

CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCCCCCCCCCCC	LLL	IIIIIIII	UUU	UUU	TTTTTTTTTTTTTTTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCC	LLL	III	UUU	UUU	TTT	LLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL
CCCCCCCCCCCC	LLLLLLLLLLLLLLLL	IIIIIIII	UUUUUUUUUUUUUU	UUUUUUUUUUUUUU	TTTT	LLLLLLLLLLLLLLLL

```

SSSSSSSS  EEEEEEEEE  TTTTTTTTT  DDDDDDD  EEEEEEEEE  VV      VV  SSSSSSS
SSSSSSSS  EEEEEEEEE  TTTTTTTTT  DDDDDDD  EEEEEEEEE  VV      VV  SSSSSSS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SS        EE        TT        DD      DD  EEEEEEE  VV      VV  SSSSSS
SS        EE        TT        DD      DD  EEEEEEE  VV      VV  SSSSSS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SS        EE        TT        DD      DD  EE        VV      VV  SS
SSSSSSSS  EEEEEEEEE  TTT        DDDDDDD  EEEEEEEEE  VV      VV  SSSSSSS
SSSSSSSS  EEEEEEEEE  TTT        DDDDDDD  EEEEEEEEE  VV      VV  SSSSSSS

```

```

LL        IIIII  SSSSSSS
LL        IIIII  SSSSSSS
LL        II     SS
LL        II     SS
LL        II     SS
LL        II     SS
LL        II     SSSSSS
LL        II     SSSSSS
LL        II     SS
LL        II     SS
LL        II     SS
LL        II     SS
LLLLLLLLL  IIIII  SSSSSSS
LLLLLLLLL  IIIII  SSSSSSS

```

```
1 0001 0 MODULE setdevs ( IDENT = 'V04-000',
2 0002 0 ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL=LONG_RELATIVE)
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1 FACILITY: SET Command
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module implements the DCL commands SET CARD_READER, SET
36 0036 1 MAGTAPE, and SET PRINTER.
37 0037 1
38 0038 1 ENVIRONMENT:
39 0039 1
40 0040 1 VAX/VMS operating system, user mode
41 0041 1
42 0042 1 AUTHOR: Gerry Smith 23-Feb-1983
43 0043 1
44 0044 1 Modified by:
45 0045 1
46 0046 1 V03-004 DAS0001 David Solomon 09-Jul-1984
47 0047 1 Fix truncation errors; make nonexternal refs LONG_RELATIVE.
48 0048 1
49 0049 1 V03-003 EAD0146 Elliott A. Drayton 12-Apr-1984
50 0050 1 Add code for new printer characteristics TAB, TRUNCATE,
51 0051 1 SIXELS, and BITMAPPED.
52 0052 1
53 0053 1 V03-002 EMD0046 Ellen M. Dusseault 2-Feb-1984
54 0054 1 Add new line printer characteristic, fallback to
55 0055 1 routine, SET$PRINTER.
56 0056 1
57 0057 1 V03-001 GAS0112 29-Mar-1983
```

SETDEVS
V04-000

F 13
16-Sep-1984 00:47:57 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

Page 2
(1)

: 58
: 59
: 60
: 61

0058 1 !
0059 1 !
0060 1 !
0061 1 !--

Remove all references to old CLI interface, and old
command dispatcher.

```

63      0062 1  | Include files
64      0063 1  |
65      0064 1  |
66      0065 1  | LIBRARY 'SYSSLIBRARY:STARLET';      ! VAX/VMS common definitions
67      0066 1  |
68      0067 1  |
69      0068 1  |
70      0069 1  | Define bit settings for the flags longword
71      0070 1  |
72      0071 1  | MACRO
73      0072 1  |     set$V_log           =      0, 0, 1, 0%,      ! /LOG
74      0073 1  |
75      0074 1  | For SET CARD_READER
76      0075 1  |
77      0076 1  |     set$V_029          =      0, 1, 1, 0%,      ! /029
78      0077 1  |     set$V_026          =      0, 2, 1, 0%,      ! /026
79      0078 1  |
80      0079 1  | For SET MAGTAPE
81      0080 1  |
82      0081 1  |     set$V_dens         =      0, 1, 1, 0%,      ! /DENSITY
83      0082 1  |     set$V_1600         =      0, 2, 1, 0%,      !           =1600
84      0083 1  |     set$V_800          =      0, 3, 1, 0%,      !           =800
85      0084 1  |     set$V_6250         =      0, 4, 1, 0%,      !           =6250
86      0085 1  |     set$V_logsoft     =      0, 5, 1, 0%,      ! /LOGSOFT
87      0086 1  |     set$V_nologsoft   =      0, 6, 1, 0%,      ! /NOLOGSOFT
88      0087 1  |     set$V_files       =      0, 7, 1, 0%,      ! /SKIP=FILES
89      0088 1  |     set$V_record      =      1, 0, 1, 0%,      ! /SKIP=RECORDS
90      0089 1  |
91      0090 1  | For SET PRINTER
92      0091 1  |
93      0092 1  |     set$V_ff           =      0, 1, 1, 0%,      ! /FF
94      0093 1  |     set$V_noff        =      0, 2, 1, 0%,      ! /NOFF
95      0094 1  |     set$V_cr          =      0, 3, 1, 0%,      ! /CR
96      0095 1  |     set$V_nocr        =      0, 4, 1, 0%,      ! /NOCR
97      0096 1  |     set$V_pass        =      0, 5, 1, 0%,      ! /PASSALL
98      0097 1  |     set$V_nopass      =      0, 6, 1, 0%,      ! /NOPASSALL
99      0098 1  |     set$V_print       =      0, 7, 1, 0%,      ! /PRINTALL
100     0099 1  |     set$V_noprint     =      1, 0, 1, 0%,      ! /NOPRINTALL
101     0100 1  |     set$V_wrap        =      1, 1, 1, 0%,      ! /WRAP
102     0101 1  |     set$V_nowrap      =      1, 2, 1, 0%,      ! /NOWRAP
103     0102 1  |     set$V_lower       =      1, 3, 1, 0%,      ! /LOWERCASE (NOUPPER)
104     0103 1  |     set$V_upper       =      1, 4, 1, 0%,      ! /UPPERCASE (NOLOWER)
105     0104 1  |     set$V_lp11        =      1, 5, 1, 0%,      ! /LP11
106     0105 1  |     set$V_la180       =      1, 6, 1, 0%,      ! /LA180
107     0106 1  |     set$V_la11        =      1, 7, 1, 0%,      ! /LA11
108     0107 1  |     set$V_unk         =      2, 0, 1, 0%,      ! /UNKNOWN
109     0108 1  |     set$V_page        =      2, 1, 1, 0%,      ! /PAGE=n
110     0109 1  |     set$V_width       =      2, 2, 1, 0%,      ! /WIDTH=n
111     0110 1  |     set$V_fallback    =      2, 3, 1, 0%,      ! /FALLBACK
112     0111 1  |     set$V_nofallback  =      2, 4, 1, 0%,      ! /NOFALLBACK
113     0112 1  |     set$V_truncate    =      2, 5, 1, 0%,      ! /TRUNCATE
114     0113 1  |     set$V_notruncate  =      2, 6, 1, 0%,      ! /NOTRUNCATE
115     0114 1  |     set$V_tab         =      2, 7, 1, 0%,      ! /TAB
116     0115 1  |     set$V_notab       =      3, 0, 1, 0%,      ! /NOTAB
117     0116 1  |     set$V_sixels      =      3, 1, 1, 0%,      ! /SIXELS
118     0117 1  |     set$V_nosixels    =      3, 2, 1, 0%,      ! /NOSIXELS
119     0118 1  |     set$V_bitmapped   =      3, 3, 1, 0%,      ! /BITMAPPED

```

SETDEVS
V04-000

M 13
16-Sep-1984 00:47:57 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32;1

: 120 0119 1 set\$V_nobitmapped = 3, 4, 1, 0%: ! /NOBITMAPPED

```

: 122      0120 1  | Table of contents
: 123      0121 1  |
: 124      0122 1  |
: 125      0123 1  |
: 126      0124 1 FORWARD ROUTINE
: 127      0125 1   set$card_reader : NOVALUE,
: 128      0126 1   set$magtape : NOVALUE,
: 129      0127 1   set$printer : NOVALUE;
: 130      0128 1  |
: 131      0129 1  |
: 132      0130 1  | External routines
: 133      0131 1  |
: 134      0132 1 EXTERNAL ROUTINE
: 135      0133 1   lib$cvt_dtb,           ! Convert ASCII to binary
: 136      0134 1   cli$get_value,       ! Get value from CLI
: 137      0135 1   cli$present;        ! See if qualifier is present
: 138      0136 1  |
: 139      0137 1  |
: 140      0138 1  |
: 141      0139 1  | Declare some shared messages
: 142      0140 1  |
: 143      P 0141 1 $SHR_MSGDEF      (SET,119,LOCAL,
: 144      P 0142 1   (valerr,          error),
: 145      0143 1   (invquaval,       error));
: 146      0144 1  |
: 147      0145 1  |
: 148      0146 1  | Declare literals defined elsewhere
: 149      0147 1  |
: 150      0148 1 EXTERNAL LITERAL
: 151      0149 1   set$_writeerr,       ! Error modifying device
: 152      0150 1   set$_devset1,        ! characteristic set
: 153      0151 1   set$_devset2,
: 154      0152 1   set$_eofset,         ! EOF written on tape
: 155      0153 1   cli$_ivdevtype,     ! Wrong device type
: 156      0154 1   cli$_devnotfor,     ! Device not mounted foreign
: 157      0155 1   cli$_absent,        ! Qualifier absent
: 158      0156 1   cli$_negated,       ! Qualifier explicitly negated
: 159      0157 1   cli$_abkeyw;        ! Ambiguous keyword
: 160      0158 1  |

```

```

162 0159 1 GLOBAL ROUTINE set$card_reader : NOVALUE =
163 0160 2 BEGIN
164 0161 2 +-
165 0162 2 Functional description
166 0163 2
167 0164 2 This is the routine for the SET CARD_READER command. It is called
168 0165 2 from the SET command processor, and sets the characteristics of
169 0166 2 a card reader.
170 0167 2
171 0168 2 Inputs
172 0169 2 None
173 0170 2
174 0171 2 Outputs
175 0172 2 None
176 0173 2
177 0174 2 ----
178 0175 2
179 0176 2 LOCAL
180 0177 2 status, ! Status return
181 0178 2 desc : $BBLOCK[dsc$ s bln], ! General purpose descriptor
182 0179 2 flags : $BBLOCK[4] INITIAL (0), ! Flags longword
183 0180 2 info_desc : VECTOR[2], ! $GETCHN descriptor
184 0181 2 info_block : $BBLOCK[12], ! $GETCHN information block
185 0182 2 channel : WORD, ! I/O channel
186 0183 2 iosb : VECTOR[4,WORD]; ! I/O status block
187 0184 2
188 0185 2
189 0186 2 ! Collect the name of the card reader.
190 0187 2
191 0188 2 $init_dyndesc(desc); ! Make the descriptor dynamic
192 0189 2 cli$get_value(%ASCID 'DEVICE',
193 0190 2 desc);
194 0191 2
195 0192 2
196 0193 2 ! Determine what characteristics to set, and whether or not to log them.
197 0194 2
198 0195 2 flags[set$v_log] = cli$present(%ASCID 'LOG');
199 0196 2 flags[set$v_029] = cli$present(%ASCID '029');
200 0197 2 flags[set$v_026] = cli$present(%ASCID '026');
201 0198 2 IF NOT .flags[set$v_029]
202 0199 2 AND NOT .flags[set$v_026]
203 0200 2 THEN RETURN;
204 0201 2
205 0202 2
206 0203 2 ! Assign a channel to the device.
207 0204 2
208 P 0205 2 IF NOT (status = $ASSIGN(DEVNAM = desc,
209 0206 2 CHAN = channel))
210 0207 2 THEN
211 0208 2 BEGIN
212 0209 2 SIGNAL(set$_writeerr, 1, desc, .status);
213 0210 2 RETURN;
214 0211 2 END;
215 0212 2
216 0213 2
217 0214 2 ! Determine if it is indeed a card reader.
218 0215 2

```



```

: 219      0216      2 info_desc[0] = 12;           | Set up the descriptor
: 220      0217      2 info_desc[1] = info_block;       | for $GETCHN
: 221      P 0218      2 IF NOT (status = $GETCHN($CDBUF = info_desc, | Issue the $GETCHN, asking for
: 222      0219      2                               CHAN = .channel)) | secondary characteristics (in
: 223      0220      2 THEN                                     | case it's spooled)
: 224      0221      2     BEGIN                                     | If a problem, signal it.
: 225      0222      2     SIGNAL(set$_writeerr, 1, desc, .status);
: 226      0223      2     RETURN;
: 227      0224      2     END;
: 228      0225      2
: 229      0226      2 IF .info_block[dib$b_devclass] NEQU dc$_card | If not a card reader,
: 230      0227      2 THEN                                     | signal that it's not.
: 231      0228      2     BEGIN
: 232      0229      2     SIGNAL(set$_writeerr, 1, desc,
: 233      0230      2       cli$_ivdevtype);
: 234      0231      2     END;
: 235      0232      2
: 236      0233      2 |
: 237      0234      2 | Set the specified characteristic.
: 238      0235      2 |
: 239      0236      2 IF .flags[set$v_026]
: 240      0237      2 THEN $BBLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t026
: 241      0238      2 ELSE $BBLOCK[info_block[dib$l_devchar], cr$v_tmode] = cr$k_t029;
: 242      0239      2
: 243      P 0240      2 status = $QIOW(CHAN = .channel,
: 244      P 0241      2       FUNC = IOS_SETMODE,
: 245      P 0242      2       IOSB = iosb,
: 246      P 0243      2       P1 = info_block[dib$b_devclass],
: 247      0244      2       P2 = 8);
: 248      0245      2
: 249      0246      2 IF .status
: 250      0247      2 THEN status = .iosb[0];
: 251      0248      2 IF NOT .status
: 252      0249      2 THEN
: 253      0250      2     BEGIN
: 254      0251      2     SIGNAL(set$_writeerr, 1, desc, .status);
: 255      0252      2     END
: 256      0253      2 ELSE IF .flags[set$v_log]
: 257      0254      2 THEN SIGNAL(set$_devset1, 2, desc, (IF .flags[set$v_026]
: 258      0255      2       THEN %ASCID '026'
: 259      0256      2       ELSE %ASCID '029'));
: 260      0257      2
: 261      0258      2 RETURN;
: 262      0259      1 END;

```

```

.TITLE SETDEVS
.IDENT \V04-000\

.PSECT $SPLITS,NOWRT,NOEXE,2

00 00 45 43 49 56 45 44 00000 P.AAB: .ASCII \DEVICE\<0><0>
          010E0006 00008 P.AAA: .LONG 17694726
          00000000 0000C .ADDRESS P.AAB
          00 47 4F 4C 00010 P.AAD: .ASCII \LOG\<0>
          010E0003 00014 P.AAC: .LONG 17694723
          00000000 00018 .ADDRESS P.AAD

```


			7E	7C	00085	CLRQ	-(SP)		
			7E	D4	00087	CLRL	-(SP)		
			AE	3C	00089	MOVZWL	CHANNEL, -(SP)		
	00000000G		00	05	FB	CALLS	#5, SYS\$GETCHN		
			52	50	D0	MOVL	R0, STATUS		
			51	52	E9	BLBC	STATUS, 5\$		
		41	8F	10	AE	CMPB	INFO_BLOCK+4, #65		0226
				10	13	BEQL	2\$		
				00000000G	8F	PUSHL	#CLIS_IVDEVTYPE		0229
				24	AE	PUSHAB	DESC		
					01	PUSHL	#1		
					56	PUSHL	R6		
			67	04	FB	CALLS	#4, LIB\$SIGNAL		
	06		53	02	E1	BBC	#2, FLAGS, 3\$		0236
		OC	AE	0F	8A	BICB2	#15, INFO_BLOCK		0237
				06	11	BRB	4\$		
OC	AE		04	00	01	INSV	#1, #0, #4, INFO_BLOCK		0238
					7E	CLRQ	-(SP)		0244
					7E	CLRQ	-(SP)		
					08	PUSHL	#8		
				24	AE	PUSHAB	INFO_BLOCK+4		
					7E	CLRQ	-(SP)		
				24	AE	PUSHAB	IOSB		
					23	PUSHL	#35		
			7E	28	AE	MOVZWL	CHANNEL, -(SP)		
					7E	CLRL	-(SP)		
	00000000G		00	0C	FB	CALLS	#12, SYS\$QIOW		
			52	50	D0	MOVL	R0, STATUS		
			07	52	E9	BLBC	STATUS, 5\$		0246
			52	04	AE	MOVZWL	IOSB, STATUS		0247
			0B	52	E8	BLBS	STATUS, 6\$		0248
				52	DD	PUSHL	STATUS		0251
				24	AE	PUSHAB	DESC		
					01	PUSHL	#1		
					56	PUSHL	R6		
					1E	BRB	9\$		
			1E	53	E9	BLBC	FLAGS, 10\$		0253
	06		53	02	E1	BBC	#2, FLAGS, 7\$		0254
			50	30	A4	MOVAB	P.AAI, R0		0255
					04	BRB	8\$		
			50	3C	A4	MOVAB	P.AAK, R0		0256
					50	PUSHL	R0		
				24	AE	PUSHAB	DESC		0254
					02	PUSHL	#2		
				00000000G	8F	PUSHL	#SETS_DEVSET1		
			67	04	FB	CALLS	#4, LIB\$SIGNAL		
				04	04	RET			0259

; Routine Size: 280 bytes, Routine Base: \$CODE\$ + 0000


```

321 0317 2 THEN                                ! case it's spooled)
322 0318 2 BEGIN                                ! If a problem, signal it.
323 0319 2 SIGNAL(set$_writeerr, 1, desc, .status);
324 0320 2 RETURN;
325 0321 2 END;
326 0322 2
327 0323 2 IF .info_block[dib$b_devclass] NEQU dc$_tape ! If not a tape,
328 0324 2 THEN ! signal that it's not.
329 0325 2 BEGIN
330 0326 2 SIGNAL(set$_writeerr, 1, desc,
331 0327 2 cli$_ivdevtype);
332 0328 2 RETURN;
333 0329 2 END;
334 0330 2 IF NOT .info_block[dev$v_mnt] ! If not mounted,
335 0331 2 THEN ! signal an error
336 0332 2 BEGIN
337 0333 2 SIGNAL(set$_writeerr, 1, desc, ss$_devnotmount);
338 0334 2 RETURN;
339 0335 2 END;
340 0336 2 IF NOT .info_block[dev$v_for] ! If not mounted foreign,
341 0337 2 THEN ! signal an error
342 0338 2 BEGIN
343 0339 2 SIGNAL(set$_writeerr, 1, desc, cli$_devnotfor);
344 0340 2 RETURN;
345 0341 2 END;
346 0342 2
347 0343 2
348 0344 2 ! Determine whether to log the actions taken.
349 0345 2
350 0346 2 flags[set$v_log] = cli$present(%ASCID 'LOG');
351 0347 2
352 0348 2
353 0349 2 ! Density
354 0350 2
355 0351 2 IF (flags[set$v_dens] = cli$get_value(%ASCID 'DENSITY', value_desc))
356 0352 2 THEN
357 0353 2 BEGIN
358 0354 2 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length],
359 0355 2 .value_desc[dsc$a_pointer],
360 0356 2 density))
361 0357 2 THEN
362 0358 2 BEGIN
363 0359 2 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'DENSITY');
364 0360 2 RETURN;
365 0361 2 END;
366 0362 2 IF .density EQL 1600
367 0363 2 THEN
368 0364 2 BEGIN
369 0365 2 flags[set$v_1600] = 1;
370 0366 2 mt_char[mt$v_density] = mt$k_pe_1600;
371 0367 2 END
372 0368 2 ELSE IF .density EQL 800
373 0369 2 THEN
374 0370 2 BEGIN
375 0371 2 flags[set$v_800] = 1;
376 0372 2 mt_char[mt$v_density] = mt$k_nrzi_800;
377 0373 2 END

```

```

378 0374 3 ELSE IF .density EQL 6250
379 0375 3 THEN
380 0376 4 BEGIN
381 0377 4 flags[set$v_6250] = 1;
382 0378 4 mt_char[mt$v_density] = mt$k_gcr_6250;
383 0379 4 END
384 0380 3 ELSE
385 0381 4 BEGIN
386 0382 4 SIGNAL(set$_invquaval, 2, desc, %ASCID 'DENSITY');
387 0383 4 RETURN;
388 0384 4 END;
389 0385 3 END;
390 0386 2
391 0387 2
392 0388 2 /:[NO]LOGSOFT is only good for TU78's
393 0389 2
394 0390 2 IF (status = cli$present(%ASCID 'LOGSOFT')) NEQ cli$_absent
395 0391 2 THEN
396 0392 3 BEGIN
397 0393 3 IF .status NEQ cli$_negated
398 0394 3 THEN
399 0395 4 BEGIN
400 0396 4 flags[set$v_logsoft] = 1;
401 0397 4 mt_char[mt$v_logsoft] = 1;
402 0398 4 END
403 0399 3 ELSE
404 0400 4 BEGIN
405 0401 4 flags[set$v_nologsoft] = 1;
406 0402 4 mt_char[mt$v_logsoft] = 0;
407 0403 4 END;
408 0404 2 END;
409 0405 2
410 0406 2 IF .flags[set$v_dens]
411 0407 2 OR .flags[set$v_logsoft]
412 0408 2 OR .flags[set$v_nologsoft]
413 0409 2 THEN
414 0410 3 BEGIN
415 P 0411 3 status = $QIOW(CHAN = .channel,
416 P 0412 3 FUNC = IOS$ SETMODE,
417 P 0413 3 IOSB = iosb,
418 P 0414 3 P1 = info_block[dib$b_devclass],
419 0415 3 P2 = 8);
420 0416 3
421 0417 3
422 0418 3 IF .status
423 0419 3 THEN status = .iosb[0];
424 0420 3 IF NOT .status
425 0421 3 THEN SIGNAL(set$_writeerr, 1, desc, .status)
426 0422 3 ELSE IF .flags[set$v_log]
427 0423 4 THEN
428 0424 4 BEGIN
429 0425 4 IF .flags[set$v_dens]
430 0426 5 THEN SIGNAL(set$_devset2, 3, desc, %ASCID 'DENSITY',
431 0427 5 (IF .flags[set$v_1600]
432 0428 5 THEN %ASCID '1600'
433 0429 5 ELSE IF .flags[set$v_800]
434 0430 5 THEN %ASCID '800'
4 ELSE %ASCID '6250')));

```

```

435      0431 3      END;
436      0432 3      END;
437      0433 3      :
438      0434 3      :
439      0435 3      : The next set of modifications to perform are positional changes, rather
440      0436 3      : than changes to the characteristics.
441      0437 3      :
442      0438 3      IF cli$present(%ASCID 'END_OF_FILE')
443      0439 3      THEN
444      0440 3      BEGIN
445      0441 3      INCR index FROM 1 TO 2 DO
446      0442 4      BEGIN
447      0443 4      status = $QIOW(CHAN = .channel,
448      0444 4      FUNC = io$ writemark,
449      0445 4      IOSB = iosb);
450      0446 4      IF .status
451      0447 4      THEN status = .iosb[0];
452      0448 4      IF NOT .status
453      0449 4      THEN EXITLOOP;
454      0450 3      END;
455      0451 3      IF NOT .status
456      0452 3      THEN SIGNAL(set$ writeerr, 1, desc, .status)
457      0453 3      ELSE IF .flags[set$v_log]
458      0454 3      THEN SIGNAL(set$ eofset, 1, desc);
459      0455 2      END;
460      0456 2      IF cli$present(%ASCID 'SKIP.END_OF_TAPE')
461      0457 2      THEN
462      0458 2      BEGIN
463      0459 3      DO
464      0460 3      BEGIN
465      0461 4      status = $QIOW(CHAN = .channel,
466      0462 4      FUNC = io$ skipfile,
467      0463 4      IOSB = iosb,
468      0464 4      P1 = 32767);
469      0465 4      IF .status
470      0466 4      THEN status = .iosb[0];
471      0467 4      IF NOT .status
472      0468 4      THEN EXITLOOP;
473      0469 4      END
474      0470 4      UNTIL .$BBLOCK[iosb[2], mt$v_bot];
475      0471 3      IF NOT .status
476      0472 3      THEN SIGNAL(set$ writeerr, 1, desc, .status)
477      0473 3      ELSE IF .flags[set$v_log]
478      0474 3      THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'END_OF_TAPE');
479      0475 3      END;
480      0476 2      function = 0;
481      0477 2      IF cli$get_value(%ASCID 'SKIP.FILES', value_desc)
482      0478 2      THEN
483      0479 3      BEGIN
484      0480 3      function = io$ skipfile;
485      0481 3      flags[set$v files] = 1;
486      0482 3      IF NOT (status = lib$cvt_dtb(.value_desc[dsc$w_length],
487      0483 3      .value_desc[dsc$a_pointer],
488      0484 4      count))
489      0485 4      THEN
490      0486 4      THEN
491      0487 3

```

```

492 0488 4 BEGIN
493 0489 4 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
494 0490 4 RETURN;
495 0491 4 END;
496 0492 4 END
497 0493 2 ELSE IF cli$get_value(%ASCID 'SKIP.BLOCKS', value_desc)
498 0494 2 THEN
499 0495 2 BEGIN
500 0496 2 function = io$_skiprecord;
501 0497 2 flags[set$_record] = 1;
502 0498 4 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$_length],
503 0499 4 .value_desc[dsc$_pointer],
504 0500 4 count))
505 0501 3 THEN
506 0502 4 BEGIN
507 0503 4 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
508 0504 4 RETURN
509 0505 4 END;
510 0506 2 END
511 0507 2 ELSE IF cli$get_value(%ASCID 'SKIP.RECORDS', value_desc)
512 0508 2 THEN
513 0509 2 BEGIN
514 0510 2 function = io$_skiprecord;
515 0511 3 flags[set$_record] = 1;
516 0512 4 IF NOT (status = lib$cvt_dtb(.value_desc[dsc$_length],
517 0513 4 .value_desc[dsc$_pointer],
518 0514 4 count))
519 0515 3 THEN
520 0516 4 BEGIN
521 0517 4 SIGNAL(set$_invquaval, 2, value_desc, %ASCID 'SKIP');
522 0518 4 RETURN
523 0519 4 END
524 0520 2 END;
525 0521 2 IF .function NEQ 0
526 0522 2 THEN
527 0523 2 BEGIN
528 0524 2 status = $QIOW(CHAN = .channel,
529 P 0525 2 .FUNC = .function,
530 P 0526 2 .IOSB = iosb,
531 P 0527 2 P1 = .count);
532 0528 2
533 0529 2 IF .status
534 0530 2 THEN status = .iosb[0];
535 0531 2 IF NOT .status
536 0532 2 THEN
537 0533 2 BEGIN
538 0534 2 SIGNAL(set$_writeerr, 1, desc, .status);
539 0535 2 RETURN;
540 0536 2 END;
541 0537 2
542 0538 2 ..... If the skip function was negative, then the tape must be re-positioned
543 0539 2 forward, over the end mark.
544 0540 2
545 0541 2 IF .count LSS 0
546 0542 2 THEN
547 0543 2 BEGIN
548 P 0544 2 status = $QIOW(CHAN = .channel,

```



```

549 P 0545 4 FUNC = .function,
550 P 0546 4 IOSB = iosb,
551 0547 4 P1 = 1);
552 0548 4 IF .status
553 0549 4 THEN status = .iosb[0];
554 0550 4 IF NOT .status
555 0551 4 THEN
556 0552 4 BEGIN
557 0553 4 SIGNAL(set$_writeerr, 1, desc, .status);
558 0554 4 RETURN;
559 0555 4 END;
560 0556 4 END;
561 0557 4
562 0558 4
563 0559 4 If /LOG, then tell what was done.
564 0560 4
565 0561 4
566 0562 4 IF .flags[set$_log]
567 0563 4 THEN SIGNAL(set$_devset2, 3, desc,
568 0564 4 (IF .flags[set$_files]
569 0565 4 THEN %ASCID 'SKIP_FILES'
570 0566 4 ELSE %ASCID 'SKIP_RECORDS'),
571 0567 4 value_desc);
572 0568 4 END;
573 0569 4
574 0570 4
575 0571 4 Lastly, check for /REWIND or /UNLOAD.
576 0572 4
577 0573 4 IF cli$present(%ASCID 'REWIND')
578 0574 4 THEN
579 0575 4 BEGIN
580 0576 4 status = $QIOW(CHAN = .channel,
581 0577 4 IOSB = iosb,
582 0578 4 FUNC = io$_rewind);
583 0579 4
584 0580 4 IF .status
585 0581 4 THEN status = .iosb[0];
586 0582 4 IF NOT .status
587 0583 4 THEN
588 0584 4 BEGIN
589 0585 4 SIGNAL(set$_writeerr, 1, desc, .status);
590 0586 4 END
591 0587 4 ELSE IF .flags[set$_log]
592 0588 4 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'REWIND');
593 0589 4 END;
594 0590 4 IF cli$present(%ASCID 'UNLOAD')
595 0591 4 THEN
596 0592 4 BEGIN
597 0593 4 status = $QIOW(CHAN = .channel,
598 0594 4 IOSB = iosb,
599 0595 4 FUNC = io$_rewindoff);
600 0596 4
601 0597 4 IF .status
602 0598 4 THEN status = .iosb[0];
603 0599 4 IF NOT .status
604 0600 4 THEN SIGNAL(set$_writeerr, 1, desc, .status)
605 0601 4 ELSE IF .flags[set$_log]
606 0602 4 THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'UNLOAD');

```

SETDEVS
V04-000

G 14
16-Sep-1984 00:47:57
14-Sep-1984 12:09:05

VAX-11 Bliss-32 V4.0-742
[CLIUTL.SRC]SETDEVS.B32;1

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(5)

: 606
: 607
: 608
: 609

0602 2 END;
0603 2
0604 2 RETURN;
0605 1 END;

.PSECT SPLITS,NOWRT,NOEXE,2

00	00	45	43	49	56	45	44	0004C	P.AAN:	.ASCII	\DEVICE\<0><0>							
						010E0006		00054	P.AAM:	.LONG	17694726							
						00000000		00058		.ADDRESS	P.AAN							
				00	47	4F	4C	0005C	P.AAP:	.ASCII	\LOG\<0>							
						010E0003		00060	P.AAO:	.LONG	17694723							
						00000000		00064		.ADDRESS	P.AAP							
00	59	54	49	53	4E	45	44	00068	P.AAR:	.ASCII	\DENSITY\<0>							
						010E0007		00070	P.AAQ:	.LONG	17694727							
						00000000		00074		.ADDRESS	P.AAR							
00	59	54	49	53	4E	45	44	00078	P.AAT:	.ASCII	\DENSITY\<0>							
						010E0007		00080	P.AAS:	.LONG	17694727							
						00000000		00084		.ADDRESS	P.AAT							
00	59	54	49	53	4E	45	44	00088	P.AAV:	.ASCII	\DENSITY\<0>							
						010E0007		00090	P.AAU:	.LONG	17694727							
						00000000		00094		.ADDRESS	P.AAV							
00	54	46	4F	53	47	4F	4C	00098	P.AAX:	.ASCII	\LOGSOFT\<0>							
						010E0007		000A0	P.AAW:	.LONG	17694727							
						00000000		000A4		.ADDRESS	P.AAX							
00	59	54	49	53	4E	45	44	000A8	P.AAZ:	.ASCII	\DENSITY\<0>							
						010E0007		000B0	P.AAY:	.LONG	17694727							
						00000000		000B4		.ADDRESS	P.AAZ							
					30	30	36	31	000B8	P.ABB:	.ASCII	\1600\						
						010E0004		000BC	P.ABA:	.LONG	17694724							
						00000000		000C0		.ADDRESS	P.ABB							
					00	30	30	38	000C4	P.ABD:	.ASCII	\800\<0>						
						010E0003		000C8	P.ABC:	.LONG	17694723							
						00000000		000CC		.ADDRESS	P.ABD							
					30	35	32	36	000D0	P.ABF:	.ASCII	\6250\						
						010E0004		000D4	P.ABE:	.LONG	17694724							
						00000000		000D8		.ADDRESS	P.ABF							
	00	45	4C	49	46	5F	46	4F	5F	44	4E	45	000DC	P.ABH:	.ASCII	\END_OF_FILE\<0>		
						010E000B		000E8	P.ABG:	.LONG	17694731							
						00000000		000EC		.ADDRESS	P.ABH							
50	41	54	5F	46	4F	5F	44	4E	45	2E	50	49	4B	53	000F0	P.ABJ:	.ASCII	\SKIP.END_OF_TAPE\<0>
														45	000FF			
														010E0010	00100	P.ABI:	.LONG	17694736
														00000000	00104		.ADDRESS	P.ABJ
	00	45	50	41	54	5F	46	4F	5F	44	4E	45	00108	P.ABL:	.ASCII	\END_OF_TAPE\<0>		
													010E000B	00114	P.ABK:	.LONG	17694731	
													00000000	00118		.ADDRESS	P.ABL	
	00	00	53	45	4C	49	46	2E	50	49	4B	53	0011C	P.ABN:	.ASCII	\SKIP.FILES\<0><0>		
													010E000A	00128	P.ABM:	.LONG	17694730	
													00000000	0012C		.ADDRESS	P.ABN	
										50	49	4B	53	00130	P.ABP:	.ASCII	\SKIP\<0>	
													010E0004	00134	P.ABO:	.LONG	17694724	
													00000000	00138		.ADDRESS	P.ABP	
	00	53	4B	43	4F	4C	42	2E	50	49	4B	53	0013C	P.ABR:	.ASCII	\SKIP.BLOCKS\<0>		
													010E000B	00148	P.ABQ:	.LONG	17694731	

											00000000'	0014C			.ADDRESS P.ABR				
								50	49	4B	53	00150	P.ABT:		.ASCII \SKIP\				
											010E0004	00154	P.ABS:		.LONG 17694724				
											00000000'	00158			.ADDRESS P.ABT				
53	44	52	4F	43	45	52	2E	50	49	4B	53	0015C	P.ABV:		.ASCII \SKIP.RECORDS\				
											010E000C	00168	P.ABU:		.LONG 17694732				
											00000000'	0016C			.ADDRESS P.ABV				
								50	49	4B	53	00170	P.ABX:		.ASCII \SKIP\				
											010E0004	00174	P.ABW:		.LONG 17694724				
											00000000'	00178			.ADDRESS P.ABX				
00	00	53	45	4C	49	46	5F	50	49	4B	53	0017C	P.ABZ:		.ASCII \SKIP.FILES\<0><0>				
											010E000A	00188	P.ABY:		.LONG 17694730				
											00000000'	0018C			.ADDRESS P.ABZ				
53	44	52	4F	43	45	52	5F	50	49	4B	53	00190	P.ACB:		.ASCII \SKIP.RECORDS\				
											010E000C	0019C	P.ACA:		.LONG 17694732				
											00000000'	001A0			.ADDRESS P.ACB				
								00	00	44	4E	49	57	45	52	001A4	P.ACD:		.ASCII \REWIND\<0><0>
											010E0006	001AC	P.ACC:		.LONG 17694726				
											00000000'	001B0			.ADDRESS P.ACD				
								00	00	44	4E	49	57	45	52	001B4	P.ACF:		.ASCII \REWIND\<0><0>
											010E0006	001BC	P.ACE:		.LONG 17694726				
											00000000'	001C0			.ADDRESS P.ACF				
								00	00	44	41	4F	4C	4E	55	001C4	P.ACH:		.ASCII \UNLOAD\<0><0>
											010E0006	001CC	P.ACG:		.LONG 17694726				
											00000000'	001D0			.ADDRESS P.ACH				
								00	00	44	41	4F	4C	4E	55	001D4	P.ACJ:		.ASCII \UNLOAD\<0><0>
											010E0006	001DC	P.ACI:		.LONG 17694726				
											00000000'	001E0			.ADDRESS P.ACJ				

.PSECT \$CODE\$,NOWRT,2

OFFC 00000

.ENTRY	SET\$MAGTAPE, Save R2,R3,R4,R5,R6,R7,R8,R9,-	: 0260
	R10,R11	
MOVAB	LIB\$CVT DTB, R11	
MOVL	#SET\$ WRITEERR, R10	
MOVAB	CLISGET_VALUE, R9	
MOVAB	CLISPRESENT, R8	
MOVAB	SYSSQIOW, R7	
MOVAB	LIB\$SIGNAL, R6	
MOVAB	P.AAM, R5	
SUBL2	#60, SP	
CLRL	FLAGS	: 0261
MOVL	#34471936, DESC	: 0295
CLRL	DESC+4	
MOVL	#34471936, VALUE_DESC	: 0296
CLRL	VALUE_DESC+4	
PUSHAB	DESC	: 0297
PUSHL	R5	
CALLS	#2, CLISGET_VALUE	
CLRQ	-(SP)	: 0304
PUSHAB	CHANNEL	
PUSHAB	DESC	
CALLS	#4, SYSSASSIGN	
MOVL	R0, STATUS	
BLBC	STATUS, 1\$	

5B	00000000G	00	9E	00002	
5A	00000000G	8F	D0	00009	
59	00000000G	00	9E	00010	
58	00000000G	00	9E	00017	
57	00000000G	00	9E	0001E	
56	00000000G	00	9E	00025	
55	00000000'	EF	9E	0002C	
5E		3C	C2	00033	
		08	AE	D4	0C036
34	AE 020E0000	8F	D0	00039	
		38	AE	D4	00041
2C	AE 020E0000	8F	D0	00044	
		30	AE	D4	0004C
		34	AE	9F	0004F
			55	DD	00052
69			02	FB	00054
			7E	7C	00057
		08	AE	9F	00059
		40	AE	9F	0005C
00000000G	00	04	FB	0005F	
	52	50	D0	00066	
	20	52	E9	00069	

	24	AE		OC	DO	0006C	MOVL	#12, INFO_DESC	0313
	28	AE	18	AE	9E	00070	MOVAB	INFO_BLOCK, INFO_DESC+4	0314
			24	AE	9F	00075	PUSHAB	INFO_DESC	0316
				7E	7C	00078	CLRQ	-(SP)	
				7E	D4	0007A	CLRL	-(SP)	
	54		10	AE	3C	0007C	MOVZWL	CHANNEL, R4	
				54	DD	00080	PUSHL	R4	
	00000000G	00		05	FB	00082	CALLS	#5, SYSSGETCHN	
		52		50	DO	00089	MOVL	R0, STATUS	
		03		52	E8	0008C	1\$:	BLBS	STATUS, 2\$
				038B	31	0008F	BRW	44\$	
		02	1C	AE	91	00092	2\$:	CMPB	INFO_BLOCK+4, #2
				08	13	00096	BEQL	3\$	0323
			00000000G	8F	DD	00098	PUSHL	#CLIS_IVDEVTYPE	0326
				15	11	0009E	BRB	5\$	
06	1A	AE		03	E0	000A0	3\$:	BBS	#3, INFO_BLOCK+2, 4\$
		7E	7C	8F	9A	000A5	MOVZBL	#124, -(SP)	0330
				0A	11	000A9	BRB	5\$	0333
		10	1B	AE	E8	000AB	4\$:	BLBS	INFO_BLOCK+3, 6\$
			00000000G	8F	DD	000AF	PUSHL	#CLIS_DEVNOTFOR	0336
				38	AE	9F	000B5	5\$:	PUSHAB
				01	DD	000B8	PUSHL	#1	0339
				5A	DD	000BA	PUSHL	R10	
				0376	31	000BC	BRW	46\$	
			0C	A5	9F	000BF	6\$:	PUSHAB	P.AAO
08	AE	01	68	01	FB	000C2	CALLS	#1, CLISPRESENT	0346
			00	50	FO	000C5	INSV	R0, #0, #1, FLAGS	
				2C	AE	9F	000CB	PUSHAB	VALUE_DESC
				1C	A5	9F	000CE	PUSHAB	P.AAQ
08	AE	01	69	02	FB	000D1	CALLS	#2, CLISGET_VALUE	
			01	50	FO	000D4	INSV	R0, #1, #1, -FLAGS	
			64	50	E9	000DA	BLBC	R0, 11\$	
				04	AE	9F	000DD	PUSHAB	DENSITY
				34	AE	DD	000E0	PUSHL	VALUE_DESC+4
			7E	AE	3C	000E3	MOVZWL	VALUE_DESC, -(SP)	0354
			6B	03	FB	000E7	CALLS	#3, LIBSCVT_DTB	0355
			52	50	DO	000EA	MOVL	R0, STATUS	0354
			06	52	E8	000ED	BLBS	STATUS, 7\$	
				2C	A5	9F	000F0	PUSHAB	P.AAS
				0228	31	000F3	BRW	32\$	0359
	00000640	8F	04	AE	D1	000F6	7\$:	CMPL	DENSITY, #1600
				0C	12	000FE	BNEQ	8\$	0362
21	AE	05	08	AE	04	88	00100	BISB2	#4, FLAGS
			00	04	FO	00104	INSV	#4, #0, #5, MT_CHAR+1	0365
				35	11	0010A	BRB	11\$	0366
	00000320	8F	04	AE	D1	0010C	8\$:	CMPL	DENSITY, #800
				0C	12	00114	BNEQ	9\$	0362
21	AE	05	08	AE	08	88	00116	BISB2	#8, FLAGS
			00	03	FO	0011A	INSV	#3, #0, #5, MT_CHAR+1	0371
				1F	11	00120	BRB	11\$	0372
	0000186A	8F	04	AE	D1	00122	9\$:	CMPL	DENSITY, #6250
				0C	12	0012A	BNEQ	10\$	0368
21	AE	05	08	AE	10	88	0012C	BISB2	#16, FLAGS
				05	FO	00130	INSV	#5, #0, #5, MT_CHAR+1	0374
				09	11	00136	BRB	11\$	0377
				3C	A5	9F	00138	10\$:	PUSHAB
				38	AE	9F	0013B	PUSHAB	DESC

			4C	01E0	31	0013E		BRW	33\$			
		68		A5	9F	00141	11\$:	PUSHAB	P.AAW			0390
		52		01	FB	00144		CALLS	#1, CLIS\$PRESENT			
	00000000G	8F		50	D0	00147		MOVL	R0, STATUS			
	00000000G	8F		52	D1	0014A		CMPL	STATUS, #CLIS_\$ABSENT			
				1E	13	00151		BEQL	13\$			
				52	D1	00153		CMPL	STATUS, #CLIS_\$NEGATED			0393
				0B	13	0015A		BEQL	12\$			
	08	AE		20	88	0015C		BISB2	#32, FLAGS			0396
	21	AE	40	8F	88	00160		BISB2	#64, MT_CHAR+1			0397
				0A	11	00165		BRB	13\$			0393
	08	AE	40	8F	88	00167	12\$:	BISB2	#64, FLAGS			0401
	21	AE	40	8F	8A	0016C		BICB2	#64, MT_CHAR+1			0402
0A	08	AE		01	E0	00171	13\$:	BBS	#1, FLAGS, 14\$			0406
05	08	AE		05	E0	00176		BBS	#5, FLAGS, 14\$			0407
69	08	AE		06	E1	0017B		BBC	#6, FLAGS, 20\$			0408
				7E	7C	00180	14\$:	CLRQ	-(SP)			0415
				7E	7C	00182		CLRQ	-(SP)			
				08	DD	00184		PUSHL	#8			
			30	AE	9F	00186		PUSHAB	INFO_BLOCK+4			
				7E	7C	00189		CLRQ	-(SP)			
			30	AE	9F	0018B		PUSHAB	IOSB			
				23	DD	0018E		PUSHL	#35			
				54	DD	00190		PUSHL	R4			
				7E	D4	00192		CLRL	-(SP)			
		67		0C	FB	00194		CALLS	#12, SYSS\$QIOW			
		52		50	D0	00197		MOVL	R0, STATUS			
		07		52	E9	0019A		BLBC	STATUS, 15\$			0417
		52	10	AE	3C	0019D		MOVZWL	IOSB, STATUS			0418
		0E		52	E8	001A1		BLBS	STATUS, 16\$			0419
				52	DD	001A4	15\$:	PUSHL	STATUS			0420
			38	AE	9F	001A6		PUSHAB	DESC			
				01	DD	001A9		PUSHL	#1			
				5A	DD	001AB		PUSHL	R10			
		66		04	FB	001AD		CALLS	#4, LIB\$\$SIGNAL			
				37	11	001B0		BRB	20\$			
		33	08	AE	E9	001B2	16\$:	BLBC	FLAGS, 20\$			0421
2E	08	AE		01	E1	001B6		BBC	#1, FLAGS, 20\$			0424
06	08	AE		02	E1	001BB		BBC	#2, FLAGS, 17\$			0426
		50	68	A5	9E	001C0		MOVAB	P.ABA, R0			0427
				10	11	001C4		BRB	19\$			
	06	08	AE	03	E1	001C6	17\$:	BBC	#3, FLAGS, 18\$			0428
		50	74	A5	9E	001CB		MOVAB	P.ABC, R0			0429
				05	11	001CF		BRB	19\$			
		50	0080	C5	9E	001D1	18\$:	MOVAB	P.ABE, R0			0430
				50	DD	001D6	19\$:	PUSHL	R0			0428
			5C	A5	9F	001D8		PUSHAB	P.AAY			0425
			3C	AE	9F	001DB		PUSHAB	DESC			
				03	DD	001DE		PUSHL	#3			
		00000000G		8F	DD	001E0		PUSHL	#SETS_DEVSET2			
		66		05	FB	001E6		CALLS	#5, LIB\$\$SIGNAL			
			0094	C5	9F	001E9	20\$:	PUSHAB	P.ABG			0438
		68		01	FB	001ED		CALLS	#1, CLIS\$PRESENT			
		4B		50	E9	001F0		BLBC	R0, 24\$			
		53		01	D0	001F3		MOVL	#1, INDEX			0441
				7E	7C	001F6	21\$:	CLRQ	-(SP)			0445
				7E	7C	001F8		CLRQ	-(SP)			

DB

		7E	7C	001FA	CLRQ	-(SP)	
		7E	7C	001FC	CLRQ	-(SP)	
	30	AE	9F	001FE	PUSHAB	IOSB	
		1C	DD	00201	PUSHL	#28	
		54	DD	00203	PUSHL	R4	
		7E	D4	00205	CLRL	-(SP)	
67		0C	FB	00207	CALLS	#12, SYSSQIOW	
52		50	D0	0020A	MOVL	R0, STATUS	
0E		52	E9	0020D	BLBC	STATUS, 22\$	0446
52	10	AE	3C	00210	MOVZWL	IOSB, STATUS	0447
07		52	E9	00214	BLBC	STATUS, 22\$	0448
53		02	F3	00217	AOBLEQ	#2, INDEX, 21\$	0441
0E		52	E8	0021B	BLBS	STATUS, 23\$	0451
		52	DD	0021E	PUSHL	STATUS	0452
	38	AE	9F	00220	PUSHAB	DESC	
		01	DD	00223	PUSHL	#1	
		5A	DD	00225	PUSHL	R10	
66		04	FB	00227	CALLS	#4, LIBSSIGNAL	
		12	11	0022A	BRB	24\$	
0E	08	AE	E9	0022C	BLBC	FLAGS, 24\$	0453
	34	AE	9F	00230	PUSHAB	DESC	0454
		01	DD	00233	PUSHL	#1	
66	00000000G	8F	DD	00235	PUSHL	#SETS EOFSET	
		03	FB	0023B	CALLS	#3, LIBSSIGNAL	
	00AC	C5	9F	0023E	PUSHAB	P.ABI	0457
68		01	FB	00242	CALLS	#1, CLISPRESNT	
4E		50	E9	00245	BLBC	R0, 29\$	
		7E	7C	00248	CLRQ	-(SP)	0465
		7E	7C	0024A	CLRQ	-(SP)	
		7E	D4	0024C	CLRL	-(SP)	
7E	7FFF	8F	3C	0024E	MOVZWL	#32767, -(SP)	
		7E	7C	00253	CLRQ	-(SP)	
	30	AE	9F	00255	PUSHAB	IOSB	
		25	DD	00258	PUSHL	#37	
		54	DD	0025A	PUSHL	R4	
		7E	D4	0025C	CLRL	-(SP)	
67		0C	FB	0025E	CALLS	#12, SYSSQIOW	
52		50	D0	00261	MOVL	R0, STATUS	
0E		52	E9	00264	BLBC	STATUS, 26\$	0466
52	10	AE	3C	00267	MOVZWL	IOSB, STATUS	0467
07		52	E9	0026B	BLBC	STATUS, 26\$	0468
D6	16	AE	E9	0026E	BLBC	IOSB+6, 25\$	0471
0B		52	E8	00272	BLBS	STATUS, 27\$	0472
		52	DD	00275	PUSHL	STATUS	0473
	38	AE	9F	00277	PUSHAB	DESC	
		01	DD	0027A	PUSHL	#1	
		5A	DD	0027C	PUSHL	R10	
		13	11	0027E	BRB	28\$	
12	08	AE	E9	00280	BLBC	FLAGS, 29\$	0474
	00C0	C5	9F	00284	PUSHAB	P.ABK	0475
	38	AE	9F	00288	PUSHAB	DESC	
		02	DD	0028B	PUSHL	#2	
66	00000000G	8F	DD	0028D	PUSHL	#SETS DEVSET1	
		04	FB	00293	CALLS	#4, LIBSSIGNAL	
		53	D4	00296	CLRL	FUNCTION	0478
	2C	AE	9F	00298	PUSHAB	VALUE_DESC	0479
	00D4	C5	9F	0029B	PUSHAB	P.ABM	

69		02	FB	0029F	CALLS	#2, CLISGET_VALUE	
21		50	E9	002A2	BLBC	R0, 30\$	
53		25	DO	002A5	MOVL	#37, FUNCTION	0482
08	AE	80	8F	002A8	BISB2	#128, FLAGS	0483
		OC	AE	9F	PUSHAB	COUNT	0484
		34	AE	DD	PUSHL	VALUE_DESC+4	0485
7E		34	AE	3C	MOVZWL	VALUE_DESC, -(SP)	0484
6B		03	FB	002B7	CALLS	#3, LIB\$CVT_DTB	
52		50	DO	002BA	MOVL	R0, STATUS	
6C		52	E8	002BD	BLBS	STATUS, 34\$	
	00E0	C5	9F	002C0	PUSHAB	P.ABO	0489
		58	11	002C4	BRB	32\$	
	2C	AE	9F	002C6	PUSHAB	VALUE_DESC	0493
	00F4	C5	9F	002C9	PUSHAB	P.ABQ	
69		02	FB	002CD	CALLS	#2, CLISGET_VALUE	
20		50	E9	002D0	BLBC	R0, 31\$	
53		26	DO	002D3	MOVL	#38, FUNCTION	0496
09	AE	01	88	002D6	BISB2	#1, FLAGS+1	0497
		OC	AE	9F	PUSHAB	COUNT	0498
		34	AE	DD	PUSHL	VALUE_DESC+4	0499
7E		34	AE	3C	MOVZWL	VALUE_DESC, -(SP)	0498
6B		03	FB	002E4	CALLS	#3, LIB\$CVT_DTB	
52		50	DO	002E7	MOVL	R0, STATUS	
3F		52	E8	002EA	BLBS	STATUS, 34\$	
	0100	C5	9F	002ED	PUSHAB	P.ABS	0503
		2B	11	002F1	BRB	32\$	
	2C	AE	9F	002F3	PUSHAB	VALUE_DESC	0507
	0114	C5	9F	002F6	PUSHAB	P.ABU	
69		02	FB	002FA	CALLS	#2, CLISGET_VALUE	
2C		50	E9	002FD	BLBC	R0, 34\$	
53		26	DO	00300	MOVL	#38, FUNCTION	0510
09	AE	01	88	00303	BISB2	#1, FLAGS+1	0511
		OC	AE	9F	PUSHAB	COUNT	0512
		34	AE	DD	PUSHL	VALUE_DESC+4	0513
7E		34	AE	3C	MOVZWL	VALUE_DESC, -(SP)	0512
6B		03	FB	00311	CALLS	#3, LIB\$CVT_DTB	
52		50	DO	00314	MOVL	R0, STATUS	
12		52	E8	00317	BLBS	STATUS, 34\$	
	0120	C5	9F	0031A	PUSHAB	P.ABW	0517
	30	AE	9F	0031E	PUSHAB	VALUE_DESC	
		02	DD	00321	PUSHL	#2	
	0077132A	8F	DD	00323	PUSHL	#7803690	
		0109	31	00329	BRW	46\$	
		53	D5	0032C	TSTL	FUNCTION	0522
		76	13	0032E	BEQL	39\$	
		7E	7C	00330	CLRQ	-(SP)	0528
		7E	7C	00332	CLRQ	-(SP)	
		7E	D4	00334	CLRL	-(SP)	
	20	AE	DD	00336	PUSHL	COUNT	
		7E	7C	00339	CLRQ	-(SP)	
	30	AE	9F	0033B	PUSHAB	IOSB	
		53	DD	0033E	PUSHL	FUNCTION	
		54	DD	00340	PUSHL	R4	
		7E	D4	00342	CLRL	-(SP)	
67		OC	FB	00344	CALLS	#12, SYSSQIOW	
52		50	DO	00347	MOVL	R0, STATUS	
2B		52	E9	0034A	BLBC	STATUS, 35\$	0529

52	10	AE	3C	0034D	MOVZWL	IOSB, STATUS	0530
24		52	E9	00351	BLBC	STATUS, 35\$	0531
	0C	AE	D5	00354	TSTL	COUNT	0541
		25	18	00357	BGEQ	36\$	
		7E	7C	00359	CLRQ	-(SP)	0547
		7E	7C	0035B	CLRQ	-(SP)	
7E		01	7D	0035D	MOVQ	#1, -(SP)	
		7E	7C	00360	CLRQ	-(SP)	
	30	AE	9F	00362	PUSHAB	IOSB	
		53	DD	00365	PUSHL	FUNCTION	
		54	DD	00367	PUSHL	R4	
		7E	D4	00369	CLRL	-(SP)	
67		0C	FB	0036B	CALLS	#12, SYSSQIOW	
52		50	DD	0036E	MOVL	R0, STATUS	
04		52	E9	00371	BLBC	STATUS, 35\$	0548
52	10	AE	3C	00374	MOVZWL	IOSB, STATUS	0549
03		52	E8	00378	BLBS	STATUS, 36\$	0550
		009F	31	0037B	BRW	44\$	
24	08	AE	E9	0037E	BLBC	FLAGS, 39\$	0562
	2C	AE	9F	00382	PUSHAB	VALUE_DESC	0563
	0C	AE	95	00385	TSTB	FLAGS	0564
		07	18	00388	BGEQ	37\$	
50	0134	C5	9E	0038A	MOVAB	P.ABY, R0	0565
		05	11	0038F	BRB	38\$	
50	0148	C5	9E	00391	MOVAB	P.ACA, R0	0566
		50	DD	00396	PUSHL	R0	
	3C	AE	9F	00398	PUSHAB	DESC	0563
		03	DD	0039B	PUSHL	#3	
	00000000G	8F	DD	0039D	PUSHL	#SETS, DEVSET2	
66		05	FB	003A3	CALLS	#5, LIB\$SIGNAL	
	0158	C5	9F	003A6	PUSHAB	P.ACC	0573
68		01	FB	003AA	CALLS	#1, CLISPRESNT	
42		50	E9	003AD	BLBC	R0, 43\$	0578
		7E	7C	003B0	CLRQ	-(SP)	
		7E	7C	003B2	CLRQ	-(SP)	
		7E	7C	003B4	CLRQ	-(SP)	
		7E	7C	003B6	CLRQ	-(SP)	
	30	AE	9F	003B8	PUSHAB	IOSB	
		24	DD	003BB	PUSHL	#36	
		54	DD	003BD	PUSHL	R4	
		7E	D4	003BF	CLRL	-(SP)	
67		0C	FB	003C1	CALLS	#12, SYSSQIOW	
52		50	DD	003C4	MOVL	R0, STATUS	
07		52	E9	003C7	BLBC	STATUS, 40\$	0579
52	10	AE	3C	003CA	MOVZWL	IOSB, STATUS	0580
08		52	E8	003CE	BLBS	STATUS, 41\$	0581
		52	DD	003D1	PUSHL	STATUS	0584
	38	AE	9F	003D3	PUSHAB	DESC	
		01	DD	003D6	PUSHL	#1	
		5A	DD	003D8	PUSHL	R10	
		13	11	003DA	BRB	42\$	
12	08	AE	E9	003DC	BLBC	FLAGS, 43\$	0586
	0168	C5	9F	003E0	PUSHAB	P.ACE	0587
	38	AE	9F	003E4	PUSHAB	DESC	
		02	DD	003E7	PUSHL	#2	
	00000000G	8F	DD	003E9	PUSHL	#SETS, DEVSET1	
66		04	FB	003EF	CALLS	#4, LIB\$SIGNAL	

SETDEVS
V04-000

N 14
16-Sep-1984 00:47:57 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:09:05 [CLIUTL.SRC]SETDEVS.B32:1

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68	0178	C5	9F	003F2	43\$:	PUSHAB	P.ACG		0590
3C		01	FB	003F6		CALLS	#1, CLIS\$PRESENT		
		50	E9	003F9		BLBC	RO, 47\$		
		7E	7C	003FC		CLRQ	-(SP)		0595
		7E	7C	003FE		CLRQ	-(SP)		
		7E	7C	00400		CLRQ	-(SP)		
		7E	7C	00402		CLRQ	-(SP)		
	30	AE	9F	00404		PUSHAB	IOSB		
		22	DD	00407		PUSHL	#34		
		54	DD	00409		PUSHL	R4		
		7E	D4	0040B		CLRL	-(SP)		
67		0C	FB	0040D		CALLS	#12, SYSS\$QIOW		
52		50	DO	00410		MOVL	RO, STATUS		
07		52	E9	00413		BLBC	STATUS, 44\$		0596
52	10	AE	3C	00416		MOVZWL	IOSB, STATUS		0597
05		52	E8	0041A		BLBS	STATUS, 45\$		0598
		52	DD	0041D	44\$:	PUSHL	STATUS		0599
		FC93	31	0041F		BRW	5\$		
12	08	AE	E9	00422	45\$:	BLBC	FLAGS, 47\$		0600
	0188	C5	9F	00426		PUSHAB	P.ACI		0601
	38	AE	9F	0042A		PUSHAB	DESC		
		02	DD	0042D		PUSHL	#2		
	00000000G	8F	DD	0042F		PUSHL	#SETS\$ DEVSET1		
66		04	FB	00435	46\$:	CALLS	#4, LIB\$SIGNAL		
		04	00	00438	47\$:	RET			0605

: Routine Size: 1081 bytes, Routine Base: \$CODE\$ + 0118


```

: 668      0663      BEGIN
: 669      0664      SIGNAL(set$_writeerr, 1, desc, .status);      ! If a problem, signal it.
: 670      0665      RETURN;
: 671      0666      END;
: 672      0667
: 673      0668      IF .info_block[dib$b_devclass] NEQU dc$_lp      ! If not a printer,
: 674      0669      THEN                                          ! signal that it's not.
: 675      0670      BEGIN
: 676      0671      SIGNAL(set$_writeerr, 1, desc,
: 677      0672      cli$_ivdevtype);
: 678      0673      END;
: 679      0674
: 680      0675      !
: 681      0676      ! Determine what characteristics to set, and whether to log it.
: 682      0677      !
: 683      0678      flags[set$_v_log] = cli$present(%ASCII 'LOG');
: 684      0679      !
: 685      0680      ! Real characteristics
: 686      0681      !
: 687      0682      !
: 688      0683      IF (status = cli$present(%ASCII 'FF')) NEQ cli$_absent
: 689      0684      THEN
: 690      0685      BEGIN
: 691      0686      IF .status NEQ cli$_negated
: 692      0687      THEN flags[set$_v_ff] = lp_char[lp$_v_mechform] = 1
: 693      0688      ELSE
: 694      0689      BEGIN
: 695      0690      flags[set$_v_noff] = 1;
: 696      0691      lp_char[lp$_v_mechform] = 0;
: 697      0692      END;
: 698      0693      END;
: 699      0694
: 700      0695      IF (status = cli$present(%ASCII 'CR')) NEQ cli$_absent
: 701      0696      THEN
: 702      0697      BEGIN
: 703      0698      IF .status NEQ cli$_negated
: 704      0699      THEN flags[set$_v_cr] = lp_char[lp$_v_cr] = 1
: 705      0700      ELSE
: 706      0701      BEGIN
: 707      0702      flags[set$_v_nocr] = 1;
: 708      0703      lp_char[lp$_v_cr] = 0;
: 709      0704      END;
: 710      0705      END;
: 711      0706
: 712      0707      IF (status = cli$present(%ASCII 'PASSALL')) NEQ cli$_absent
: 713      0708      THEN
: 714      0709      BEGIN
: 715      0710      IF .status NEQ cli$_negated
: 716      0711      THEN flags[set$_v_pass] = lp_char[lp$_v_passall] = 1
: 717      0712      ELSE
: 718      0713      BEGIN
: 719      0714      flags[set$_v_nopass] = 1;
: 720      0715      lp_char[lp$_v_passall] = 0;
: 721      0716      END;
: 722      0717      END;
: 723      0718
: 724      0719      IF (status = cli$present(%ASCII 'PRINTALL')) NEQ cli$_absent

```

```

725 0720 2 THEN
726 0721 2 BEGIN
727 0722 2 IF .status NEQ cli$_negated
728 0723 2 THEN flags[set$v_print] = lp_char[lp$v_printall] = 1
729 0724 2 ELSE
730 0725 2 BEGIN
731 0726 2 flags[set$v_noprint] = 1;
732 0727 2 lp_char[lp$v_printall] = 0;
733 0728 2 END;
734 0729 2 END;
735 0730 2
736 0731 2 IF (status = cli$present(%ASCID 'WRAP')) NEQ cli$_absent
737 0732 2 THEN
738 0733 2 BEGIN
739 0734 2 IF .status NEQ cli$_negated
740 0735 2 THEN flags[set$v_wrap] = lp_char[lp$v_wrap] = 1
741 0736 2 ELSE
742 0737 2 BEGIN
743 0738 2 flags[set$v_nowrap] = 1;
744 0739 2 lp_char[lp$v_wrap] = 0;
745 0740 2 END;
746 0741 2 END;
747 0742 2
748 0743 2 IF (status = cli$present(%ASCID 'UPPERCASE')) NEQ cli$_absent
749 0744 2 THEN
750 0745 2 BEGIN
751 0746 2 IF .status EQL cli$_negated
752 0747 2 THEN flags[set$v_lower] = lp_char[lp$v_lower] = 1
753 0748 2 ELSE
754 0749 2 BEGIN
755 0750 2 flags[set$v_upper] = 1;
756 0751 2 lp_char[lp$v_lower] = 0;
757 0752 2 END;
758 0753 2 END;
759 0754 2
760 0755 2 IF (status = cli$present(%ASCID 'LOWERCASE')) NEQ cli$_absent
761 0756 2 THEN
762 0757 2 BEGIN
763 0758 2 IF .status NEQ cli$_negated
764 0759 2 THEN flags[set$v_lower] = lp_char[lp$v_lower] = 1
765 0760 2 ELSE
766 0761 2 BEGIN
767 0762 2 flags[set$v_upper] = 1;
768 0763 2 lp_char[lp$v_lower] = 0;
769 0764 2 END;
770 0765 2 END;
771 0766 2
772 0767 2
773 0768 2 IF (status = cli$present(%ASCID 'FALLBACK')) NEQ cli$_absent
774 0769 2 THEN
775 0770 2 BEGIN
776 0771 2 IF .status NEQ cli$_negated
777 0772 2 THEN flags[set$v_fa[llback] = lp_char[lp$v_fallback] = 1
778 0773 2 ELSE
779 0774 2 BEGIN
780 0775 2 flags[set$v_nofallback] = 1;
781 0776 2 lp_char[lp$v_fallback] = 0;

```

```
0777      END;
0778      END;
0779
0780      IF (status = cli$present(%ASCID 'TRUNCATE')) NEQ cli$_absent
0781      THEN
0782      BEGIN
0783      IF .status NEQ cli$_negated
0784      THEN flags[set$v_truncate] = lp_char[lp$v_truncate] = 1
0785      ELSE
0786      BEGIN
0787      flags[set$v_nottruncate] = 1;
0788      lp_char[lp$v_truncate] = 0;
0789      END;
0790      END;
0791
0792      IF (status = cli$present(%ASCID 'TAB')) NEQ cli$_absent
0793      THEN
0794      BEGIN
0795      IF .status NEQ cli$_negated
0796      THEN flags[set$v_tab] = lp_char[lp$v_tab] = 1
0797      ELSE
0798      BEGIN
0799      flags[set$v_notab] = 1;
0800      lp_char[lp$v_tab] = 0;
0801      END;
0802      END;
0803
0804      IF (status = cli$present(%ASCID 'SIXELS')) NEQ cli$_absent
0805      THEN
0806      BEGIN
0807      IF .status NEQ cli$_negated
0808      THEN flags[set$v_sixel] = lp_char[lp$v_sixel] = 1
0809      ELSE
0810      BEGIN
0811      flags[set$v_nosixel] = 1;
0812      lp_char[lp$v_sixel] = 0;
0813      END;
0814      END;
0815
0816      IF (status = cli$present(%ASCID 'BITMAPPED')) NEQ cli$_absent
0817      THEN
0818      BEGIN
0819      IF .status NEQ cli$_negated
0820      THEN flags[set$v_bitmapped] = lp_char[lp$v_bitmapped] = 1
0821      ELSE
0822      BEGIN
0823      flags[set$v_nobitmapped] = 1;
0824      lp_char[lp$v_bitmapped] = 0;
0825      END;
0826      END;
0827
0828      END;
0829
0830
0831
0832
0833
0834
0835
0836
0837
0838
```

```

839 0834 2
840 0835 2
841 0836 2
842 0837 2
843 0838 2
844 0839 2
845 0840 2
846 0841 2
847 0842 2
848 0843 2
849 0844 2
850 0845 2
851 0846 2
852 0847 2
853 0848 2
854 0849 2
855 0850 2
856 0851 2
857 0852 2
858 0853 2
859 0854 2
860 0855 2
861 0856 2
862 0857 2
863 0858 2
864 0859 2
865 0860 2
866 0861 2
867 0862 2
868 0863 2
869 0864 2
870 0865 2
871 0866 2
872 0867 2
873 0868 2
874 0869 2
875 0870 2
876 0871 2
877 0872 2
878 0873 2
879 0874 2
880 0875 2
881 0876 2
882 0877 2
883 0878 2
884 0879 2
885 0880 2
886 0881 2
887 0882 2
888 0883 2
889 0884 2
890 0885 2
891 0886 2
892 0887 2
893 0888 2
894 0889 2
895 0890 2

```

```

:
: Printer type
:
IF (flags[set$vp_lp11] = cli$present(%ASCID 'LP11'))
THEN info_block[dib$b_devtype] = lp$ lp11
ELSE IF (flags[set$vp_la180] = cli$present(%ASCID 'LA180'))
THEN info_block[dib$b_devtype] = lp$ la180
ELSE IF (flags[set$vp_la11] = cli$present(%ASCID 'LA11'))
THEN info_block[dib$b_devtype] = lp$ la11
ELSE IF (flags[set$vp_unk] = cli$present(%ASCID 'UNKNOWN'))
THEN info_block[dib$b_devtype] = 0;
:
: Page length
:
IF (flags[set$vp_page] = cli$get_value(%ASCID 'PAGE', page_desc))
THEN
BEGIN
LOCAL length;
IF NOT lib$cvt_dtb(.page_desc[dsc$w_length],
page_desc[dsc$a_pointer],
length)
THEN
BEGIN
SIGNAL(set$_invquaval, 2, page_desc, %ASCID 'PAGE');
RETURN
END;
IF .length GTR 255
OR .length LSS 0
THEN
BEGIN
SIGNAL(set$_valerr);
RETURN;
END;
info_block[11, 0, 8, 0] = .length;
END;
:
: Page width
:
IF (flags[set$vp_width] = cli$get_value(%ASCID 'WIDTH', width_desc))
THEN
BEGIN
LOCAL width;
IF NOT lib$cvt_dtb(.width_desc[dsc$w_length],
width_desc[dsc$a_pointer],
width)
THEN
BEGIN
SIGNAL(set$_invquaval, 2, width_desc, %ASCID 'PAGE');
RETURN
END;
IF .width GTR 65535
OR .width LSS 0
THEN

```

```

896      0891      4          BEGIN
897      0892      4          SIGNAL(set$_valerr);
898      0893      4          RETURN;
899      0894      4          END;
900      0895      4          info_block[dib$_devbufsiz] = .width;
901      0896      4          END;
902      0897      4
903      0898      4          |
904      0899      4          | Set the specified characteristic.
905      0900      4          |
906      P 0901      4          status = $QIOW(CHAN = .channel,
907      P 0902      4          FUNC = IOS$ SETMODE,
908      P 0903      4          IOSB = iosb,
909      P 0904      4          P1  = info_block[dib$_devclass],
910      0905      4          P2  = 8);
911      0906      4
912      0907      4          IF .status
913      0908      4          THEN status = .iosb[0];
914      0909      4          IF NOT .status
915      0910      4          THEN SIGNAL(set$_writeerr, 1, desc, .status)
916      0911      4
917      0912      4          |
918      0913      4          | If /LOG, then say what was changed.
919      0914      4          |
920      0915      4          ELSE IF .flags[set$_v_log]
921      0916      4          THEN
922      0917      4          BEGIN
923      0918      4          IF .flags[set$_v_ff]
924      0919      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'FF')
925      0920      4          ELSE IF .flags[set$_v_noff]
926      0921      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOFF');
927      0922      4
928      0923      4          IF .flags[set$_v_cr]
929      0924      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'CR')
930      0925      4          ELSE IF .flags[set$_v_nocr]
931      0926      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOCR');
932      0927      4
933      0928      4          IF .flags[set$_v_pass]
934      0929      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'PASSALL')
935      0930      4          ELSE IF .flags[set$_v_nopass]
936      0931      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOPASSALL');
937      0932      4
938      0933      4          IF .flags[set$_v_print]
939      0934      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'PRINTALL')
940      0935      4          ELSE IF .flags[set$_v_noprint]
941      0936      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOPRINTALL');
942      0937      4
943      0938      4          IF .flags[set$_v_wrap]
944      0939      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'WRAP')
945      0940      4          ELSE IF .flags[set$_v_nowrap]
946      0941      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'NOWRAP');
947      0942      4
948      0943      4          IF .flags[set$_v_lower]
949      0944      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'LOWERCASE')
950      0945      4          ELSE IF .flags[set$_v_upper]
951      0946      4          THEN SIGNAL(set$_devset1, 2, desc, %ASCID 'UPPERCASE');
952      0947      4

```

```

: 953 0948 3 IF .flags[set$ fallback]
: 954 0949 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'FALLBACK')
: 955 0950 ELSE IF .flags[set$ nofallback]
: 956 0951 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'NOFALLBACK');
: 957 0952
: 958 0953 IF .flags[set$ truncate]
: 959 0954 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'TRUNCATE')
: 960 0955 ELSE IF .flags[set$ nottruncate]
: 961 0956 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'NOTRUNCATE');
: 962 0957
: 963 0958 IF .flags[set$ tab]
: 964 0959 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'TAB')
: 965 0960 ELSE IF .flags[set$ notab]
: 966 0961 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'NOTAB');
: 967 0962
: 968 0963 IF .flags[set$ sixels]
: 969 0964 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'SIXELS')
: 970 0965 ELSE IF .flags[set$ nosixels]
: 971 0966 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'NOSIXELS');
: 972 0967
: 973 0968 IF .flags[set$ bitmapped]
: 974 0969 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'BITMAPPED')
: 975 0970 ELSE IF .flags[set$ nobitmapped]
: 976 0971 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'NOBITMAPPED');
: 977 0972
: 978 0973 IF .flags[set$ lp11]
: 979 0974 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'LP11')
: 980 0975 ELSE IF .flags[set$ la180]
: 981 0976 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'LA180')
: 982 0977 ELSE IF .flags[set$ la11]
: 983 0978 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'LA11')
: 984 0979 ELSE IF .flags[set$ unk]
: 985 0980 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'UNKNOWN');
: 986 0981
: 987 0982 IF .flags[set$ page]
: 988 0983 THEN SIGNAL(set$ devset2, 3, desc, %ASCID 'PAGE', page_desc);
: 989 0984
: 990 0985 IF .flags[set$ width]
: 991 0986 THEN SIGNAL(set$ devset1, 2, desc, %ASCID 'WIDTH', width_desc);
: 992 0987 END;
: 993 0988
: 994 0989 2 RETURN;
: 995 0990 1 END;

```

.PSECT \$SPLITS,NOWRT,NOEXE,2

```

00 00 45 43 49 56 45 44 001E4 P.ACL: .ASCII \DEVICE\<0><0>
          010E0006 001EC P.ACK: .LONG 17694726
          00000000' 001F0 .ADDRESS P.ACL
00 47 4F 4C 001F4 P.ACN: .ASCII \LOG\<0>
          010E0003 001F8 P.ACM: .LONG 17694723
          00000000' 001FC .ADDRESS P.ACN
00 00 46 46 00200 P.ACP: .ASCII \F\<0><0>
          010E0002 00204 P.ACO: .LONG 17694722
          00000000' 00208 .ADDRESS P.ACP

```

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				00	00	52	43	0020C	P.ACR:	.ASCII	\CR\<0><0>				
						010E0002		00210	P.ACQ:	.LONG	17694722				
						00000000		00214		.ADDRESS	P.ACR				
	00	4C	4C	41	53	53	41	50	00218	P.ACT:	.ASCII	\PASSALL\<0>			
						010E0007		00220	P.ACS:	.LONG	17694727				
						00000000		00224		.ADDRESS	P.ACT				
	4C	4C	41	54	4E	49	52	50	00228	P.ACV:	.ASCII	\PRINTALL\			
						010E0008		00230	P.ACU:	.LONG	17694728				
						00000000		00234		.ADDRESS	P.ACV				
								00238	P.ACX:	.ASCII	\WRAP\				
						010E0004		0023C	P.ACW:	.LONG	17694724				
						00000000		00240		.ADDRESS	P.ACX				
00	00	00	45	53	41	43	52	45	50	50	55	00244	P.ACZ:	.ASCII	\UPPERCASE\<0><0><0>
						010E0009		00250	P.ACY:	.LONG	17694729				
						00000000		00254		.ADDRESS	P.ACZ				
00	00	00	45	53	41	43	52	45	57	4F	4C	00258	P.ADB:	.ASCII	\LOWERCASE\<0><0><0>
						010E0009		00264	P.ADA:	.LONG	17694729				
						00000000		00268		.ADDRESS	P.ADB				
	4B	43	41	42	4C	4C	41	46	0026C	P.ADD:	.ASCII	\FALLBACK\			
						010E0008		00274	P.ADC:	.LONG	17694728				
						00000000		00278		.ADDRESS	P.ADD				
	45	54	41	43	4E	55	52	54	0027C	P.ADF:	.ASCII	\TRUNCATE\			
						010E0008		00284	P.ADE:	.LONG	17694728				
						00000000		00288		.ADDRESS	P.ADF				
								0028C	P.ADH:	.ASCII	\TAB\<0>				
						010E0003		00290	P.ADG:	.LONG	17694723				
						00000000		00294		.ADDRESS	P.ADH				
	00	00	53	4C	45	58	49	53	00298	P.ADJ:	.ASCII	\SIXELS\<0><0>			
						010E0006		002A0	P.ADI:	.LONG	17694726				
						00000000		002A4		.ADDRESS	P.ADJ				
00	00	00	44	45	50	50	41	4D	54	49	42	002A8	P.ADL:	.ASCII	\BITMAPPED\<0><0><0>
						010E0009		002B4	P.ADK:	.LONG	17694729				
						00000000		002B8		.ADDRESS	P.ADL				
								002BC	P.ADN:	.ASCII	\LP11\				
						010E0004		002C0	P.ADM:	.LONG	17694724				
						00000000		002C4		.ADDRESS	P.ADN				
	00	00	00	30	38	31	41	4C	002C8	P.ADP:	.ASCII	\LA180\<0><0><0>			
						010E0005		002D0	P.ADO:	.LONG	17694725				
						00000000		002D4		.ADDRESS	P.ADP				
								002D8	P.ADR:	.ASCII	\LA11\				
						010E0004		002DC	P.ADQ:	.LONG	17694724				
						00000000		002E0		.ADDRESS	P.ADR				
00	4E	57	4F	4E	4E	4B	4E	55	002E4	P.ADT:	.ASCII	\UNKNOWN\<0>			
						010E0007		002EC	P.ADS:	.LONG	17694727				
						00000000		002F0		.ADDRESS	P.ADT				
								002F4	P.ADV:	.ASCII	\PAGE\				
						010E0004		002F8	P.ADU:	.LONG	17694724				
						00000000		002FC		.ADDRESS	P.ADV				
								00300	P.ADX:	.ASCII	\PAGE\				
						010E0004		00304	P.ADW:	.LONG	17694724				
						00000000		00308		.ADDRESS	P.ADX				
00	00	00	48	54	44	49	57		0030C	P.ADZ:	.ASCII	\WIDTH\<0><0><0>			
						010E0005		00314	P.ADY:	.LONG	17694725				
						00000000		00318		.ADDRESS	P.ADZ				
								0031C	P.AEB:	.ASCII	\PAGE\				
						010E0004		00320	P.AEA:	.LONG	17694724				
						00000000		00324		.ADDRESS	P.AEB				

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00 00 46 46 00328 P.AED: .ASCII \FF\<0><0>
      010E0002 0032C P.AEC: .LONG 17694722
      00000000 00330 .ADDRESS P.AED
46 46 4F 4E 00334 P.AEF: .ASCII \NOFF\
      010E0004 00338 P.AEE: .LONG 17694724
      00000000 0033C .ADDRESS P.AEF
00 00 52 43 00340 P.AEH: .ASCII \CR\<0><0>
      010E0002 00344 P.AEG: .LONG 17694722
      00000000 00348 .ADDRESS P.AEH
52 43 4F 4E 0034C P.AEJ: .ASCII \NOCR\
      010E0004 00350 P.AEI: .LONG 17694724
      00000000 00354 .ADDRESS P.AEJ
      00 4C 4C 41 53 53 41 50 00358 P.AEL: .ASCII \PASSALL\<0>
      010E0007 00360 P.AEK: .LONG 17694727
      00000000 00364 .ADDRESS P.AEL
00 00 00 4C 4C 41 53 53 41 50 00368 P.AEN: .ASCII \NOPASSALL\<0><0><0>
      010E0009 00374 P.AEM: .LONG 17694729
      00000000 00378 .ADDRESS P.AEN
      4C 4C 41 54 4E 49 52 50 0037C P.AEP: .ASCII \PRINTALL\
      010E0008 00384 P.AEO: .LONG 17694728
      00000000 00388 .ADDRESS P.AEP
00 00 4C 4C 41 54 4E 49 52 50 0038C P.AER: .ASCII \NOPRINTALL\<0><0>
      010E000A 00398 P.AEQ: .LONG 17694730
      00000000 0039C .ADDRESS P.AER
50 41 52 57 003A0 P.AET: .ASCII \WRAP\
      010E0004 003A4 P.AES: .LONG 17694724
      00000000 003A8 .ADDRESS P.AET
      00 00 50 41 52 57 4F 4E 003AC P.AEV: .ASCII \NOWRAP\<0><0>
      010E0006 003B4 P.AEU: .LONG 17694726
      00000000 003B8 .ADDRESS P.AEV
00 00 00 45 53 41 43 52 45 57 4F 4C 003BC P.AEX: .ASCII \LOWERCASE\<0><0><0>
      010E0009 003C8 P.AEW: .LONG 17694729
      00000000 003CC .ADDRESS P.AEX
00 00 00 45 53 41 43 52 45 50 50 55 003D0 P.AEZ: .ASCII \UPPERCASE\<0><0><0>
      010E0009 003DC P.AEY: .LONG 17694729
      00000000 003E0 .ADDRESS P.AEZ
      48 43 41 42 4C 4C 41 46 003E4 P.AFB: .ASCII \FALLBACK\
      010E0008 003EC P.AFA: .LONG 17694728
      00000000 003F0 .ADDRESS P.AFB
00 00 48 43 41 42 4C 4C 41 46 4F 4E 003F4 P.AFD: .ASCII \NOFALLBACK\<0><0>
      010E000A 00400 P.AFC: .LONG 17694730
      00000000 00404 .ADDRESS P.AFD
      45 54 41 43 4E 55 52 54 00408 P.AFF: .ASCII \TRUNCATE\
      010E0008 00410 P.AFE: .LONG 17694728
      00000000 00414 .ADDRESS P.AFF
00 00 45 54 41 43 4E 55 52 54 4F 4E 00418 P.AFH: .ASCII \NOTRUNCATE\<0><0>
      010E000A 00424 P.AFG: .LONG 17694730
      00000000 00428 .ADDRESS P.AFH
00 42 41 54 0042C P.AFJ: .ASCII \TAB\<0>
      010E0003 00430 P.AFI: .LONG 17694723
      00000000 00434 .ADDRESS P.AFJ
      00 00 00 42 41 54 4F 4E 00438 P.AFL: .ASCII \NOTAB\<0><0><0>
      010E0005 00440 P.AFK: .LONG 17694725
      00000000 00444 .ADDRESS P.AFL
      00 00 53 4C 45 58 49 53 00448 P.AFN: .ASCII \SIXELS\<0><0>
      010E0006 00450 P.AFM: .LONG 17694726
      00000000 00454 .ADDRESS P.AFN

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53	4C	45	58	49	53	4F	4E	00458	P.AFP:	.ASCII	\NOSIXELS\				
						010E0008		00460	P.AFO:	.LONG	17694728				
00	00	00	44	45	50	50	41	4D	54	49	42	00464	P.AFR:	.ADDRESS	P.AFP
						00000000		00468	P.AFQ:	.ASCII	\BITMAPPED\<0><0><0>				
00	44	45	50	50	41	4D	54	49	42	4F	4E	00474	P.AFT:	.LONG	17694729
						00000000		00478	P.AFS:	.ADDRESS	P.AFR				
						010E000B		00488	P.AFT:	.ASCII	\NOBITMAPPED\<0>				
						00000000		0048C	P.AFS:	.LONG	17694731				
							31	31	50	4C	00490	P.AFV:	.ADDRESS	P.AFT	
						010E0004		00494	P.AFV:	.ASCII	\LP11\				
00	00	00	30	38	31	41	4C	00498	P.AFU:	.LONG	17694724				
						00000000		0049C	P.AFU:	.ADDRESS	P.AFV				
						010E0005		004A4	P.AFX:	.ASCII	\LA180\<0><0><0>				
						00000000		004A8	P.AFW:	.LONG	17694725				
							31	31	41	4C	004AC	P.AFX:	.ADDRESS	P.AFX	
						010E0004		004B0	P.AFZ:	.ASCII	\LA11\				
						00000000		004B4	P.AFY:	.LONG	17694724				
00	4E	57	4F	4E	4B	4E	55	004B8	P.AFZ:	.ADDRESS	P.AFZ				
						010E0007		004C0	P.AFY:	.ASCII	\UNKNOWN\<0>				
						00000000		004C4	P.AGB:	.LONG	17694727				
							45	47	41	50	004C8	P.AGB:	.ADDRESS	P.AGB	
						010E0004		004CC	P.AGD:	.ASCII	\PAGE\				
						00000000		004D0	P.AGC:	.LONG	17694724				
00	00	00	48	54	44	49	57	004D4	P.AGD:	.ADDRESS	P.AGD				
						010E0005		004DC	P.AGF:	.ASCII	\WIDTH\<0><0><0>				
						00000000		004E0	P.AGE:	.LONG	17694725				
										.ADDRESS	P.AGF				

.PSECT \$CODES, NOWRT, 2

OFFC 00000

.ENTRY	SETS\$PRINTER, Save R2,R3,R4,R5,R6,R7,R8,R9,-	0606
MOVAB	R10,R11	
MOVAB	LIB\$CVT DTB, R11	
MOVL	#SETS\$WRITEERR, R10	
MOVAB	CLIS\$GET VALUE, R9	
MOVL	#CLIS\$NEGATED, R8	
MOVL	#CLIS\$ABSENT, R7	
MOVL	#SETS\$DEVSET1, R6	
MOVAB	CLIS\$PRESENT, R5	
MOVAB	LIB\$SIGNAL, R4	
MOVAB	P.ACK, R3	
MOVAB	-68(SP), SP	
CLRL	FLAGS	0607
MOVL	#34471936, DESC	0639
CLRL	DESC+4	
MOVL	#34471936, WIDTH_DESC	0640
CLRL	WIDTH_DESC+4	
MOVL	#34471936, PAGE_DESC	0641
CLRL	PAGE_DESC+4	
PUSHAB	DESC	0642
PUSHL	R3	
CALLS	#2, CLIS\$GET_VALUE	
CLRQ	-(SP)	0649
PUSHAB	CHANNEL	
PUSHAB	DESC	

5B	00000000G	00	9E	00002
5A	00000000G	8F	D0	00009
59	00000000G	00	9E	00010
58	00000000G	8F	D0	00017
57	00000000G	8F	D0	0001E
56	00000000G	8F	D0	00025
55	00000000G	00	9E	0002C
54	00000000G	00	9E	00033
53	00000000	EF	9E	0003A
5E	BC	AE	9E	00041
	0C	AE	D4	00045
2C	AE 020E0000	8F	D0	00048
	30	AE	D4	00050
3C	AE 020E0000	8F	D0	00053
	40	AE	D4	0005B
34	AE 020E0000	8F	D0	0005E
	38	AE	D4	00066
	2C	AE	9F	00069
		53	DD	0006C
69		02	FB	0006E
		7E	7C	00071
	08	AE	9F	00073
	38	AE	9F	00076

		00000000G	00	04	FB	00079	CALLS	#4, SYSS\$ASSIGN	
			52	50	D0	00080	MOVL	R0, STATUS	
			1E	52	E9	00083	BLBC	STATUS, 1\$	
		24	AE	0C	DC	00086	MOVL	#12, INFO_DESC	0658
		28	AE	18	AE	9E	MOVAB	INFO_BLOCK, INFO_DESC+4	0659
				24	AE	9F	PUSHAB	INFO_DESC	0661
					7E	7C	CLRQ	-(SP)	
					7E	D4	CLRL	-(SP)	
			7E	10	AE	3C	MOVZWL	CHANNEL, -(SP)	
		00000000G	00	05	FB	0009A	CALLS	#5, SYSS\$GETCHN	
			52	50	D0	000A1	MOVL	R0, STATUS	
			03	52	E8	000A4	BLBS	STATUS, 2\$	
				02FF	31	000A7	BRW	39\$	
		43	8F	1C	AE	91	CMPB	INFO_BLOCK+4, #67	0668
				10	13	000AF	BEQL	3\$	
		00000000G		8F	DD	000B1	PUSHL	#CLIS_IVDEVTYPE	0671
				30	AE	9F	PUSHAB	DESC	
				01	DD	000BA	PUSHL	#1	
				5A	DD	000BC	PUSHL	R10	
			64	04	FB	000BE	CALLS	#4, LIBSSIGNAL	
				0C	A3	9F	PUSHAB	P.ACM	0678
			65	01	FB	000C4	CALLS	#1, CLIS\$PRESENT	
OC	AE		00	50	F0	000C7	INSV	R0, #0, #1, FLAGS	
				18	A3	9F	PUSHAB	P.ACO	0683
			65	01	FB	000D0	CALLS	#1, CLIS\$PRESENT	
			52	50	D0	000D3	MOVL	R0, STATUS	
			57	52	D1	000D6	CMPL	STATUS, R7	
				17	13	000D9	BEQL	5\$	
			58	52	D1	000DB	CMPL	STATUS, R8	0686
				0A	13	000DE	BEQL	4\$	
		20	AE	02	88	000E0	BISB2	#2, LP_CHAR	0687
		0C	AE	02	88	000E4	BISB2	#2, FLAGS	
				08	11	000E8	BRB	5\$	
		0C	AE	04	88	000EA	BISB2	#4, FLAGS	0690
		20	AE	02	8A	000EE	BICB2	#2, LP_CHAR	0691
				24	A3	9F	PUSHAB	P.ACO	0695
			65	01	FB	000F5	CALLS	#1, CLIS\$PRESENT	
			52	50	D0	000F8	MOVL	R0, STATUS	
			57	52	D1	000FB	CMPL	STATUS, R7	
				17	13	000FE	BEQL	7\$	
			58	52	D1	00100	CMPL	STATUS, R8	0698
				0A	13	00103	BEQL	6\$	
		20	AE	01	88	00105	BISB2	#1, LP_CHAR	0699
		0C	AE	08	88	00109	BISB2	#8, FLAGS	
				08	11	0010D	BRB	7\$	
		0C	AE	10	88	0010F	BISB2	#16, FLAGS	0702
		20	AE	01	8A	00113	BICB2	#1, LP_CHAR	0703
				34	A3	9F	PUSHAB	P.ACS	0707
			65	01	FB	0011A	CALLS	#1, CLIS\$PRESENT	
			52	50	D0	0011D	MOVL	R0, STATUS	
			57	52	D1	00120	CMPL	STATUS, R7	
				18	13	00123	BEQL	9\$	
			58	52	D1	00125	CMPL	STATUS, R8	0710
				0A	13	00128	BEQL	8\$	
		21	AE	01	88	0012A	BISB2	#1, LP_CHAR+1	0711
		0C	AE	20	88	0012E	BISB2	#32, FLAGS	
				09	11	00132	BRB	9\$	

0C	AE	40	8F	88	00134	8\$:	BISB2	#64, FLAGS	0714
21	AE		01	8A	00139		BICB2	#1, LP_CHAR+1	0715
		44	A3	9F	0013D	9\$:	PUSHAB	P.ACU	0719
	65		01	FB	00140		CALLS	#1, CLISPRESNT	
	52		50	D0	00143		MOVL	R0, STATUS	
	57		52	D1	00146		CMPL	STATUS, R7	
			18	13	00149		BEQL	11\$	
	58		52	D1	0014B		CMPL	STATUS, R8	0722
			0B	13	0014E		BEQL	10\$	
20	AE		04	88	00150		BISB2	#4, LP_CHAR	0723
0C	AE	80	8F	88	00154		BISB2	#128, FLAGS	
			08	11	00159		BRB	11\$	
0D	AE		01	88	0015B	10\$:	BISB2	#1, FLAGS+1	0726
20	AE		04	8A	0015F		BICB2	#4, LP_CHAR	0727
		50	A3	9F	00163	11\$:	PUSHAB	P.ACW	0731
	65		01	FB	00166		CALLS	#1, CLISPRESNT	
	52		50	D0	00169		MOVL	R0, STATUS	
	57		52	D1	0016C		CMPL	STATUS, R7	
			17	13	0016F		BEQL	13\$	
	58		52	D1	00171		CMPL	STATUS, R8	0734
			0A	13	00174		BEQL	12\$	
20	AE		10	88	00176		BISB2	#16, LP_CHAR	0735
0D	AE		02	88	0017A		BISB2	#2, FLAGS+1	
			08	11	0017E		BRB	13\$	
0D	AE		04	88	00180	12\$:	BISB2	#4, FLAGS+1	0738
20	AE		10	8A	00184		BICB2	#16, LP_CHAR	0739
		64	A3	9F	00188	13\$:	PUSHAB	P.ACY	0743
	65		01	FB	0018B		CALLS	#1, CLISPRESNT	
	52		50	D0	0018E		MOVL	R0, STATUS	
	57		52	D1	00191		CMPL	STATUS, R7	
			19	13	00194		BEQL	15\$	
	58		52	D1	00196		CMPL	STATUS, R8	0746
			0B	12	00199		BNEQ	14\$	
20	AE	80	8F	88	0019B		BISB2	#128, LP_CHAR	0747
0D	AE		08	88	001A0		BISB2	#8, FLAGS+1	
			09	11	001A4		BRB	15\$	
0D	AE		10	88	001A6	14\$:	BISB2	#16, FLAGS+1	0750
20	AE	80	8F	8A	001AA		BICB2	#128, LP_CHAR	0751
		78	A3	9F	001AF	15\$:	PUSHAB	P.ADA	0755
	65		01	FB	001B2		CALLS	#1, CLISPRESNT	
	52		50	D0	001B5		MOVL	R0, STATUS	
	57		52	D1	001B8		CMPL	STATUS, R7	
			19	13	001BB		BEQL	17\$	
	58		52	D1	001BD		CMPL	STATUS, R8	0758
			0B	13	001C0		BEQL	16\$	
20	AE	80	8F	88	001C2		BISB2	#128, LP_CHAR	0759
0D	AE		08	88	001C7		BISB2	#8, FLAGS+1	
			09	11	001CB		BRB	17\$	
0D	AE		10	88	001CD	16\$:	BISB2	#16, FLAGS+1	0762
20	AE	80	8F	8A	001D1		BICB2	#128, LP_CHAR	0763
		0088	C3	9F	001D6	17\$:	PUSHAB	P.ADC	0768
	65		01	FB	001DA		CALLS	#1, CLISPRESNT	
	52		50	D0	001DD		MOVL	R0, STATUS	
	57		52	D1	001E0		CMPL	STATUS, R7	
			17	13	001E3		BEQL	19\$	
	58		52	D1	001E5		CMPL	STATUS, R8	0771
			0A	13	001E8		BEQL	18\$	

21	AE		02	88	001EA	BISB2	#2, LP_CHAR+1	0772	
0E	AE		08	88	001EE	BISB2	#8, FLAGS+2		
			08	11	001F2	BRB	19\$		
0E	AE		10	88	001F4	18\$:	BISB2	#16, FLAGS+2	0775
21	AE		02	8A	001F8	BICB2	#2, LP_CHAR+1	0776	
		0098	C3	9F	001FC	19\$:	PUSHAB	P.ADE	0781
	65		01	FB	00200	CALLS	#1, CLISPRESNT		
	52		50	D0	00203	MOVL	R0, STATUS		
	57		52	D1	00206	CMPL	STATUS, R7		
			1A	13	00209	BEQL	21\$		
	58		52	D1	0020B	CMPL	STATUS, R8	0784	
			0B	13	0020E	BEQL	20\$		
20	AE	40	8F	88	00210	BISB2	#64, LP_CHAR	0785	
0E	AE		20	88	00215	BISB2	#32, FLAGS+2		
			0A	11	00219	BRB	21\$		
0E	AE	40	8F	88	0021B	20\$:	BISB2	#64, FLAGS+2	0788
20	AE	40	8F	8A	00220	BICB2	#64, LP_CHAR	0789	
		00A4	C3	9F	00225	21\$:	PUSHAB	P.ADG	0794
	65		01	FB	00229	CALLS	#1, CLISPRESNT		
	52		50	D0	0022C	MOVL	R0, STATUS		
	57		52	D1	0022F	CMPL	STATUS, R7		
			18	13	00232	BEQL	23\$		
	58		52	D1	00234	CMPL	STATUS, R8	0797	
			0B	13	00237	BEQL	22\$		
20	AE		20	88	00239	BISB2	#32, LP_CHAR	0798	
0E	AE	80	8F	88	0023D	BISB2	#128, FLAGS+2		
			08	11	00242	BRB	23\$		
0F	AE		01	88	00244	22\$:	BISB2	#1, FLAGS+3	0801
20	AE		20	8A	00248	BICB2	#32, LP_CHAR	0802	
		00B4	C3	9F	0024C	23\$:	PUSHAB	P.ADI	0807
	65		01	FB	00250	CALLS	#1, CLISPRESNT		
	52		50	D0	00253	MOVL	R0, STATUS		
	57		52	D1	00256	CMPL	STATUS, R7		
			17	13	00259	BEQL	25\$		
	58		52	D1	0025B	CMPL	STATUS, R8	0810	
			0A	13	0025E	BEQL	24\$		
21	AE		04	88	00260	BISB2	#4, LP_CHAR+1	0811	
0F	AE		02	88	00264	BISB2	#2, FLAGS+3		
			08	11	00268	BRB	25\$		
0F	AE		04	88	0026A	24\$:	BISB2	#4, FLAGS+3	0814
21	AE		04	8A	0026E	BICB2	#4, LP_CHAR+1	0815	
		00C8	C3	9F	00272	25\$:	PUSHAB	P.ADK	0820
	65		01	FB	00276	CALLS	#1, CLISPRESNT		
	52		50	D0	00279	MOVL	R0, STATUS		
	57		52	D1	0027C	CMPL	STATUS, R7		
			17	13	0027F	BEQL	27\$		
	58		52	D1	00281	CMPL	STATUS, R8	0823	
			0A	13	00284	BEQL	26\$		
21	AE		08	88	00286	BISB2	#8, LP_CHAR+1	0824	
0F	AE		08	88	0028A	BISB2	#8, FLAGS+3		
			08	11	0028E	BRB	27\$		
0F	AE		10	88	00290	26\$:	BISB2	#16, FLAGS+3	0827
21	AE		08	8A	00294	BICB2	#8, LP_CHAR+1	0828	
		00D4	C3	9F	00298	27\$:	PUSHAB	P.ADM	0837
	65		01	FB	0029C	CALLS	#1, CLISPRESNT		
OD	AE	01	50	F0	0029F	INSV	R0, #5, #1, FLAGS+1		
	05		50	E9	002A5	BLBC	R0, 28\$		
	06								

			1D	AE		01	90	002A8	MOV	#1, INFO_BLOCK+5	0838		
						3F	11	002AC	BRB	31\$			
					00E4	C3	9F	002AE	28\$:	PUSHAB	P.ADD	0839	
OD	AE	01	65			01	FB	002B2		CALLS	#1, CLISPRESENT		
			06			50	FO	002B5		INSV	R0, #6, #1, FLAGS+1		
			06			50	E9	002BB		BLBC	R0, 29\$		
			1D	AE		03	90	002BE		MOV	#3, INFO_BLOCK+5	0840	
						29	11	002C2		BRB	31\$		
					00F0	C3	9F	002C4	29\$:	PUSHAB	P.ADD	0841	
OD	AE	01	65			01	FB	002C8		CALLS	#1, CLISPRESENT		
			07			50	FO	002CB		INSV	R0, #7, #1, FLAGS+1		
			06			50	E9	002D1		BLBC	R0, 30\$		
			1D	AE		02	90	002D4		MOV	#2, INFO_BLOCK+5	0842	
						13	11	002D8		BRB	31\$		
					0100	C3	9F	002DA	30\$:	PUSHAB	P.ADS	0843	
OE	AE	01	65			01	FB	002DE		CALLS	#1, CLISPRESENT		
			00			50	FO	002E1		INSV	R0, #0, #1, FLAGS+2		
			03			50	E9	002E7		BLBC	R0, 31\$		
					1D	AE	94	002EA		CLRB	INFO_BLOCK+5	0844	
					34	AE	9F	002ED	31\$:	PUSHAB	PAGE_DESC	0849	
					010C	C3	9F	002F0		PUSHAB	P.ADD		
OE	AE	01	69			02	FB	002F4		CALLS	#2, CLISGET_VALUE		
			01			50	FO	0C2F7		INSV	R0, #1, #1, -FLAGS+2		
			2D			50	E9	002FD		BLBC	R0, 33\$		
					04	AE	9F	00300		PUSHAB	LENGTH	0853	
					3C	AE	DD	00303		PUSHL	PAGE_DESC+4	0854	
					3C	AE	3C	00306		MOVZWL	PAGE_DESC, -(SP)	0853	
			7E			03	FB	0030A		CALLS	#3, LIB\$CVT_DTB		
			6B			50	E8	0030D		BLBS	R0, 32\$		
			09			C3	9F	00310		PUSHAB	P.ADW	0858	
					0118	AE	9F	00314		PUSHAB	PAGE_DESC		
					38	3E	11	00317		BRB	34\$		
					000000FF	8F	04	AE	D1	00319	32\$:	0862	
						4D	14	00321		CMPL	LENGTH, #255		
						04	AE	D5	00323	BGTR	36\$		
						48	19	00326		TSTL	LENGTH	0863	
						AE	90	00328		BLSS	36\$		
			23	AE		04	AE	90	00328	MOV	LENGTH, INFO_BLOCK+11	0869	
						3C	AE	9F	0032D	33\$:	PUSHAB	WIDTH_DESC	0875
					0128	C3	9F	00330		PUSHAB	P.ADY		
						02	FB	00334		CALLS	#2, CLISGET_VALUE		
OE	AE	01	69			50	FO	00337		INSV	R0, #2, #1, -FLAGS+2		
			02			50	E9	0033D		BLBC	R0, 38\$		
			3F			AE	9F	00340		PUSHAB	WIDTH	0879	
						08	AE	DD	00343	PUSHL	WIDTH_DESC+4	0880	
						44	AE	3C	00346	MOVZWL	WIDTH_DESC, -(SP)	0879	
			7E			03	FB	0034A		CALLS	#3, LIB\$CVT_DTB		
			6B			50	E8	0034D		BLBS	R0, 35\$		
			11			C3	9F	00350		PUSHAB	P.AEA	0884	
					0134	AE	9F	00354		PUSHAB	WIDTH_DESC		
					40	02	DD	00357	34\$:	PUSHL	#2		
					0077132A	8F	DD	00359		PUSHL	#7803690		
						51	11	0035F		BRB	40\$		
					0000FFFF	8F	08	AE	D1	00361	35\$:	0888	
						05	14	00369		CMPL	WIDTH, #65535		
						08	AE	D5	0036B	BGTR	36\$		
						0A	18	0036E		TSTL	WIDTH	0889	
					007711EA	8F	DD	00370	36\$:	BGEQ	37\$		
										PUSHL	#7803370	0892	

		64	01	FB	00376		CALLS	#1, LIBSSIGNAL	
			04	00379		RET			0891
	1E	AE	08	AE	B0 0037A	37\$:	MOVW	WIDTH, INFO_BLOCK+6	0895
				7E	7C 0037F	38\$:	CLRQ	-(SP)	0905
				7E	7C 00381		CLRQ	-(SP)	
			08	DD	00383		PUSHL	#8	
			30	AE	9F 00385		PUSHAB	INFO_BLOCK+4	
				7E	7C 00388		CLRQ	-(SP)	
			30	AE	9F 0038A		PUSHAB	IOSB	
			23	DD	0038D		FJSHL	#35	
		7E	28	AE	3C 0038F		MOVZWL	CHANNEL, -(SP)	
				7E	D4 00393		CLRL	-(SP)	
	00000000G	00		OC	FB 00395		CALLS	#12, SYSSQIOW	
		52		50	DO 0039C		MOVL	R0, STATUS	
		07		52	E9 0039F		BLBC	STATUS, 39\$	0907
		52	10	AE	3C 003A2		MOVZWL	IOSB, STATUS	0908
		0D		52	EB 003A6		BLBS	STATUS, 41\$	0909
				52	DD 003A9	39\$:	PUSHL	STATUS	0910
			30	AE	9F 003AB		PUSHAB	DESC	
				01	DD 003AE		PUSHL	#1	
				5A	DD 003B0		PUSHL	R10	
		64		04	FB 003B2	40\$:	CALLS	#4, LIBSSIGNAL	
				04	003B5		RET		
		01	0C	AE	EB 003B6	41\$:	BLBS	FLAGS, 42\$	0915
				04	003BA		RET		
06	OC	AE		01	E1 003BB	42\$:	BBC	#1, FLAGS, 43\$	0918
			0140	C3	9F 003C0		PUSHAB	P.AEC	0919
				09	11 003C4		BRB	44\$	
0E	OC	AE		02	E1 003C6	43\$:	BBC	#2, FLAGS, 45\$	0920
			014C	C3	9F 003CB		PUSHAB	P.AEE	0921
			30	AE	9F 003CF	44\$:	PUSHAB	DESC	
				02	DD 003D2		PUSHL	#2	
				56	DD 003D4		PUSHL	R6	
		64		04	FB 003D6		CALLS	#4, LIBSSIGNAL	
06	OC	AE		03	E1 003D9	45\$:	BBC	#3, FLAGS, 46\$	0923
			0158	C3	9F 003DE		PUSHAB	P.AEG	0924
				09	11 003E2		BRB	47\$	
0E	OC	AE		04	E1 003E4	46\$:	BBC	#4, FLAGS, 48\$	0925
			0164	C3	9F 003E9		PUSHAB	P.AEI	0926
			30	AE	9F 003ED	47\$:	PUSHAB	DESC	
				C2	DD 003F0		PUSHL	#2	
				56	DD 003F2		PUSHL	R6	
		64		04	FB 003F4		CALLS	#4, LIBSSIGNAL	
06	OC	AE		05	E1 003F7	48\$:	BBC	#5, FLAGS, 49\$	0928
			0174	C3	9F 003FC		PUSHAB	P.AEK	0929
				09	11 00400		BRB	50\$	
0E	OC	AE		06	E1 00402	49\$:	BBC	#6, FLAGS, 51\$	0930
			0188	C3	9F 00407		PUSHAB	P.AEM	0931
			30	AE	9F 0040B	50\$:	PUSHAB	DESC	
				02	DD 0040E		PUSHL	#2	
				56	DD 00410		PUSHL	R6	
		64		04	FB 00412		CALLS	#4, LIBSSIGNAL	
			OC	AE	95 00415	51\$:	TSTB	FLAGS	0933
				06	18 00418		BGEQ	52\$	
			0198	C3	9F 0041A		PUSHAB	P.AEO	0934
				08	11 0041E		BRB	53\$	
		0E	0D	AE	E9 00420	52\$:	BLBC	FLAGS+1, 54\$	0935

Line	Address	Mode	Op	Op	Op	Op	Op	Op	Op	
	01AC 30		C3 AE	9F 9F	00424 00428				PUSHAB P.AEQ	0936
			02 56	DD DD	0042B 0042D	53\$:			PUSHAB DESC	
		64	04	FB	0042F				PUSHL R6	
			01	E1	00432				CALLS #4, LIBSSIGNAL	
06		OD	AE						BBC #1, FLAGS+1, 55\$	0938
	01B8		C3	9F	00437	54\$:			PUSHAB P.AES	0939
			09	11	0043B				BRB 56\$	
			02	E1	0043D				BBC #2, FLAGS+1, 57\$	0940
0E		OD	AE							
	01C8 30		C3 AE	9F 9F	00442 00446	55\$: 56\$:			PUSHAB P.AEU	0941
			02 56	DD DD	00449 0044B				PUSHAB DESC	
		64	04	FB	0044D				PUSHL R6	
			03	E1	00450				CALLS #4, LIBSSIGNAL	
06		OD	AE						BBC #3, FLAGS+1, 58\$	0943
	01DC		C3	9F	00455	57\$:			PUSHAB P.AEW	0944
			09	11	00459				BRB 59\$	
			04	E1	0045B				BBC #4, FLAGS+1, 60\$	0945
0E		OD	AE							
	01F0 30		C3 AE	9F 9F	00460 00464	58\$: 59\$:			PUSHAB P.AEY	0946
			02 56	DD DD	00467 00469				PUSHAB DESC	
		64	04	FB	0046B				PUSHL R6	
			03	E1	0046E				CALLS #4, LIBSSIGNAL	
06		OE	AE						BBC #3, FLAGS+2, 61\$	0948
	0200		C3	9F	00473	60\$:			PUSHAB P.AFA	0949
			09	11	00477				BRB 62\$	
			04	E1	00479				BBC #4, FLAGS+2, 63\$	0950
0E		OE	AE							
	0214 30		C3 AE	9F 9F	0047E 00482	61\$: 62\$:			PUSHAB P.AFC	0951
			02 56	DD DD	00485 00487				PUSHAB DESC	
		64	04	FB	00489				PUSHL R6	
			05	E1	0048C				CALLS #4, LIBSSIGNAL	
06		OE	AE						BBC #5, FLAGS+2, 64\$	0953
	0224		C3	9F	00491	63\$:			PUSHAB P.AFE	0954
			09	11	00495				BRB 65\$	
			06	E1	00497				BBC #6, FLAGS+2, 66\$	0955
0E		OE	AE							
	0238 30		C3 AE	9F 9F	0049C 004A0	64\$: 65\$:			PUSHAB P.AFG	0956
			02 56	DD DD	004A3 004A5				PUSHAB DESC	
		64	04	FB	004A7				PUSHL R6	
			AE	95	004AA				CALLS #4, LIBSSIGNAL	
			06	18	004AD				TSTB FLAGS+2	0958
	0244		C3	9F	004AF	66\$:			BGEQ 67\$	
			08	11	004B3				PUSHAB P.AFI	0959
			AE	E9	004B5				BRB 68\$	
		OE	OF						BLBC FLAGS+3, 69\$	0960
	0254 30		C3 AE	9F 9F	004B9 004BD	67\$: 68\$:			PUSHAB P.AFK	0961
			02 56	DD DD	004C0 004C2				PUSHAB DESC	
		64	04	FB	004C4				PUSHL R6	
			01	E1	004C7				CALLS #4, LIBSSIGNAL	
06		OF	AE						BBC #1, FLAGS+3, 70\$	0963
	0264		C3	9F	004CC	69\$:			PUSHAB P.AFM	0964
			09	11	004D0				BRB 71\$	
			02	E1	004D2				BBC #2, FLAGS+3, 72\$	0965
0E		OF	AE							
	0274 30		C3 AE	9F 9F	004D7 004DB	70\$: 71\$:			PUSHAB P.AFO	0966
									PUSHAB DESC	

			02	DD	004DE		PUSHL	#2		
			56	DD	004E0		PUSHL	R6		
06	OF	64	04	FB	004E2		CALLS	#4, LIB\$SIGNAL		
		AE	03	E1	004E5	72\$:	BBC	#3, FLAGS+3, 73\$		0968
			0288	C3	9F	004EA	PUSHAB	P.AFQ		0969
			09	11	004EE		BRB	74\$		
0E	OF	AE	04	E1	004F0	73\$:	BBC	#4, FLAGS+3, 75\$		0970
			029C	C3	9F	004F5	PUSHAB	P.AFS		0971
			30	AE	9F	004F9	PUSHAB	DESC		
			02	DD	004FC		PUSHL	#2		
			56	DD	004FE		PUSHL	R6		
06	OD	64	04	FB	00500		CALLS	#4, LIB\$SIGNAL		
		AE	05	E1	00503	75\$:	BBC	#5, FLAGS+1, 76\$		0973
			02A8	C3	9F	00508	PUSHAB	P.AFU		0974
			1E	11	0050C		BRB	79\$		
06	OD	AE	06	E1	0050E	76\$:	BBC	#6, FLAGS+1, 77\$		0975
			02B8	C3	9F	00513	PUSHAB	P.AFW		0976
			0D	13	11	00517	BRB	79\$		
			06	AE	95	00519	TSTB	FLAGS+1		0977
			02C4	06	18	0051C	BGEQ	78\$		
			0E	C3	9F	0051E	PUSHAB	P.AFY		0978
			0E	08	11	00522	BRB	79\$		
		0E	0E	AE	E9	00524	BLBC	FLAGS+2, 80\$		0979
			02D4	C3	9F	00528	PUSHAB	P.AGA		0980
			30	AE	9F	0052C	PUSHAB	DESC		
			02	DD	0052F		PUSHL	#2		
			56	DD	00531		PUSHL	R6		
15	OE	64	04	FB	00533		CALLS	#4, LIB\$SIGNAL		
		AE	01	E1	00536	80\$:	BBC	#1, FLAGS+2, 81\$		0982
			34	AE	9F	0053B	PUSHAB	PAGE_DESC		0983
			02E0	C3	9F	0053E	PUSHAB	P.AGT		
			34	AE	9F	00542	PUSHAB	DESC		
			00000000G	03	DD	00545	PUSHL	#3		
			05	DD	00547		PUSHL	#SETS_DEVSET2		
11	OE	64	05	FB	0054D		CALLS	#5, LIB\$SIGNAL		
		AE	02	E1	00550	81\$:	BBC	#2, FLAGS+2, 82\$		0985
			3C	AE	9F	00555	PUSHAB	WIDTH_DESC		0986
			02F0	C3	9F	00558	PUSHAB	P.AGE		
			34	AE	9F	0055C	PUSHAB	DESC		
			02	DD	0055F		PUSHL	#2		
			56	DD	00561		PUSHL	R6		
		64	05	FB	00563		CALLS	#5, LIB\$SIGNAL		
			04	00566	82\$:	RET				0990

: Routine Size: 1383 bytes, Routine Base: \$CODE\$ + 0551

SETDEVS
V04-000

F 16
16-Sep-1984 00:47:57
14-Sep-1984 12:09:05

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: 997 0991 1 END
: 998 0992 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	1252 NOVEC,NOWRT, RD	,NOEXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)
\$CODES	2744 NOVEC,NOWRT, RD	, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32:1	9776	60	0	581	00:01.0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SETDEVS/OBJ=OBJ\$:SETDEVS MSRC\$:SETDEVS/UPDATE=(ENH\$:SETDEVS)

: Size: 2744 code + 1252 data bytes
: Run Time: 00:46.7
: Elapsed Time: 02:37.8
: Lines/CPU Min: 1274
: Lexemes/CPU-Min: 21763
: Memory Used: 423 pages
: Compilation Complete

0052 AH-BT13A-SE
VAX/VMS V4.0

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