIEGLER ADM-1A	1
ADM-1A with optional Edit Package	1
ADM-3A	3
ADM-31* **	1
MICRO-TERM ACT-V	13
SOROC IQ 120	1
TELEVIDEO 912* **	14
920* **	14
950* **	4

*Meets minimum requirements for TYPIST.

**Meets class 2 requirements for STYLUS.

2.3 \$TERMS SPECIFICATION SHEETS

This section contains \$TERMS Specification sheets arranged in numerical order by terminal type.

R8 \$TERMS SPECIFICATION

PORT TYPE: 1

TERMINAL TYPE CODE: 1

DRIVER TO ENABLE: TERMADM1

DATE: 08-23-82

TERMINAL(S)

- (1) Lear Siegler ADM-1A
- (2) Lear Siegler ADM-1A with optional edit package
- (3) Lear Siegler ADM-31
- (4) Soroc IQ 120

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD	X		FM	X	
BP	X		FX	X	
BR		X	IC	(2) (3)	(1) (4)
BT		X	IL	(2) (3)	(1) (4)
BU		X	LF	X	
BX		X	LK	X	
CE	(2) (3) (4)	(1)	MD	X	
CL	(2) (3) (4)	(1)	MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC	(2) (3)	(1) (4)	MU	X	
DL	(2) (3)	(1) (4)	RB	X	
EB		X	RD		X
ED	X		UK	X	
EP	X		VT		X
ER		X	@	(2) (3) (4)	(1)
ET		X			
EU		X	Cursor Track Mode	(2) (3) (4)	(1)
EX		X			

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 3

DRIVER TO ENABLE: TERMADM3

TERMINAL TYPE CODE: 3

DATE: 08-23-82

TERMINAL(S)

Lear Siegler ADM-3A

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD		X	FM		X
BP		X	FX		X
BR		X	IC		X
BT		X	IL		X
BU		X	LF	X	
BX		X	LK	X	
CE		X	MD	X	
CL		X	MH	X	
CR	X		ML	X	
CS	X		MP		X
CU		X	MR	X	
DC		X	MU	X	
DL		X	RB	X	
EB		X	RD		X
ED		X	UK	X	
EP		X	VT		X
ER		X	@	X	
ET		X			
EU		X	Cursor		
EX		X	Track		
			Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 4

TERMINAL TYPE CODE: 4

DRIVER TO ENABLE: TERMTV950

DATE: 08-20-82

TERMINAL(S)

Televideo 950

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X		FF		X
BD	X		FM	X	
BP	X		FX	X	
BR	X		IC	X	
BT		X	IL	X	
BU	X		LF	X	
BX		X	LK	X	
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC	X		MU	X	
DL	X		RB	X	
EB	X		RD		X
ED	X		UK	X	
EP	X		VT		X
ER	X		@	X	
ET		X			
EU	X		Cursor		
EX		X	Track		
			Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 5

DRIVER TO ENABLE: TERMINET¹

TERMINAL TYPE CODE: 5

DATE: 8-20-82

TERMINAL(S)

G.E. Terminet

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD		X	FM		X
BP		X	FX		X
BR		X	IC		X
BT		X	IL		X
BU		X	LF		X
BX		X	LK		X
CE		X	MD		X
CL		X	MH		X
CR		X	ML		X
CS		X	MP		X
CU		X	MR		X
DC		X	MU		X
DL		X	RB		X
EB		X	RD		X
ED		X	UK		X
EP		X	VT		X
ER		X	@		X
ET		X			
EU		X	Cursor		
EX		X	Track		
			Mode		X

NOTES

¹The purpose of this driver is to provide delay after \214\ and \213\.

R8 \$TERMS SPECIFICATION

PORT TYPE: 6

TERMINAL TYPE CODE: 6

DRIVER TO ENABLE: TERMDM1520

DATE: 8-23-82

TERMINAL(S)

Data Media Elite 1520A

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD		X	FM		X
BP		X	FX		X
BR		X	IC		X
BT		X	IL		X
BU		X	LF	X	
BX		X	LK		X
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU		X	MR	X	
DC		X	MU	X	
DL		X	RB	X	
EB		X	RD		X
ED		X	UK		X
EP		X	VT		X
ER		X	@	X	
ET		X			
EU		X	Cursor		
EX		X	Track		
			Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 7

TERMINAL TYPE CODE: 7

DRIVER TO ENABLE: TERMDM1521

DATE: 8-23-82

TERMINAL(S)

- (1) Data Media Elite 1521A
 (2) Data Media Elite 1521A enhanced terminal

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD	X		FM		X
BP	X		FX		X
BR		X	IC		X
BT		X	IL		X
BU	(2)	(1)	LF	X	
BX		X	LK		X
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC		X	MU	X	
DL		X	RB	X	
EB		X	RD		X
ED	X		UK		X
EP	X		VT		X
ER		X	@	X	
ET		X	Cursor		
EU	(2)	(1)	Track		
EX		X	Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 9

DRIVER TO ENABLE: TERMH2000

TERMINAL TYPE CODE: 11

DATE: 8-23-82

TERMINAL(S)

Hazeltine 2000

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD	X		FM		X
BP	X		FX		X
BR		X	IC		X
BT		X	IL	X	
BU		X	LF		X
BX		X	LK		X
CE		X	MD		X
CL		X	MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR		X
DC		X	MU		X
DL	X		RB	X	
EB		X	RD		X
ED	X		UK		X
EP	X		VT		X
ER		X	@	X	
ET		X			
EU		X	Cursor		
EX		X	Track		
			Mode		X

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 10

DRIVER TO ENABLE: TERMB100

TERMINAL TYPE CODE: 12

DATE: 8-20-82

TERMINAL(S)

Beehive 100

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X		FF		X
BD	X		FM	X	
BP	X		FX	X	
BR		X	IC		X
BT		X	IL		X
BU		X	LF	X	
BX		X	LK	X	
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC		X	MU	X	
DL		X	RB	X	
EB	X		RD		X
ED	X		UK	X	
EP	X		VT		X
ER		X	@	X	
ET		X			
EU		X	Cursor		
EX		X	Track		
			Mode		X

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 13

TERMINAL TYPE CODE: 15

DRIVER TO ENABLE: TERMACT5

DATE: 8-23-82

TERMINAL(S)

Micro-Term Act-V

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X		FF		X
BD	X		FM	X	
BP	X		FX	X	
BR	X		IC	X	
BT		X	IL	X	
BU	X		LF	X	
BX		X	LK		X
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC	X		MU	X	
DL	X		RB	X	
EB	X		RD		X
ED	X		UK		X
EP	X		VT		X
ER	X		@	X	
ET		X			
EU	X		Cursor		
EX		X	Track		
			Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 14

DRIVER TO ENABLE: TERMTV912

TERMINAL TYPE CODE: 16

DATE: 8-20-82

TERMINAL(S)

Televideo 912
Televideo 920

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X		FF		X
BD	X		FM	X	
BP	X		FX	X	
BR	X		IC	X	
BT		X	IL	X	
BU	X		LF	X	
BX		X	LK	X	
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC	X		MU	X	
DL	X		RB	X	
EB	X		RD		X
ED	X		UK	X	
EP	X		VT	X	
ER	X		@	X	
ET		X	Cursor		
EU	X		Track		
EX		X	Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 15

TERMINAL TYPE CODE: 17

DRIVER TO ENABLE: TERMADDS25

DATE: 8-23-82

TERMINAL(S)

(1) ADDS Regent 25
 (2) ADDS Viewpoint

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X	FF		X
BD		X	FM		X
BP		X	FX		X
BR		X	IC		X
BT		X	IL		X
BU		X	LF	X	
BX		X	LK	X	
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU		X	MR	X	
DC		X	MU	X	
DL		X	RB	X	
EB		X	RD		X
ED		X	UK	X	
EP		X	VT	(1)	(2)
ER		X	@	X	
ET		X			
EU		X	Cursor		
EX		X	Track		
			Mode	X	

NOTES

R8 \$TERMS SPECIFICATION

PORT TYPE: 19

TERMINAL TYPE CODE: 21

DRIVER TO ENABLE: TERMDIAL80

DATE: 8-23-82

TERMINAL(S)

Ampex Dialogue 80

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X		FF		X
BD	X		FM	X	
BP	X		FX	X	
BR	X		IC		X
BT		X	IL		X
BU	X		LF	X	
BX		X	LK	X	
CE	X		MD	X	
CL	X		MH	X	
CR	X		ML	X	
CS	X		MP		X
CU	X		MR	X	
DC		X	MU	X	
DL		X	RB	X	
EB	X		RD		X
ED	X		UK	X	
EP	X		VT		X
ER	X		@	X	
ET		X	Cursor		
EU	X		Track		
EX		X	Mode	X	

NOTES

APPENDICES



Appendix A

SOFTWARE CHANGE ORDERS

This appendix contains the Software Change Orders (SCOs) referenced by the Disc Specification sheets. They are identified and arranged by the associated Disc Specification entry number.



Point 4 Data Corporation

```

+--- P4DC production manager only ---+
| Status _____ |
| Production System |
| Update by_____ Date__/_/_ |
| SCO # _____ Date__/_/_ |
| Master File |
| Update by_____ Date__/_/_ |
| Master File |
| Name _____ |
+-----+

```

FOR ENTRY # 41

Patch #:

Product: DISCUTILITY

Detail: For LOTUS Disc Controller

Asm Date: 9-17-80 Release #: 1.4

Update Date: 12-15-82 By: SCM

Review Date:

Problem: Need to add the FUJITSU M2283 (135 MB) drive to DISCUTILITY for the LOTUS disc controller.

Special Instructions: Enter drive type 46 using DICSUTILITY.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
6643	7		0
6644	40		0
6645	1466		0

Point 4 Data Corporation

+--- P4DC production manager only ---+ Status _____ Production System _____ Update by _____ Date__/__/__ SCO # _____ Date__/__/__ Master File _____ Update by _____ Date__/__/__ Master File _____ Name _____ +-----+	FOR ENTRY # 46 Patch #: Product: DISCUTILITY Detail: For LOTUS Disc Controller Asm Date: 9-17-80 Release #: 1.4 Update Date: 12-15-82 By: SCM Review Date:
--	--

Problem: Need to add the FUJITSU M2234 (168 MB) drive to DISCUTILITY for the LOTUS disc controller.

Special Instructions: Enter drive type 47 using DISCUTILITY.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
6647	11		0
6650	40		0
6651	1466		0
6657	0	REMOVE previous patch,	any
6660	0	if in, which set up the	any
6661	0	FUJITSU 168 as Dr type 49	any

Point 4 Data Corporation

```

+--- P4DC production manager only ---+
| Status _____ |
| Production System |
| Update by_____ Date__/_/___ |
| SCO # _____ Date__/_/___ |
| Master File |
| Update by_____ Date__/_/___ |
| Master File |
| Name _____ |
+-----+

```

FOR ENTRY # 305

Patch #:

Product: DISCUTILITY

Detail: For Rev. 2.7 for MARK 3

Asm Date: 4-15-82 Release #: 2.7

Update Date: 10-24-82 By: SCM

Review Date:

Problem: Need to add the NEC 2230 (42 MB) drive as drive type 117.

Special Instructions: Enter drive type 117 using DISCUTILITY 2.7

Make sure your DISCUTILITY is 2.7 before applying this patch.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
12156	0		0
12157	4		0
12160	40		0
12161	636		0

Appendix B

CONFIG LISTING

This appendix contains the first four blocks of the CONFIG file which include:

Block 0 - Memory-resident processor list set up by SIR.

Block 1 - General and System INFO tables. Some values may be entered by the user when configuring the system.

Block 2 - Memory-resident DISCSUB list given in order of priority.

Block 3 - Disc Driver Table used to configure a particular controller/disc drive combination. Values that are entered into this table are provided on the Disc Specification sheets (see Section 1).

```

PAGE 1
;                                     << SI = R81CONFIGSD; BO = A.CONFIG..3040! >>
;
; "CONFIG" == Configuration file for "IRIS" R8.1
; "UNIVERSAL" base file - Loc 0 to 1777 fits all discs
;
;      12      .RDX 10
;
;      2 MONTH = 2
;      11 DAY  = 9
;      3677 YEAR = 1983
;
;      ALL RIGHTS RESERVED
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;      Copyright (C) 1982, Point 4 Data Corporation
;      Copyright (C) 1983, Point 4 Data Corporation
;      This document may not be reproduced without the
;      prior written permission of Point 4 Data Corporation.
;
; SYSTEM CONFIGURATION DATE (HOURS AFTER JAN 1 OF BASE YEAR)
;      66110 SDATE = YEAR-BASEYEAR*12+MONTH-1*31+DAY-1*24
;
;      1      .TXTM 1
;      10     .RDX  8
;
; CONFIG file block layout
;
; Block      0 - Memory resident processor list
; Block      1 - General and System INFO tables
; Block      2 - Memory resident discsub list
; Block      3 - Disc partitioning tables
; Block      4-33 - Unused
; Block      34 - Log on restrictions table
; Block      35-37 - Auto program start table
; Block      40-100 - Secondary disc drivers
;
;      0      .LOC  0      ;Block zero
;      0 177777 -1
;
;      300     .LOC  300     ;Driver init routine RDA list

```


PAGE 2

```
<< SI = R81CONFIGSD; BO = A.CONFIG..3040! >>
;          400      .LOC  400      ;Block 1 -- General Information
          400  40010  40010  ;PAREA - Partition area size.
          401  20000  20000  ;PSIZE - User partition size.
          402      2    2      ;NPART - Number of user partitions.

          600      .LOC  INFO      ;System Information Table

          600  66110  SDATE      ;System creation date (Hours after base year)
          601  2000   2000      ;Average CPU speed (Instructions per millisecond) *
          602      1    1        ;Maximum # installable logical units
          603     12   12        ;Number of physical data channels (DFTs) per port
          604  65740  65740      ;Location of Port Control Area
          605      1    1        ;Total number of active ports (TNAP)
          ; (May be increased by SIR)
          606 100000  100000     ;Special conditions flags **
          607  42600  MEPS        ;Location of end of processor storage
          610 177777  177777     ;Top word of memory to be used
          611  1004   1004      ;Auxiliary buffer size (number of words)
          612 177777  -1        ;Reserved
          613      4    4        ;Number of extra character queue nodes
          614     40   40        ;Minimum # of free nodes
          615     30   30        ;Number of signal buffer nodes
          616     200  200       ;Maximum Number of discsubs
          ;(size of DAT & SAT tables)
          617  24003  24003     ;Time slice parameters (Long time
          ;slice * 400 + short time slice)
          620     20   20        ;Minimum Time to keep a partition locked
          621 11144   11144     ;Sched param's (APRI.BIAS*100
          ; + SINT.BIAS*400 + SINT.AOI)
          622     10   .BLK      SZICON+INFO-.; (Reserved)

;          * Add 100000 for interrupt detour if NOVA 3 CPU
;          ** Bit 15 = 1 ==> "No dirty buffers"
;          Bit 14 = 1 ==> Suppress BASIC error text
```

```
PAGE 3
; << SI = R81CONFIGSD; BO = A.CONFIG..3040! >>
; 1000 .LOC 1000 ;Block 2 -Memory Resident discsub list
```

```
; Note: The order of the discsubs in the following list is
; the most to least important for a normal 64K word
; system. If it is necessary to remove memory resident
; discsubs, remove or replace from the bottom of the list.
```

1000	67	AFSET
1001	100	LINKP&377
1002	3	FFILE
1003	15	ACNTLOOKUP
1004	22	OPEN&377
1005	26	CLOSE
1006	30	GETRR&377
1007	33	READITEM
1010	1	ALLOCATE
1011	40	CHARGE
1012	36	READCONTIG
1013	61	SEARCH&377
1014	62	SHUFFLE
1015	63	DEKEY
1016	27	CLEAR
1017	46	SPECIAL
1020	57	SIGPAUSE
1021	41	SYSCO
1022	177777	-1

PAGE 4

```
<< SI = R81CONFIGSD; BO = A.CONFIG..3040! >>
1400 .LOC 1400 ;Block 3 -- DISC DRIVER TABLE

1400 1 1 ;Real memory address of LUFIX (Set by "SIR")
1401 77777 77777 ;Virtual (listing) address of system disc driver
1402 77777 77777 ;Virtual (listing) address of block zero utility driver
1403 1 1 ;Actual Number of partitions for this driver
1404 52 52 ;Real device address of controller
1405 500 500 ;Ratio for calculating MINB
1406 0 0 ;(Reserved for future use)
1407 0 0 ;(Reserved for future use)

;Partition 0.0 (IRIS system LU 0)

1410 0 0 ;Real memory address of LUVAR (set by "SIR")
1411 0 0 ;NPTC - Number of physical tracks per cylinder
1412 0 0 ;DFLG - Disc flag word
1413 0 0 ;RESERVED
1414 0 0 ;PHYU - Physical Unit selection
1415 0 0 ;FCYL - First cylinder #
1416 0 0 ;NCYL - Number of cylinders
1417 0 0 ;NTRS - [# tracks] *100 + [# sectors]

1420 177777 -1 ;Terminator for Drive Table for "UNIVERSAL" CONFIG base file

.END ;R8.1 "UNIVERAL" CONFIG file base
```

BINDI	6114	BINMU	6115	BPI	16	BSACF	72	BUMPU	6116
C10	30	C100	44	C1000	64	C11	31	C12	32
C13	33	C14	34	C15	35	C16	36	C160	174
C163	175	C166	176	C17	37	C170K	21	C171	177
C177	45	C1777	65	C2	2	C20	40	C200	50
C2000	66	C205	51	C215	52	C240	53	C244	54
C260	55	C271	56	C3	3	C300	57	C334	60
C37	41	C377	61	C4	24	C40	42	C400	62
C4000	67	C5	25	C6	26	C600	77	C7	27
C77	43	C774C	22	C777	63	CALL	6100	CHANN	6105
CM400	23	DA	160	DAC	164	DAS	165	DATAP	6107
DAY	11	DB	166	DBA	75	DBC	172	DBS	173
DECIM	6117	DQUEU	6104	ERRF	73	ESCF	70	ETSF	71
FINDL	6122	FIX	6120	FLAGC	6101	FLOAT	6121	FREEN	6106
GETBY	6123	INBYT	6124	INSTB	6125	ISA2D	6126	ISA2L	6127
JFLT0	147	LOADD	6130	MONTH	2	OUTBY	6131	OUTTE	6132
PUTBY	6133	QCHAR	6102	QUEUE	6103	READB	6134	RELJM	6135
RTP	7	RUP	5	RUS	6	SBA	74	SDATE	66110
SPINP	6145	STINP	6137	STORD	6136	STOUT	6140	TASKQ	15
TRAPF	6141	WRITB	6142	XGETB	6143	XPUTB	6144	YEAR	3677
.ABA	14	.BPS	76	.BRKP	146	.BSA	10	.DA	174
.DA3	175	.DB	176	.DB3	177	.FLT0	150	.HBA	11
.HXA	12	.INFO	77	.INTR	110	.LCM	113	.NRET	111
.SRET	112	.SSA	13						

Appendix C

CURSOR TRACKING MODE

POINT 4 has made cursor tracking available on selected terminals. This appendix describes the procedure for enabling and using this facility.

Cursor tracking is a facility available under the IRIS Operating System that allows full screen editing capabilities previously available only on CRTs with 3270-type protocols. It also makes BASIC screen entry programs terminal independent.

Cursor tracking mode is contingent on its availability as indicated by the \$TERMS Specification sheets. When the \$TERMS driver appropriate for a specific CRT is enabled, the cursor tracking capability may be invoked within a BASIC program written by the user.

Once the appropriate driver is enabled, any BASIC input statement containing the octal control code "\001\" will automatically invoke cursor tracking mode. For example:

```
70 INPUT @15,8;"\001\"I$
```

The user may enter normal characters and use the four arrow-keys to position the cursor between characters. I\$ contains the octal code for each arrow-key entered. The octal codes include:

<u>Octal Code</u>	<u>Control Key</u>
010	Left Arrow
040	Right Arrow
052	Down Arrow
053	Up Arrow

These codes are universal and independent of the CRT in use.

The application program may use these octal codes to determine the cursor position on the screen where input is being entered. The program should ensure that the user has not exceeded the maximum character capacity of the screen line (i.e., stop user input at the point where an automatic carriage return is performed). If the application program does not check the number of characters entered on the line (80 character including blanks is normal), the result may be unpredictable and depends on the type of CRT used.

