IRIS R8

Peripherals Handbook

IRIS R8.2C1

PERIPHERALS HANDBOOK

Revision 16

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.

POINT 4 Data Corporation
2569 McCabe Way
Irvine, CA 92714
(714) 863-1111

REVISION RECORD

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01	Initial release (R8.1)	02/15/83
02	Update Package - affects DSE 30 (R8.1)	03/28/83
03	Update Package - affects DSEs 40, 54, 55, 56, 303, 307; TPTs 8, 11 (R8.1)	05/01/83
04	Update Package - affects DSEs 302, 303 (R8.1)	06/01/83
05	Update Package - affects preface, DSE 38; TPT 19 changed to 17 (R8.1)	06/22/83
06	Reissued - incorporates IRIS R8.2	08/01/83
07	Update Package - affects DSEs 303, 304; TPT 12 (R8.2)	09/01/83
08	Update Package - affects DSEs 57, 311 (plus SCOs); TPTs 15, 23 (R8.2)	10/01/83
09	Update Package - affects DSEs 2, 14; SCO for DSE 57 (STRM) (R8.2)	11/01/83
10	Update Package - affects Rev Record, DSEs 58, 312 (plus SCOs) added (R8.2)	12/01/83
11	Update package - incorporates R8.2A; affects DSEs 57, 58	01/01/84
12	Update package - incorporates R8.2B; changes to DSE 311, 312; DSEs 201, 202 added	02/01/84
13	Update package - adds DSE 203 and TPT 16; corrects TPT 11 (R8.2B)	03/10/84
14	Update package - affects DSEs 45, 46, 58, 309, 310 and TPT 16 (R8.2B)	04/10/84
15	Update package - affects Rev Record, DSEs 58, 305, 312 and TPT 16 (R8.2B and R8.2C)	06/10/84
16	Update package - affects DSEs 203, 204, 205 (R8.2C1)	11/10/84

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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 based on current vendor specifications. POINT 4 does not assume responsibility for modifications in vendor products.

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:

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

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FIGURES

TABLES

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

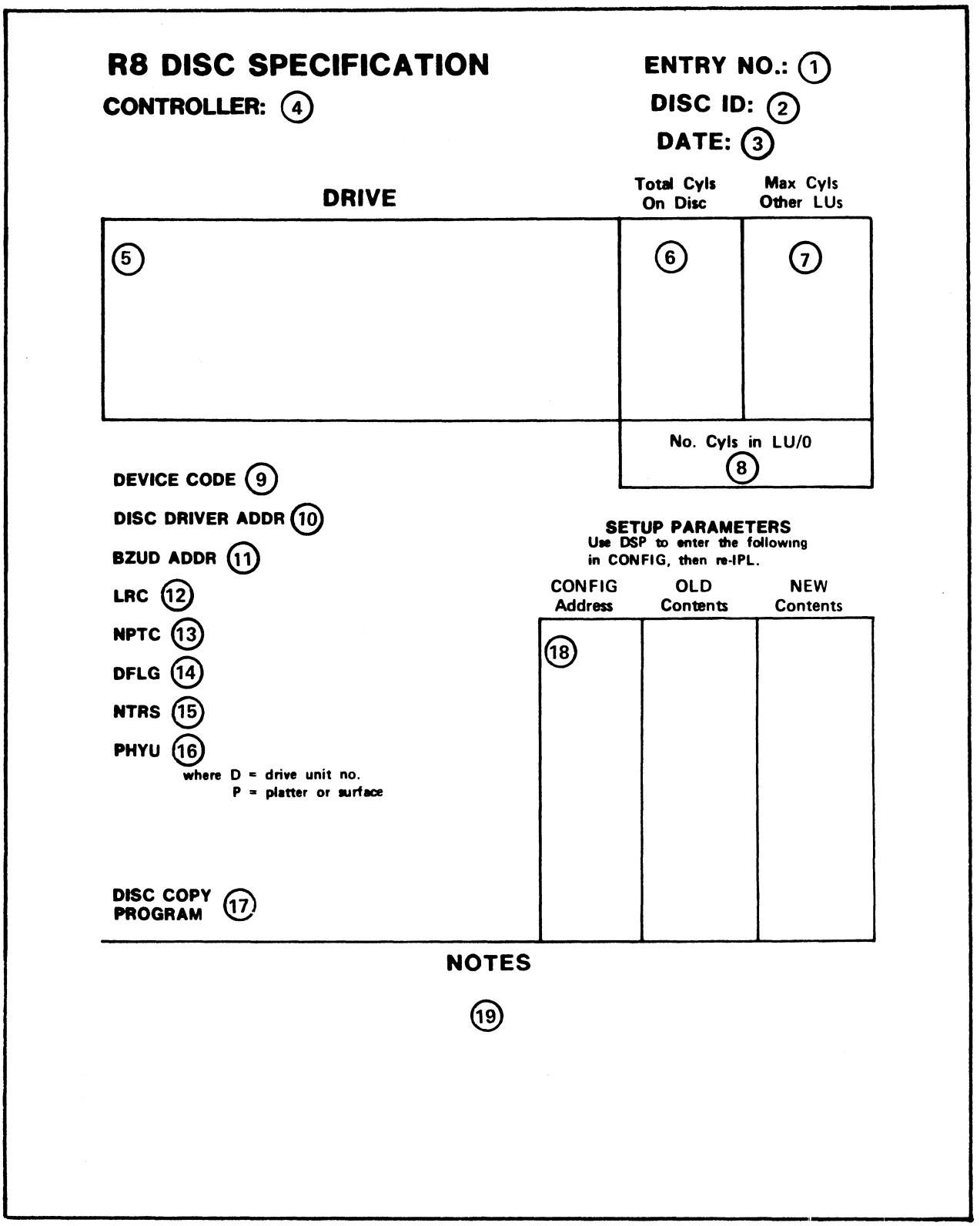

Figure 1-1. Sample Disc Specification Sheet

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

To set up two different drives on the same system, first check the corresponding Disc Spec Entry sheets.

If both sheets have the same DISC DRIVER ADDR and BZUD ADDR, then check the SETUP PARAMETERS. If the SETUP PARAMETERS also match, then set up both drives as running under a single disc controller.

If the DISC DRIVER ADDR and the BZUD ADDR match but the SETUP PARAMETERS do not match, then those drives may not be configured together under IRIS.

If the DISC DRIVER ADDR and BZUD ADDR do not match, set up the two drives as though they were running under two different disc controllers (even if there is only one disc controller).

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

To set up two different drives on the same system, first check the corresponding Disc Spec Entry sheets.

If both sheets have the same DISC DRIVER ADDR and BZUD ADDR, then check the SETUP PARAMETERS. If the SETUP PARAMETERS also match, then set up both drives as running under a single disc controller.

If the DISC DRIVER ADDR and the BZUD ADDR match but the SETUP PARAMETERS do not match, then those drives may not be configured together under IRIS.

If the DISC DRIVER ADDR and BZUD ADDR do not match, set up the two drives as though they were running under two different disc controllers (even if there is only one disc controller).

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 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. If DISCUTILITY is specified, be sure to use the current version.

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.

NOTE

These "SETUP PARAMETERS" <u>do not</u> refer to the parameters required by the new system configurator named SETUP.

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 DISC SPECIFICATION SHEETS BY CONTROLLER TYPE

Controller	Device Code	Drive	Megabytes <UNF>	Megabytes 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	AMPEX DM-9300	<300>	252	40
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	CDC 9766	<300>	255	40
ADC-02	60	CDS (Calcomp) T-82	<80>	67	30
ADC-02	60	CDS (Calcomp) T-302	<300>	252	40
ADC-02	60	CDS (Calcomp) T-306	<300>	255	40
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

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

Controller	Device Code	Drive	Megabytes <UNF>	Megabytes FRMT	Entry No.
DIGITAL COMPUTER CONTROLS (NOW PART OF DATA GENERAL CORPORATION)					
DCC 116446	30	DIABLO 44 Type		10	5
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	AMPEX DM-9300	<300>	252	40
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	CDC 9766	<300>	255	40
MCT SMC-12	60	CDS (Calcomp) T-82	<80>	67	30
MCT SMC-12	60	CDS (Calcomp) T-302	<300>	252	40
MCT SMC-12	60	CDS (Calcomp) T-306	<300>	255	40
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 9448-32 CMD	<32>	27	14
MCT SMC-902	36	CDC 9448-64 CMD	<64>	54	14
MCT SMC-902	36	CDC 9448-96 CMD	<96>	81	14
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

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

Controller	Device Code	Drive	Megabytes <UNF>	Megabytes FRMT	Entry No.
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	FUJITSU M-2294	<335.5>	260.5	58
POINT 4 LOTUS 700	27	FUJITSU M-2312K	<84>	67	54
POINT 4 LOTUS 700	27	FUJITSU M-2322K	<168>	134	46
POINT 4 LOTUS 700	27	OKIDATA 3306	<80>	66	37
POINT 4 LOTUS 700	27	PRIAM 3350	<34>	27	57
POINT 4 LOTUS 700	27	PRIAM 3450	<35>	29	55
POINT 4 LOTUS 700	27	PRIAM 6650	<68>	50	57
POINT 4 LOTUS 700.....	27	PRIAM 7050	<70>	57	55
POINT 4 LOTUS 710	27	CDC 9455 LMU LARK	<16>	13	56
POINT 4 LOTUS 710	27	CDC 9457 LMU LARK	<50>	41	56
POINT 4 LOTUS 710	27	FUJITSU M-2294	<335.5>	260.5	58
POINT 4 LOTUS 710	27	FUJITSU M-2312K	<84>	67	54
POINT 4 LOTUS 710	27	FUJITSU M-2322K	<168>	134	46
POINT 4 LOTUS 710	27	PRIAM 3350	<34>	27	57
POINT 4 LOTUS 710	27	PRIAM 3450	<35>	29	55
POINT 4 LOTUS 710	27	PRIAM 6650	<68>	50	57
POINT 4 LOTUS 710	27	PRIAM 7050	<70>	57	55
POINT 4 MARK 2	52	ATASI 3020	<20>	16	201
POINT 4 MARK 2	52	ATASI 3046	<46>	36	202
POINT 4 MARK 2	52	CMI-12	<12>	10	205
POINT 4 MARK 2	52	CMI-19	<19>	15	203
POINT 4 MARK 2 Floppy	52	Any 5-1/4" 2D Drive			204
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

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

Controller	Device Code	Drive	Megabytes <UNF>	Megabytes FRMT	Entry No.
POINT 4 DATA CORPORATION (Continued)					
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	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	52	CDC 9457 (LARK)	<50>	41	302
POINT 4 MARK 3	52	CDC 9710	<80>	67	305
POINT 4 MARK 3	52	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-2294	<335.5>	260.5	312
POINT 4 MARK 3	52	FUJITSU M-2312-K	<84>	67	307
POINT 4 MARK 3	52	FUJITSU M-2322-K	<168>	134	309
POINT 4 MARK 3	52	KENNEDY 6172	<20>	20	304
POINT 4 MARK 3	52	KENNEDY 6173	<40>	34	303
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 3350	<34>	27	311
POINT 4 MARK 3	52	PRIAM 3450	<35>	29	303
POINT 4 MARK 3	53	PRIAM 6650	<68>	50	311
POINT 4 MARK 3	52	PRIAM 7050	<70>	57	303
POINT 4 MARK 3 Floppy	52	Any 8" 2D Drive			360
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
SYSTEM INDUSTRIES					
SI 3045	40	DIABLO 44 Type		10	2
WESTERN PERIPHERALS					
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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 DISC SPECIFICATION SHEETS BY DRIVE TYPE

Drive	Megabytes <UNF>	Megabytes 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 LOTUS 700	27	36
DFR-932.....	<32>	27	POINT 4 MARK 3	52	301
DFR-964	<64>	54	AMPEX ADC-02	60	29
DFR-964	<64>	54	MCT SMC-12	60	29
DFR-964	<64>	54	POINT 4 LOTUS 700	27	36
DFR-964.....	<64>	54	POINT 4 MARK 3	52	301
DFR-996	<96>	81	AMPEX ADC-02	60	29
DFR-996	<96>	81	MCT SMC-12	60	29
DFR-996	<96>	80	POINT 4 LOTUS 700	27	36
DFR-996.....	<96>	80	POINT 4 MARK 3	52	301
DM-940	<40>	35	MCT SMC-902	36	12
DM-940	<40>	33	POINT 4 LOTUS 700	27	38
DM-940.....	<40>	33	POINT 4 MARK 3	52	305
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 LOTUS 700	36	38
DM-980.....	<80>	67	POINT 4 MARK 3	52	305
DM-9160	<160>	134	POINT 4 LOTUS 700	36	38
DM-9160.....	<160>	134	POINT 4 MARK 3	52	305
DM-9300	<300>	252	AMPEX ADC-02	60	40
DM-9300	<300>	255	MCT SMC-12	60	40
DM-9300	<300>	252	POINT 4 LOTUS 700	36	38
DM-9300	<300>	252	POINT 4 MARK 3	52	306
ATASI					
3020	<20>	16	POINT 4 MARK 2	52	201
3046	<46>	36	POINT 4 MARK 2	52	202
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 LOTUS 700	27	38
BD-80 SMD	<80>	67	POINT 4 MARK 3	52	305

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

Drive	Megabytes <UNF>	Megabytes FRMT	Controller	Device Code	Entry No.
BASF - See KENNEDY					
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 LOTUS 700	27	38
T-82.....	<80>	66	POINT 4 MARK 3	52	305
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	AMPEX ADC-02	60	40
T-302	<300>	255	MCT SMC-12	60	40
T-302	<300>	252	POINT 4 LOTUS 700	27	39
T-302.....	<300>	252	POINT 4 MARK 3	52	306
T-306	<300>	252	AMPEX ADC-02	60	40
T-306	<300>	255	MCT SMC-12	60	40
T-306	<300>	255	POINT 4 LOTUS 700	27	39
T-306	<300>	255	POINT 4 MARK 3	52	306
COMPUTER MEMORIES INC.					
CMI-12	<12>	10	POINT 4 MARK 2	52	205
CMI-19	<19>	15	POINT 4 MARK 2	52	203

(Table continues on next page)

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

Drive	Megabytes <UNF>	Megabytes FRMT	Controller	Device Code	Entry No.
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	MCT SMC-902	36	14
9448-32 CMD	<32>	27	POINT 4 LOTUS 700	27	36
9448-32 CMD.....	<32>	27	POINT 4 MARK 3	52	301
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	MCT SMC-902	36	14
9448-64 CMD	<64>	54	POINT 4 LOTUS 700	27	36
9448-64 CMD.....	<64>	54	POINT 4 MARK 3	52	301
9448-96 CMD	<96>	81	AMPEX ADC-02	60	29
9448-96 CMD	<96>	81	MCT SMC-12	60	29
9448-96 CMD	<96>	81	MCT SMC-902	36	14
9448-96 CMD	<96>	80	POINT 4 LOTUS 700	27	36
9448-96 CMD	<96>	80	POINT 4 MARK 3	52	301
9455 LMD LARK	<16>	13	POINT 4 LOTUS 700	27	45
9455 LMU LARK	<16>	13	POINT 4 LOTUS 710	27	56
9455 LMD LARK	<16>	13	POINT 4 MARK 3	52	302
9457 LMU LARK	<50>	41	POINT 4 LOTUS 710	27	56
9457 LMD LARK	<50>	41	POINT 4 MARK 3	50	302
9710 SMD	<80>	67	POINT 4 LOTUS 700	27	38
9710 SMD	<80>	67	POINT 4 MARK 3	50	305
9715	<168>	134	POINT 4 LOTUS 700	27	46
9715	<168>	134	POINT 4 MARK 3	50	309
9760 SMD	<40>	35	MCT SMC-902	36	12
9760 SMD	<40>	33	POINT 4 LOTUS 700	27	38
9760 SMD.....	<40>	33	POINT 4 MARK 3	52	305
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 LOTUS 700	27	38
9762 SMD.....	<80>	67	POINT 4 MARK 3	52	305
9766 SMD	<300>	252	AMPEX ADC-02	60	40
9766 SMD	<300>	255	MCT SMC-12	60	40
9766 SMD	<300>	255	POINT 4 LOTUS 700	27	39
9766 SMD	<300>	255	POINT 4 MARK 3	52	306

(Table continues on next page)

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

Drive	Megabytes <UNF>	Megabytes 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>	12	BALL 3170	40	11
DIABLO 44		10	DCC 116446	30	5
DIABLO 44		10	DG 4234 Type	33	1
DIABLO 44		10	DG 4234 Type	40	23
DIABLO 44		10	DG 4234 Type	73	47
DIABLO 44		10	SI 3045	40	2
FUJITSU AMERICA INC.					
M-2283	<135>	107	POINT 4 LOTUS 700	27	41
M-2283	<135>	107	POINT 4 MARK 3	52	308
M-2284	<168>	134	POINT 4 LOTUS 700	27	46
M-2284	<168>	134	POINT 4 MARK 3	52	309
M-2294	<335.5>	260.5	POINT 4 LOTUS 700	27	58
M-2294	<335.5>	260.5	POINT 4 LOTUS 710	27	58
M-2294	<335.5>	260.5	POINT 4 MARK 3	52	312
M-2312K	<84>	67	POINT 4 LOTUS 700	27	54
M-2312K	<84>	67	POINT 4 LOTUS 710	27	54
M-2312K	<84>	67	POINT 4 MARK 3	52	307
M-2322K	<168>	134	POINT 4 LOTUS 700	27	46
M-2322K	<168>	134	POINT 4 LOTUS 710	27	46
M-2322K	<168>	134	POINT 4 MARK 3	52	309
KENNEDY					
KENNEDY 6172	<20>	20	POINT 4 MARK 3	52	304
KENNEDY 6173	<40>	34	POINT 4 MARK 3	52	303
MICRODATA					
9000	<10>	12	BALL 3170	40	11
9000		10	DCC 116446	30	5
9000		10	DG 4234 Type	33	1
9000		10	DG 4234 Type	40	23
9000		10	DG 4234 Type	73	47
NIPPON ELECTRIC COMPANY - NEC INFORMATION SYSTEMS, INC.					
NEC 2230	<42>	34	POINT 4 MARK 3	52	305

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

Drive	Megabytes <UNF>	Megabytes FRMT	Controller	Device Code	Entry No.
OKIDATA CORPORATION					
3306	<80>	66	POINT 4 LOTUS 700	27	37
3306	<80>	66	POINT 4 MARK 3	52	310
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
PRIAM CORPORATION					
PRIAM 3350	<34>	27	POINT 4 LOTUS 700	27	57
PRIAM 3350	<34>	27	POINT 4 LOTUS 710	27	57
PRIAM 3350.....	<34>	27	POINT 4 MARK 3	52	311
PRIAM 3450	<35>	29	POINT 4 LOTUS 700	27	55
PRIAM 3450	<35>	29	POINT 4 LOTUS 710	27	55
PRIAM 3450.....	<35>	29	POINT 4 MARK 3	52	303
PRIAM 6650	<68>	50	POINT 4 LOTUS 700	27	57
PRIAM 6650	<68>	50	POINT 4 LOTUS 710	27	57
PRIAM 6650.....	<68>	50	POINT 4 MARK 3	52	311
PRIAM 7050	<70>	57	POINT 4 LOTUS 700	27	55
PRIAM 7050	<70>	57	POINT 4 LOTUS 710	27	55
PRIAM 7050	<70>	57	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 701[1]
Data General 4234-type[2]

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

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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 2

CONTROLLER: SI3045[1]

DISC ID: SI10MB

DATE: 11-01-83

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	630	630

No. Cyls in LU/0
200

DEVICE CODE 40

DISC DRIVER ADDR 64116

BZUD ADDR 64004

LRC 30

NPTC 2

DFLG 100500

NTRS 214

PHYU 100 + 400*D + 10*D + 100000*P

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

DISC COPY PROGRAM DDCOPY.2

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]The SI3045 Controller does not allow memory expansion above 32K words.

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 6

CONTROLLER: MCT TDC-802

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

ENTRY NO.: 7

CONTROLLER: MCT TDC-802

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

ENTRY NO.: 8

CONTROLLER: MCT TDC-802

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

ENTRY NO.: 9

CONTROLLER: MCT TDC-802

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

DISC COPY PROGRAM DDCOPY.9

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.: 10

CONTROLLER: MCT TDC-802

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

ENTRY NO.: 11

CONTROLLER: BALL 3170[1]

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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 12

CONTROLLER: MCT SMC-902

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

ENTRY NO.: 13

CONTROLLER: MCT SMC-902

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.: 14

CONTROLLER: MCT SMC-902

DISC ID: MC9CMD

DATE: 11-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9448 CMD (32MB, 64MB, or 96MB)	1450	1450

No. Cyls in LU/0
140

DEVICE CODE 36

DISC DRIVER ADDR 65016

BZUD ADDR 64404

LRC 41

NPTC 1

DFLG 40500

NTRS 313

PHYU 100*D + P + 100000 if fixed[1]

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

DISC COPY PROGRAM DDCOPY.14

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]The fixed has 1, 3, or 5 surfaces (P=0-4)

R8 DISC SPECIFICATION

ENTRY NO.: 22

CONTROLLER: DG 6030 floppy subsystem[1]

DISC ID: DGFL33

DATE: 08-01-83

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 121000

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

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

[2]LU/0 cannot be created from CTUTILITY.

R8 DISC SPECIFICATION

ENTRY NO.: 23

CONTROLLER: POINT 4 LOTUS 701[1]
Data General 4234-type[2]

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

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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 24

CONTROLLER: DG 6030 floppy subsystem[1]

DISC ID: DGFL40

DATE: 08-01-83

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 121000

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

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

[2]LU/0 cannot be created from CTUTILITY.

R8 DISC SPECIFICATION

ENTRY NO.: 26

CONTROLLER: Data General 6070 Subsystem[1]

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

[1]The 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 + (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 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

ENTRY NO.: 32

CONTROLLER: Data General 4060[1]

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

[1]The 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

DISC COPY PROGRAM

SETUP PARAMETERS

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 36

CONTROLLER: POINT 4 LOTUS 700[1]

DISC ID: 700CMD

DATE: 08-01-83

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 62356

BZUD ADDR 62004

LRC 40

NPTC 1

DFLG 500

NTRS 220

PHYU 60000 + (P*4) + 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

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

R8 DISC SPECIFICATION

ENTRY NO.: 37

CONTROLLER: POINT 4 LOTUS 700[1]

DISC ID: P40K80

DATE: 08-01-83

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 62356

BZUD ADDR 62004

LRC 600

NPTC 14

DFLG 40500

NTRS 3020

PHYU D + 20060
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

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

R8 DISC SPECIFICATION

ENTRY NO.: 38

CONTROLLER: POINT 4 LOTUS 700[1]

DISC ID: P480MB

DATE: 08-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-940 (40MB)	626	631[3]
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 62356

BZUD ADDR 62004

LRC 240

NPTC 5

DFLG 40500

NTRS 1220

PHYU D + 20024
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

[1]When ordering, specify an "E PROM" and the drive unit number.
[2]Format and copy Ball BD-80 and CDC 9710 using entry for CDC 9762.
[3]LU MAY NOT exceed total cylinders on disc.

R8 DISC SPECIFICATION

ENTRY NO.: 39

CONTROLLER: POINT 4 LOTUS 700[1]

DISC ID: P4300M

DATE: 08-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-9300 (300MB) CDC 9766 SMD (300MB) CDS T-302 CDS T-306[2]	1452 1462 1452 1462	153

No. Cyls in LU/0
6

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 1140

NPTC 23

DFLG 40500

NTRS 4620

PHYU D + 20114
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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 40

DISC ID: S12300

DATE: 05-01-83

CONTROLLER: MCT SMC-12
Ampex ADC-02

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Ampex DM-9300 CDC 9766 CDS T-302 CDS T-306	1452 1462 1452 1462	153

No. Cyls in LU/0
6

DEVICE CODE 60

DISC DRIVER ADDR 61216

BZUD ADDR 61004

LRC 1140

NPTC 23

DFLG 40500

NTRS 4620

PHYU D

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

DISC COPY PROGRAM DDCOPY.40

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 41

CONTROLLER: POINT 4 LOTUS 700[1]

DISC ID: P4F135

DATE: 08-01-83

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 62356

BZUD ADDR 62004

LRC 400

NPTC 10

DFLG 40500

NTRS 2020

PHYU D + 20040

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

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

[2]This drive requires DISCUTILITY 2.2 or later.

R8 DISC SPECIFICATION

ENTRY NO.: 43

CONTROLLER: Data General 6067 Susbystem[1]

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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 44

CONTROLLER: MCT SMC-902

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

ENTRY NO.: 45

CONTROLLER: POINT 4 LOTUS 700[1]

DISC ID: 700LMU

DATE: 04-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9455 LMU 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

[1]When ordering, specify a "4 PROM" and the drive unit number.

[2]This drive requires DISCUTILITY 2.2 or later; drive must have "seek-after-head change" option enabled.

R8 DISC SPECIFICATION

ENTRY NO.: 46

CONTROLLER: POINT 4 LOTUS 700 or 710[1]

DISC ID: P4F168

DATE: 04-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2284 (168MB 14")[2]	1462	314
Fujitsu M2322K (168MB 8")[2,3]	1462	314
CDC 9715 (168MB)[2,3]	1462	314

No. Cyls in LU/0
12

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 500

NPTC 12

DFLG 40500

NTRS 2420

PHYU D + 20050

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

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

[2]This drive requires DISCUTILITY 2.2 or later.

[3]Use same drive type as for Fujitsu M2284 (168MB) drive.

R8 DISC SPECIFICATION

ENTRY NO.: 47

DISC ID: P41073

DATE: 08-16-82

CONTROLLER: POINT 4 LOTUS 701[1]
Data General 4234-type[2]

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

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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 48

CONTROLLER: DG 6030 floppy subsystem[1]

DISC ID: DGFL73

DATE: 08-01-83

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 121000

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

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

[2]LU/0 cannot be created from CTUTILITY.

R8 DISC SPECIFICATION

ENTRY NO.: 49

CONTROLLER: Data General 4060[1]

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 50

CONTROLLER:

DISC ID:

DATE: 08-01-83

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

DISC COPY PROGRAM

SETUP PARAMETERS

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 51

CONTROLLER: Data General 4046[1]

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 52

CONTROLLER:

DISC ID:

DATE: 08-01-83

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

DISC COPY PROGRAM

SETUP PARAMETERS

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 53

CONTROLLER:

DISC ID:

DATE: 08-01-83

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

DISC COPY PROGRAM

SETUP PARAMETERS

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 54

CONTROLLER: POINT 4 LOTUS 700 OR 710[1]

DISC ID: P4LF84

DATE: 08-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2312K	1110	444

No. Cyls in LU/0
16

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 340

NPTC 7

DFLG 40500

NTRS 1620

PHYU D + 20034
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

NOTES

[1]When ordering, specify a "G PROM" and the drive unit number.

R8 DISC SPECIFICATION

ENTRY NO.: 55

CONTROLLER: POINT 4 LOTUS 700 OR 710[1]

DISC ID: P4LPRI

DATE: 08-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Priam 3450 (35MB)	775[2]	775
Priam 7050 (70MB)	1760[2]	1123

No. Cyls in LU/0
34

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 156

NPTC 5

DFLG 40500

NTRS 1213

PHYU D + 13024
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

NOTES

[1]When ordering, specify an "E PROM" and the drive unit number.
[2]Priam drives require 20 alternate tracks.

R8 DISC SPECIFICATION

ENTRY NO.: 56

CONTROLLER: POINT 4 LOTUS 710[1]

DISC ID: 710LMU

DATE: 08-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9455 LMU LARK (16MB)[2]	311	311
CDC 9457 LMU LARK (50MB)	1153	1153

No. Cyls in LU/0
60

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 100

NPTC 2

DFLG 40500

NTRS 420

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

DISC COPY PROGRAM DISCUTILITY 2 (LOTUS)

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]Specify a "4 PROM" and the drive unit number.

[2]9455 does NOT require the seek on head change option.

R8 DISC SPECIFICATION

ENTRY NO.: 57

CONTROLLER: POINT 4 LOTUS 700 or 710[1]

DISC ID: PRILOT

DATE: 01-01-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Priam 3350 (34MB)[2]	1054	1054
Priam 6650 (68MB)[2]	1773	1252

No. Cyls in LU/0
40

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 140

NPTC 3

DFLG 500

NTRS 620

PHYU 20014 + D
where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (LOTUS)[3]

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]When ordering, specify a "C PROM" and the drive unit number.
[2]Requires patch for STREAMER (see Appendix A).
[3]Requires DISCUTILITY 2.3 or later.

R8 DISC SPECIFICATION

ENTRY NO.: 58

CONTROLLER: POINT 4 LOTUS 700 AND 710[1]

DISC ID: PT4335

DATE: 06-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2294 (335.5MB)[2]	1773	177

No. Cyls in LU/0
6

DEVICE CODE 27

DISC DRIVER ADDR 62356

BZUD ADDR 62004

LRC 1000

NPTC 20

DFLG 40500

NTRS 4020

PHYU 20100 + D

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

DISC COPY PROGRAM DISCUTILITY (LOTUS)[3]

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]When ordering, specify a "P PROM" and the drive unit number.
[2]Requires patch for STREAMER (see Appendix A).
[3]Requires DISCUTILITY 2.3 or later.

R8 DISC SPECIFICATION

ENTRY NO.: 201

CONTROLLER: POINT 4 MARK 2

DISC ID: MK2A20

DATE: 02-01-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Atasi 3020 (20MB)	1206	1206

No. Cyls in LU/0
100

DEVICE CODE 52

DISC DRIVER ADDR 67016

BZUD ADDR 66404

LRC 60

NPTC 3

DFLG 40500

NTRS 320

PHYU 4014 + D

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

DISC COPY PROGRAM DISCUTILITY (MARK 2)

SETUP PARAMETERS

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 202

CONTROLLER: POINT 4 MARK 2

DISC ID: MK2A46

DATE: 02-01-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Atasi 3046 (46MB)	1206	1111

No. Cyls in LU/0
34

DEVICE CODE 52

DISC DRIVER ADDR 67016

BZUD ADDR 66404

LRC 160

NPTC 7

DFLG 40500

NTRS 720

PHYU 4034 + D
where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM DISCUTILITY (MARK 2)

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

R8 DISC SPECIFICATION

ENTRY NO.: 203

CONTROLLER: POINT 4 MARK 2

DISC ID: MK2C19

DATE: 11-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CMI 19MB	462	462

No. Cyls in LU/0
40

DEVICE CODE 52

DISC DRIVER ADDR 70416[1]

BZUD ADDR 70004[2]

LRC 140

NPTC 6

DFLG 40500

NTRS 620

PHYU 4030 + D

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

DISC COPY PROGRAM MARK 2 DISCUTILITY

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

[1]For IRIS 8.2 systems prior to 8.2C1, use DISC DRIVER ADDR 67016.
[2]For IRIS 8.2 systems prior to 8.2C1, use BZUD ADDR 66404.

R8 DISC SPECIFICATION

ENTRY NO.: 204

CONTROLLER: POINT 4 MARK 2

DISC ID: MK2FLD

DATE: 11-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
5-1/4" 2D[1]	115	115

No. Cyls in LU/0
NA[2]

DEVICE CODE 52

DISC DRIVER ADDR 72016

BZUD ADDR 71404

LRC 20

NPTC 2

DFLG 500

NTRS 210

PHYU 42110 + D

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

DISC COPY PROGRAM MARK 2 DISCUTILITY

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

[1]Requires IRIS R8.2C1 or later and MARK 2 DISCUTILITY 2.3B or later.

[2]Does not have sufficient capacity to support LU/0 on floppy.

R8 DISC SPECIFICATION

ENTRY NO.: 205

CONTROLLER: POINT 4 MARK 2

DISC ID: MK2C12

DATE: 11-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CMI 12MB[1]	462	462

No. Cyls in LU/0
60

DEVICE CODE 52

DISC DRIVER ADDR 70416

BZUD ADDR 70004

LRC 100

NPTC 4

DFLG 40500

NTRS 420

PHYU 4020 + D

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

DISC COPY PROGRAM MARK 2 DISCUTILITY

SETUP PARAMETERS

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

CONFIG Address	OLD Contents	NEW Contents

NOTES

[1]Requires IRIS R8.2C1 or later and MARK 2 DISCUTILITY 2.3B or later.

R8 DISC SPECIFICATION

ENTRY NO.: 301

CONTROLLER: POINT 4 MARK 3

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

ENTRY NO.: 302

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3LMD

DATE: 06-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
CDC 9455 LARK (16MB)	311	311
CDC 9457 LARK (50MB)	1140[1]	1140

No. Cyls in LU/0
60

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZJD 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

[1]CDC 9457 drives require 20 (octal) alternate tracks. Therefore, total number of cylinders has been reduced from 1153 to 1140.

R8 DISC SPECIFICATION

ENTRY NO.: 303

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3PRI

DATE: 09-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
PRIAM 3450 (35MB)	775[1]	775
KENNEDY 6173 (40MB)	1123	1123
PRIAM 7050 (70MB)	1740[2]	1123

No. Cyls in LU/0
34

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 156

NPTC 5

DFLG 40500

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

[1]This number takes into consideration the requirement for 20 alternate tracks on the PRIAM 3450.

[2]This number takes into consideration the requirement for 40 alternate tracks on the PRIAM 7050.

R8 DISC SPECIFICATION

ENTRY NO.: 304

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3BAS

DATE: 09-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
KENNEDY 6172 (20MB)	1123	1123
CDC 9410 Finch (24MB)	1130	1130

No. Cyls in LU/0
57

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 102

NPTC 3

DFLG 40500

NTRS 613

PHYU 13006 + 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

ENTRY NO.: 305

CONTROLLER: POINT 4 MARK 3

DISC ID: MK380M

DATE: 06-10-84

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)	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

[1]LU MAY NOT exceed total cylinders on disc.

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

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

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

R8 DISC SPECIFICATION

ENTRY NO.: 307

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3F84

DATE: 05-01-83

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M-2312-K (84MB)	1075[1]	444

No. Cyls in LU/0
16

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZJD 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

[1]This value has been decreased from 1110 to 1075 octal to allow more alternate tracks per manufacturer's specifications.

R8 DISC SPECIFICATION

ENTRY NO.: 308

CONTROLLER: POINT 4 MARK 3

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

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.: 309

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3168

DATE: 04-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2284 (168MB 14")	1462	314
CDC 9715 (168MB)[1]	1462	314
Fujitsu M2322K (168MB 8")[2]	1442	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

[1]Format and copy CDC 9715 using MARK 3 DISCUTILITY drive type for Fujitsu M2284.

[2]Requires MARK 3 DISCUTILITY 3.4 or later.

R8 DISC SPECIFICATION

ENTRY NO.: 310

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3080

DATE: 04-10-84

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

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.: 311

CONTROLLER: POINT 4 MARK 3

DISC ID: MK3P36

DATE: 02-01-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Priam 3350 (34MB)	1054	1054
Priam 6650 (68MB)	1773	1252

No. Cyls in LU/0
40

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 140

NPTC 3

DFLG 500

NTRS 620

PHYU 20006 + D
where D = drive unit no.
P = platter or surface

DISC COPY PROGRAM MARK 3 DISCUTILITY[1]

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]On version 3.2 of MARK 3 DISCUTILITY, a patch is required for these drives (see Appendix A). On later versions, no patch is required.

R8 DISC SPECIFICATION

ENTRY NO.: 312

CONTROLLER: POINT 4 MARK 3

DISC ID: M3F335

DATE: 06-10-84

DRIVE	Total Cyls On Disc	Max Cyls Other LUs
Fujitsu M2294 (335.5MB)	1773	177

No. Cyls in LU/0
6

DEVICE CODE 52

DISC DRIVER ADDR 53616

BZUD ADDR 46404

LRC 1000

NPTC 20

DFLG 40500

NTRS 4020

PHYU 20040 + D

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

DISC COPY PROGRAM MARK 3 DISCUTILITY[1]

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

CONFIG Address	OLD Contents	NEW Contents
NONE		

NOTES

[1]On version 3.2 of MARK 3 DISCUTILITY, a patch is required for this drive (see Appendix A). On later versions, no patch is required.

R8 DISC SPECIFICATION

ENTRY NO.: 360

CONTROLLER: POINT 4 MARK 3 FLOPPY

DISC ID: M3F82D

DATE: 08-01-83

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 20500

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

[1]Requires 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
@	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.

Terminal	Port Type
AMPEX CORPORATION	
DIALOGUE 80	17
APPLIED DIGITAL DATA SYSTEMS (ADDS)	
REGENT 20, 40, 60	15
REGENT 25	23
VIEWPOINT	23
BEEHIVE	
100	10
DATA GENERAL	
6052/6053	11
DATA MEDIA	
ELITE 1520A	6
ELITE 1521A	7
ELITE 1521A, Enhanced Terminal	7
DIGITAL	
VT100	8
GENERAL ELECTRIC	
TERMINET	5
HAZELTINE	
1500	12
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
POINT 4	
WS100* **	16
WS100 with protected fields option * **	16
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: TERM.ADM1

DATE: 08-01-83

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
BB		X
BD	X	
BP	X	
BR		X
BT		X
BU		X
BX		X
CE	(2) (3) (4)	(1)
CL	(2) (3) (4)	(1)
CR	X	
CS	X	
CU	X	
DC	(2) (3)	(1) (4)
DL	(2) (3)	(1) (4)
EB		X
ED	X	
EP	X	
ER		X
ET		X
EU		X
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM	X	
FX	X	
IC	(2) (3)	(1) (4)
IL	(2) (3)	(1) (4)
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT		X
@	(2) (3) (4)	(1)
Cursor Track Mode	(2) (3) (4)	(1)

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 3

TERMINAL TYPE CODE: 3

DRIVER TO ENABLE: TERM.ADM3

DATE: 08-01-83

TERMINAL(S)

Lear Siegler ADM-3A

FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X
BD		X
BP		X
BR		X
BT		X
BU		X
BX		X
CE		X
CL		X
CR	X	
CS	X	
CU		X
DC		X
DL		X
EB		X
ED		X
EP		X
ER		X
ET		X
EU		X
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM		X
FX		X
IC		X
IL		X
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT		X
@	X	
Cursor Track Mode	X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 4

TERMINAL TYPE CODE: 4

DRIVER TO ENABLE: TERM.TV950

DATE: 08-01-83

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 Track Mode	X	
EX		X			

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 5

TERMINAL TYPE CODE: 5

DRIVER TO ENABLE: TERM.INET[1]

DATE: 08-01-83

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 Track Mode		
EX		X			X

NOTES

[1]The 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: TERM.DM1520

DATE: 08-01-83

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 Track Mode		
EX		X		X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 7

TERMINAL TYPE CODE: 7

DRIVER TO ENABLE: TERM.DM1521

DATE: 08-01-83

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			
EU	(2)	(1)	Cursor Track Mode		
EX		X		X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 8

TERMINAL TYPE CODE: 10

DRIVER TO ENABLE: TERM.VT100

DATE: 08-01-83

TERMINAL(S)

DIGITAL VT100

FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X	
BD	X	
BP		X
BR	X	
BT		X
BU	X	
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU		X
DC		X
DL		X
EB	X	
ED	X	
EP		X
ER	X	
ET		X
EU	X	
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM		X
FX		X
IC		X
IL		X
LF	X	
LK		X
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD	X	
UK		X
VT	X	
@	X	
Cursor Track Mode		X

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 9

TERMINAL TYPE CODE: 11

DRIVER TO ENABLE: TERM.H2000

DATE: 08-01-83

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 Track Mode		
EX		X			X

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 10

TERMINAL TYPE CODE: 12

DRIVER TO ENABLE: TERM.B100

DATE: 08-01-83

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 Track Mode		
EX		X			X

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 11

TERMINAL TYPE CODE: 13

DRIVER TO ENABLE: TERM.DGC

DATE: 03-10-84

TERMINAL(S)

DATA GENERAL 6052/6053

FUNCTION	AVAILABLE	NOT AVAILABLE	FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X		FF		X
BD	X[1]		FM		X
BP		X	FX		X
BR		X	IC		X
BT		X	IL		X
BU	X[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[1]		UK		X
EP		X	VT		X
ER		X	@	X	
ET		X			
EU	X[1]		Cursor Track Mode		X
EX		X			

NOTES

[1]Enhanced terminal

R8 $TERMS SPECIFICATION

PORT TYPE: 12

TERMINAL TYPE CODE: 14

DRIVER TO ENABLE: TERM.H1500

DATE: 09-01-83

TERMINAL(S)

Hazeltine 1500

FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X
BD	X	
BP	X	
BR		X
BT		X
BU		X
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU	X	
DC		X
DL	X	
EB		X
ED	X	
EP	X	
ER		X
ET		X
EU		X
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM		X
FX		X
IC		X
IL	X	
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT		X
@	X	
Cursor Track Mode		X

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 13

TERMINAL TYPE CODE: 15

DRIVER TO ENABLE: TERM.ACT5

DATE: 08-01-83

TERMINAL(S)

Micro-Term Act-V

FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X	
BD	X	
BP	X	
BR	X	
BT		X
BU	X	
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU	X	
DC	X	
DL	X	
EB	X	
ED	X	
EP	X	
ER	X	
ET		X
EU	X	
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM	X	
FX	X	
IC	X	
IL	X	
LF	X	
LK		X
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK		X
VT		X
@	X	
Cursor Track Mode	X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 14

TERMINAL TYPE CODE: 16

DRIVER TO ENABLE: TERM.TV912

DATE: 08-01-83

TERMINAL(S)

Televideo 912
Televideo 920

FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X	
BD	X	
BP	X	
BR	X	
BT		X
BU	X	
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU	X	
DC	X	
DL	X	
EB	X	
ED	X	
EP	X	
ER	X	
ET		X
EU	X	
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM	X	
FX	X	
IC	X	
IL	X	
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT	X	
@	X	
Cursor Track Mode	X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 15

TERMINAL TYPE CODE: 17

DRIVER TO ENABLE: TERM.ADDS

DATE: 10-01-83

TERMINAL(S)

(1) ADDS Regent 20,40,60

FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X
BD		X
BP		X
BR		X
BT		X
BU		X
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU		X
DC		X
DL		X
EB		X
ED		X
EP		X
ER		X
ET		X
EU		X
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM		X
FX		X
IC		X
IL		X
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT	(1)	(2)
@	X	
Cursor Track Mode	X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 16

TERMINAL TYPE CODE: 20

DRIVER TO ENABLE: TERM.WS100

DATE: 06-10-84

TERMINAL(S)

POINT 4 WS100[1]
POINT 4 WS100 with protected fields option[2]

FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X	
BD	X	
BP	(2)	(1)
BR	X	
BT		X
BU	X	
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU	(2)	(1)
DC		X
DL	X	
EB	X	
ED	X	
EP	(2)	(1)
ER	X	
ET		X
EU	X	
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM	(2)	(1)
FX	(2)	(1)
IC		X
IL	X	
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT		X
@	X	
Cursor Track Mode	X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 17

TERMINAL TYPE CODE: 21

DRIVER TO ENABLE: TERM.DIAL80

DATE: 08-01-83

TERMINAL(S)

Ampex Dialogue 80

FUNCTION	AVAILABLE	NOT AVAILABLE
BB	X	
BD	X	
BP	X	
BR	X	
BT		X
BU	X	
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU	X	
DC		X
DL		X
EB	X	
ED	X	
EP	X	
ER	X	
ET		X
EU	X	
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM	X	
FX	X	
IC		X
IL		X
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT		X
@	X	
Cursor Track Mode	X	

NOTES

R8 $TERMS SPECIFICATION

PORT TYPE: 23

TERMINAL TYPE CODE: 27

DRIVER TO ENABLE: TERMADDS25

DATE: 10-01-83

TERMINAL(S)

(1) ADDS Regent 25
(2) ADDS Viewpoint

FUNCTION	AVAILABLE	NOT AVAILABLE
BB		X
BD		X
BP		X
BR		X
BT		X
BU		X
BX		X
CE	X	
CL	X	
CR	X	
CS	X	
CU		X
DC		X
DL		X
EB		X
ED		X
EP		X
ER		X
ET		X
EU		X
EX		X

FUNCTION	AVAILABLE	NOT AVAILABLE
FF		X
FM		X
FX		X
IC		X
IL		X
LF	X	
LK	X	
MD	X	
MH	X	
ML	X	
MP		X
MR	X	
MU	X	
RB	X	
RD		X
UK	X	
VT	(1)	(2)
@	X	
Cursor Track Mode	X	

NOTES

Point 4 Data Corporation

FOR ENTRY # 57 (STRM)

+--- P4DC production manager only ---+

| Status _____ |
| Production System |
| Update by_____ Date__/__/__ |
| SCO # _____ Date__/__/__ |
| Master File |
| Update by_____ Date__/__/__ |
| Master File |
| Name _____ |

+-----------------------------------+

Patch #: STREAM20SA-03

Product: STREAM

Detail: STREAMER

Asm Date: 2256 Release #: 2.0

Update Date: 11-Oct-83 By: RDC2

Problem: NEED TO ADD PRIAM DRIVES 3350 (34 MB) AND 6650 (68 MB)

<For MARK 5 STREAMER 2.0 only>

Special Instructions: THE DRIVE TYPE FOR THE PRIAM 3350 (34 MB) IS : 73.

THE DRIVE TYPE FOR THE PRIAM 6650 (68 MB) IS : 74.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
010016	0	;	000000
010017	2	;	000002
010020	40	;	000040
010021	1060	;	001060
010022	0	;	000000
010023	2	;	000002
010024	40	;	000040
010025	1777	;	001777

Point 4 Data Corporation

FOR ENTRY # 58 (STRM)

+--- P4DC production manager only ---+

| Status _____ |
| Production System |
| Update by_____ Date__/__/__ |
| |
| SCO # _____ Date__/__/__ |
| Master File |
| Update by_____ Date__/__/__ |
| Master File |
| Name _____ |

+-----------------------------------+

Patch #: STREAM20SA-04

Product: STREAM

Detail: STREAMER

Asm Date: 2256 Release #: V 2.0

Update Date: 14-Nov-83 By: RDC3

Problem: NEED TO ADD FUJITSU M2294 (335.5 MB) DRIVE

<For MARK 5 STREAMER 2.0 only>

Special Instructions:

THE DRIVE TYPE FOR THE FUJITSU M2294 (333.5 MB) IS : 65.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
007756	0	;	000000
007757	17	;	000000
007760	40	;	000000
007761	1777	;	000000

Point 4 Data Corporation

FOR ENTRY # 311

+--- P4DC production manager only ---+

| Status _____ |
| Production System |
| Update by_____ Date__/__/__ |
| SCO # _____ Date__/__/__ |
| Master File |
| Update by_____ Date__/__/__ |
| Master File |
| Name _____ |

+-----------------------------------+

Patch #: M3DUTL32SA-06

Product: M3DUTL

Detail: DISCUTILITY 3.2

Asm Date: 3152 Release #: V 3.2

Update Date: 26-Sep-83 By: RDC1

Problem: NEED TO ADD PRIAM DRIVES 3350 (34 MB) AND 6650 (68 MB)

<For MARK 3 DISCUTILITY 3.2 only>

Special Instructions: THE DRIVE TYPE FOR THE PRIAM 3350 (34 MB) IS : 111.

THE DRIVE TYPE FOR THE PRIAM 6650 (68 MB) IS : 112.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
015414	0	;	000000
015415	2	;	000000
015416	40	;	000000
015417	1060	;	000000
015420	5	;	000000
015421	0	;	000000
015422	2	;	000000
015423	40	;	000000
015424	1777	;	000000
015425	5	;	000000

Point 4 Data Corporation

FOR ENTRY # 312

+--- P4DC production manager only ---+

| Status _____ |
| Production System |
| Update by_____ Date__/__/__ |
| SCO # _____ Date__/__/__ |
| Master File |
| Update by_____ Date__/__/__ |
| Master File |
| Name _____ |

+-----------------------------------+

Patch #: M3DUTL32SA-07

Product: M3DUTL

Detail: DISCUTILITY 3.2

Asm Date: 3152 Release #: V 3.2

Update Date: 14-Nov-83 By: RDC2

Problem: NEED TO ADD FUJITSU M2294 (335.5 MB) DRIVE

<For MARK 3 DISCUTILITY 3.2 only>

Special Instructions:

THE DRIVE TYPE FOR THE FUJITSU M2294 (333.5 MB) IS : 101.

Location (Octal)	New Contents (Octal a/o Symbolic)	Comments (Describe Solution)	Old Contents
015344	0	;	000000
015345	17	;	000000
015346	40	;	000000
015347	1777	;	000000
015350	5	;	000000

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.

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 = R82CONFIGSC; BO = A.CONFIG.3162! >>

; "CONFIG" == Configuration file for "IRIS" R8.2
; "UNIVERAL" base file - Loc 0 to 1777 fits all discs


            12       .RDX 10


             4 MONTH = 4
            36 DAY   = 30
          3677 YEAR  = 1983



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; SYSTEM CONFIGURATION DATE (HOURS AFTER JAN 1 OF BASE YEAR)

         72020 SDATE = YEAR-BASEYEAR*12+MONTH-1*31+DAY-1*24


             1       .TXTM  1
            10       .RDX   8


; CONFIG file layout
;
;     0 - 277      ;Reserved
;   300 - 377      ;Initilization Table
;   400 - 577      ;General Information Table
;   600 - 777      ;System Information Table
;  1000 - 1177     ;Memory Resident Discsub List
;  1200 - 1377     ;Reserved
;  1400 - 2777     ;Disc Driver Table
;  3000 - 13777    ;Reserved

; 14000 - 15777    ;Disc Driver Index
; 16000 - 16377    ;Log On Restrictions Table
; 16400 - 17377    ;Log On Program Start Table
; 17400 - 17777    ;IPL Program Start Table
; 20000 - 77777    ;Disc Drivers


             0       .LOC   0        ;Block zero
       0 177777      -1


           300       .LOC   300      ;Driver init routine RDA list
```

```
     PAGE 2
;                    << SI = R82CONFIGSC; BO = A.CONFIG.31621 >>


           400       .LOC   400      ;GENERAL INFORMATION TABLE

     400  20000       20000  ;Partition Size
     401      1       1      ;Number of Partitions
     402      0       0      ;Memory Type


           600       .LOC   INFO     ;SYSTEM INFORMATION TABLE

     600  72020       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 ot active ports (TNAP)
                             ;  (May be increased by SIR)
     606 120000       120000 ;Special conditions flags **
     607  43200       MEPS   ;Location of end of processor storage
     610 177777       177777 ;Top word of core to be used
     611   1004       1004   ;Auxiliary buffer size (number of words)
     612      0       0      ;Maximum number of user discsubs (DISCSUBS.USER)
     613      4       4      ;Number of extra character queue nodes
     614     40       40     ;Minimum # ot free nodes
     615     30       30     ;Number ot signal buffer nodes
     616    200       200    ;Maximum number of system discsubs (DISCSUBS)
     617  24003       24003  ;Time slice parameters (Long time
                             ;  slice * 400 + short time slice)
     620 177777       177777 ;reserved
     621 177777       177777 ;reserved
     622     10       10     ;start with 10 pseudo dev.'s
     623      7       .BLK   SZICON+INFO-.;(Reserved)


;     *  For MARK 3, set to 1200
;        For NOVA 3 CPU, add 100000 for interrupt detour

;    **  Bit 15 = 1  ==>  No dirty buffers
;        Bit 14 = 1  ==>  Suppress BASIC error text
;        Bit 13 = 1  ==>  Intra user buffering
```

```
     PAGE 3
;                    << SI = R82CONFIGSC; BO = A.CONFIG.3162! >>

          1000       .LOC   1000      ;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
     1002     101        LOADP
     1003       3        FFILE
     1004      15        ACNTLOOKUP
     1005      22        OPEN&377
     1006      26        CLOSE
     1007      30        GETRR&377
     1010      33        READITEM
     1011       1        ALLOCATE
     1012      40        CHARGE
     1013      36        READCONTIG
     1014      61        SEARCH&377
     1015      62        SHUFFLE
     1016      63        DEKEY
     1017      27        CLEAR
     1020      46        SPECIAL
     1021      57        SIGPAUSE
     1022      41        SYSCO
     1023  177777        -1
```

```
PAGE 4
;                    << SI = R82CONFIGSC; BO = A.CONFIG.3162! >>

       1400          .LOC   1400      ;DISC DRIVER TABLE

1400      1 1        ;Real core 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       ;Device code 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 core 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   ;R8.2 "UNIVERAL" CONFIG file base
```

BINDI	6115	BINMU	6116	BPI	16	BSACF	75	BUMPU	6117
C10	30	C100	51	C1000	67	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	52	C1777	70	C2	2	C20	42	C200	53
C2000	71	C205	54	C215	55	C240	56	C244	57
C260	60	C271	61	C3	3	C300	62	C334	63
C37	43	C377	64	C4	24	C40	44	C400	65
C4000	72	C5	25	C6	26	C600	100	C7	27
C77	50	C774C	22	C777	66	CALL	6101	CHANN	6106
CM400	23	DA	160	DAC	164	DAS	165	DATAP	6110
DAY	36	DB	166	DBA	41	DBC	172	DBS	173
DECIM	6120	DQUEU	6105	ERRF	76	ESCF	73	ETSF	74
FINDL	6123	FIX	6121	FLAGC	6102	FLOAT	6122	FREEN	6107
GETBY	6124	INBYT	6125	INSTB	6126	ISA2D	6127	ISA2L	6130
JFLT0	151	LOADD	6131	MONTH	4	OUTBY	6132	OUTTE	6133
PIB	4	PUTBY	6134	QCHAR	6103	QUEUE	6104	READB	6135
RELJM	6136	RTP	7	RUP	5	SBA	40	SDATE	72020
SPINP	6146	STINP	6140	STINT	6147	STORD	6137	STOUT	6141
TASKQ	15	TRAPF	6142	WRITB	6143	XGETB	6144	XPUTB	6145
YEAR	3677	.ABA	14	.BPS	77	.BRKP	150	.BSA	10
.DA	174	.DA3	175	.DB	176	.DB3	177	.FLT0	152
.HBA	11	.HXA	12	.INFO	100	.INTR	111	.LCM	114
.NRET	112	.SRET	113	.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:

Octal Code	Control Key
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.

COMMENT SHEET

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