

LLL		III	NNN	NNN	KKK	KKK	EEEE	RRRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLL		III	NNN	NNN	KKK	KKK	EEEE	RRR
LLLLLLLLLLLLLLLL	III	III	NNN	NNN	KKK	KKK	EEEE	RRR
LLLLLLLLLLLLLLLL	III	III	NNN	NNN	KKK	KKK	EEEE	RRR
LLLLLLLLLLLLLLLL	III	III	NNN	NNN	KKK	KKK	EEEE	RRR

```

LL      NN      NN  KK      KK  EEEEEEEEE  RRRRRRR  RRRRRRR  000000  UU      UU  TTTTTTTTT
LL      NN      NN  KK      KK  EEEEEEEEE  RRRRRRR  RRRRRRR  000000  UU      UU  TTTTTTTTT
LL      NN      NN  KK      KK  EE          RR          RR          RR          UU      UU  TT
LL      NN      NN  KK      KK  EE          RR          RR          RR          UU      UU  TT
LL      NNNN    NN  KK      KK  EE          RR          RR          RR          UU      UU  TT
LL      NNNN    NN  KK      KK  EE          RR          RR          RR          UU      UU  TT
LL      NN  NN  NN  KKKKKK  EEEEEEE  RRRRRRR  RRRRRRR  000000  UU      UU  TT
LL      NN  NN  NN  KKKKKK  EEEEEEE  RRRRRRR  RRRRRRR  000000  UU      UU  TT
LL      NN      NNNN  KK      KK  EE          RR  RR  RR  RR  UU      UU  TT
LL      NN      NNNN  KK      KK  EE          RR  RR  RR  RR  UU      UU  TT
LL      NN      NN  KK      KK  EE          RR      RR  RR      RR  UU      UU  TT
LL      NN      NN  KK      KK  EE          RR      RR  RR      RR  UU      UU  TT
LLLLLLLLLL  NN      NN  KK      KK  EEEEEEEEE  RR          RR  RR          RR  000000  UUUUUUUUU  TT
LLLLLLLLLL  NN      NN  KK      KK  EEEEEEEEE  RR          RR  RR          RR  000000  UUUUUUUUU  TT

```

```

....
....
....
....

```

```

LL      IIIIII  SSSSSSS
LL      IIIIII  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
LLLLLLLLLL  IIIIII  SSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSS

```



```

1 0001 0 MODULE LNK_HANDLER (
2 0002 0 IDENT = 'V04-000'
3 0003 0 ADDRESSING_MODE (EXTERNAL=GENERAL,
4 0004 0 NONEXTERNAL=LONG_RELATIVE)
5 0005 0 ) =
6 0006 0
7 0007 1 BEGIN
8 0008 1
9 0009 1
10 0010 1 *****
11 0011 1 *
12 0012 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
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28 0028 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
29 0029 1 *
30 0030 1 *
31 0031 1 *****
32 0032 1
33 0033 1
34 0034 1
35 0035 1
36 0036 1
37 0037 1 ++
38 0038 1
39 0039 1 MODULE: LNK_HANDLER
40 0040 1
41 0041 1 FACILITY: LINKER
42 0042 1
43 0043 1 ABSTRACT: ERROR HANDLER FOR THE LINKER
44 0044 1
45 0045 1 HISTORY:
46 0046 1
47 0047 1 VERSION: X01.00
48 0048 1
49 0049 1 AUTHOR: T.J. PORTER 30-DEC-76
50 0050 1
51 0051 1 MODIFIED BY:
52 0052 1
53 0053 1 V03-002 BLS0031 Benn Schreiber 19-Jan-1981
54 0054 1 Print Pass 1 error messages in map in pass 2
55 0055 1
56 0056 1 V03-001 BLS0007 Benn Schreiber, 3-Jun-1980
57 0057 1 Rewrite and convert to MDL data structures.

```

LNK\_HANDLER  
V04=000

: 58

0058 1 !--

N 3  
15-Sep-1984 23:57:09  
14-Sep-1984 12:40:29

VAX-11 Bliss-32 V4.0-742  
[LINKER.SRC]LNKERROUT.B32;1

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(1)

LNK  
V04

.....

```
60 0059 1
61 0060 1
62 0061 1 ++
63 0062 1
64 0063 1 FUNCTIONAL DESCRIPTION:
65 0064 1
66 0065 1 This module processes errors for the linker.
67 0066 1 --
68 0067 1
69 0068 1 LIBRARY
70 0069 1 LIBRARY 'STARLETL32';           ! VMS AND RMS INTERFACES
71 0070 1 LIBRARY 'DATBAS';           ! DATA BASE
72 0071 1 REQUIRE 'DATBAS';           ! DATA BASE
73 0072 1 REQUIRE 'PREFIX';           ! GENERAL MACROS ETC
74 0073 1
75 0188 1
76 0189 1 EXTERNAL
77 0190 1 LNK$GB_PASS : BYTE,           ! PASS 1 OR 2
78 0191 1 LNK$GL_CUROMD : REF BLOCK[BYTE], ! POINTER TO CURRENT OBJECT MODULE DESCRIPTOR
79 0192 1 LNK$GL_CTLMSK : BLOCK[BYTE]; ! CONTROL FLAGS
80 0193 1
81 0194 1 EXTERNAL ROUTINE
82 0195 1 LNK$ALLOBLK;           ! ALLOCATE VIRTUAL MEMORY
83 0196 1
84 0197 1 PSECT PLIT = $CODE$;       ! MOVE THE PLITS
85 0198 1
86 0199 1 $SHR_MESSAGES - a macro which defines facility-specific message codes
87 0200 1 which are based on the system-wide shared message codes.
88 0201 1
89 0202 1 $SHR_MESSAGES( name, code, (msg,severity), ... )
90 0203 1
91 0204 1 where:
92 0205 1 "name" is the name of the facility (e.g., COPY)
93 0206 1 "code" is the corresponding facility code (e.g., 103)
94 0207 1 "msg" is the name of the shared message (e.g., BEGIN)
95 0208 1 "severity" is the desired message severity (e.g., 1, 0, 2)
96 0209 1
97 0210 1
98 0211 1 MACRO
99 M 0212 1 $SHR_MESSAGES( FACILITY_NAME, FACILITY_CODE ) =
100 M 0213 1 GLOBAL LITERAL
101 0214 1 SHR$MSG_IDS( FACILITY_NAME, FACILITY_CODE, %REMAINING ); %,
102 0215 1
103 M 0216 1 SHR$MSG_IDS( FACILITY_NAME, FACILITY_CODE ) [ VALUE ] =
104 0217 1 SHR$MSG_CALC( FACILITY_NAME, FACILITY_CODE, %REMOVE(VALUE) ) %,
105 0218 1
106 M 0219 1 SHR$MSG_CALC( FACILITY_NAME, FACILITY_CODE, MSG_ID, SEVERITY ) =
107 M 0220 1 %NAME( FACILITY_NAME, '$ ' MSG_ID ) = %NAME( 'SHR$_' , MSG_ID ) + FACILITY_CODE * 65536 +
108 M 0221 1 %IF %DECLARED( %NAME( 'ST$K_' , SEVERITY ) )
109 M 0222 1 %THEN %NAME( 'ST$K_' , SEVERITY )
110 0223 1 %ELSE SEVERITY %FI-%;
111 0224 1
112 0225 1
113 0226 1 !
114 0227 1 EXTERNAL LITERAL
115 0228 1 LINK$ FACILITY,
116 0229 1 LINK$ FATALERROR;
```

```
: 117 0230 1  
: 118 P 0231 1 $SHR_MESSAGES (LIN, 100, : facility is Link, id is 151  
: 119 P 0232 1 (openin, severe), : error opening "file" as input  
: 120 P 0233 1 (openout, warning), : error opening "file" as output  
: 121 P 0234 1 (closein, warning), : error closing "file" as input  
: 122 P 0235 1 (closeout, warning), : error closing "file" as output  
: 123 P 0236 1 (readerr, warning), : error reading "file"  
: 124 0237 1 (writeerr, error)); : error writing "file"  
: 125 0238 1  
: 126 0239 1 EXTERNAL ROUTINE  
: 127 0240 1 LNK$MAPOUT, : Output to map file  
: 128 0241 1 LNK$EXIT; : Linker exit routine  
: 129 0242 1  
: 130 0243 1  
: 131 0244 1 GLOBAL  
: 132 0245 1 LNK$GL_ERRLIST, : Listhead for pass 1 non-module errors  
: 133 0246 1 LNK$GL_LASTERR : INITIAL (LNK$GL_ERRLIST), : pointer to last pass 1 non-module error  
: 134 0247 1 LNK$GB_MAXERCOD : BYTE INITIAL (T); : Maximum error code seen during link
```

```
136 0248 1 GLOBAL ROUTINE LNK$ERRMSG(ERRORMSGDESC) =
137 0249 1
138 0250 1 ---
139 0251 1
140 0252 1 This routine is called by SYSS$PUTMSG after it has formatted the error
141 0253 1 message and just before it writes the message to SYSS$ERROR or SYSS$OUTPUT.
142 0254 1 The input parameter is a string descriptor for the formatted message.
143 0255 1 This routine is used to output error messages to the map file.
144 0256 1
145 0257 1 INPUTS:
146 0258 1
147 0259 1 ERRORMSGDESC address of string descriptor of error text.
148 0260 1
149 0261 1 OUTPUTS:
150 0262 1
151 0263 1 error text also output to map file if open.
152 0264 1 ---
153 0265 1
154 0266 2 BEGIN
155 0267 2
156 0268 2 MAP
157 0269 2 ERRORMSGDESC : REF BLOCK[,BYTE];
158 0270 2
159 0271 2 IF .LNK$GL_CTLMSK[LNK$V_MAPOPN]
160 0272 2 THEN LNK$MAPOUT(.ERRORMSGDESC[DSC$A_POINTER], ! Put message in map if mapping
161 0273 2 .ERRORMSGDESC[DSC$W_LENGTH]);
162 0274 2
163 0275 2 IF .LNK$GB_PASS EQL 1 ! If this is pass 1
164 0276 2 AND .LNK$GL_CTLMSK[LNK$V_MAP] ! and a map will be generated
165 0277 3 THEN BEGIN
166 0278 3 LOCAL
167 0279 3 LASTBLOCK : REF BLOCK[,BYTE],
168 0280 3 EBLOCK : REF BLOCK[,BYTE];
169 0281 3
170 0282 3 LNK$ALLOBLK(OEB$C_SIZE+.ERRORMSGDESC[DSC$W_LENGTH], ! Allocate a text block
171 0283 3 EBLOCK);
172 0284 3 EBLOCK[OEB$N_NEXTOEB] = 0; ! Zero link to next block
173 0285 3 EBLOCK[OEB$W_BYTCNT] = .ERRORMSGDESC[DSC$W_LENGTH]; ! Fill in the error message block
174 0286 3 IF .LNK$GL_CUROMD NEQ 0
175 0287 4 THEN BEGIN
176 0288 4 LASTBLOCK = .LNK$GL_CUROMD[OMD$L_LASTERR]; ! Get pointer to last on list
177 0289 4 LASTBLOCK[OEB$N_NEXTOEB] = .EBLOCK; ! Link new one into list
178 0290 4 LNK$GL_CUROMD[OMD$L_LASTERR] = .EBLOCK; ! and make this one the new last
179 0291 4 END
180 0292 4 ELSE BEGIN ! It's not related to any particular module
181 0293 4 LASTBLOCK = .LNK$GL_LASTERR; ! Get pointer to last non-module error
182 0294 4 LASTBLOCK[OEB$N_NEXTOEB] = .EBLOCK; ! And link new one in
183 0295 4 LNK$GL_LASTERR = .EBLOCK; ! Make this one the new last block
184 0296 3 END;
185 0297 3 CH$MOVE(.ERRORMSGDESC[DSC$W_LENGTH], ! Copy the text for printing in pass 2
186 0298 3 .ERRORMSGDESC[DSC$A_POINTER],
187 0299 3 EBLOCK[OEB$T_TEXT]);
188 0300 2 END;
189 0301 2 RETURN TRUE; ! Tell $PUTMSG to output
190 0302 2 ! msg on terminal
191 0303 1 END; ! end of map_outmsg
```

.TITLE LNK\_HANDLER  
.IDENT \V04-000\

.PSECT \$GLOBALS,NOEXE,2

00000 LNK\$GL\_ERRLIST::  
.BLKB 4  
00000000' 00004 LNK\$GL\_LASTERR::  
.ADDRESS LNK\$GL\_ERRLIST  
01 00008 LNK\$GB\_MAXERCOD::  
.BYTE 1

LINS\_OPENIN== 6557852  
LINS\_OPENOUT== 6557856  
LINS\_CLOSEIN== 6557776  
LINS\_CLOSEOUT== 6557784  
LINS\_READERR== 6557872  
LINS\_WRITEERR== 6557906  
.EXTRN LNK\$GB\_PASS, LNK\$GL\_CUROMD  
.EXTRN LNK\$GL\_CTLMSK, LNK\$ALLOBLK  
.EXTRN LNK\$FACILITY, LINS\_FATALERROR  
.EXTRN LNK\$MAPOUT, LNK\$EXIT

.PSECT \$CODES, NOWRT, 2

			00FC 00000	.ENTRY	LNK\$ERRMSG, Save R2,R3,R4,R5,R6,R7	: 0248
	57	00000000G	00 9E 00002	MOVAB	LNK\$GL_CTLMSK, R7	:
	56	00000000'	EF 9E 00009	MOVAB	LNK\$GL_LASTERR, R6	:
	5E		04 C2 00010	SUBL2	#4, SP	:
11	67		05 E1 00013	BBC	#5, LNK\$GL_CTLMSK, 1\$	: 0271
	50	04	AC D0 00017	MOVL	ERRORMSGDESC, R0	: 0273
	7E		60 3C 0001B	MOVZWL	(R0), -(SP)	:
		04	A0 DD 0001E	PUSHL	4(R0)	: 0272
	00000000G	00	02 FB 00021	CALLS	#2, LNK\$MAPOUT	:
	01	00000000G	00 91 00028 1\$:	CMPB	LNK\$GB_PASS, #1	: 0275
			45 12 0002F	BNEQ	4\$	:
41	67		04 E1 00031	BBC	#4, LNK\$GL_CTLMSK, 4\$	: 0276
			5E DD 00035	PUSHL	SP	: 0282
	53	04	AC D0 00037	MOVL	ERRJRMMSGDESC, R3	:
	7E		63 3C 0003B	MOVZWL	(R3), -(SP)	:
	6E		06 C0 0003E	ADDL2	#6, (SP)	:
	00000000G	00	02 FB 00041	CALLS	#2, LNK\$ALLOBLK	:
	52		6E D0 00048	MOVL	EBLOCK, R2	: 0284
			62 D4 0004B	CLRL	(R2)	:
	04	A2	63 B0 0004D	MOVW	(R3), 4(R2)	: 0285
	50	00000000G	00 D0 00051	MOVL	LNK\$GL_CUROMD, R0	: 0286
			0D 13 00058	BEQL	2\$	:
	51	24	A0 D0 0005A	MOVL	36(R0), LASTBLOCK	: 0288
	61		52 D0 0005E	MOVL	R2, (LASTBLOCK)	: 0289
	24	A0	52 D0 00061	MOVL	R2, 36(R0)	: 0290
			09 11 00065	BRB	3\$	: 0286
	51		66 D0 00067 2\$:	MOVL	LNK\$GL_LASTERR, LASTBLOCK	: 0293
	61		52 D0 0006A	MOVL	R2, (LASTBLOCK)	: 0294
	66		52 D0 0006D	MOVL	R2, LNK\$GL_LASTERR	: 0295
06	A2	04	63 28 00070 3\$:	MOVC3	(R3), 24(R3), 6(R2)	: 0299
	50		01 50 00076 4\$:	MOVL	#1, R0	: 0301



LNK\_HANDLER  
V04=000

F 4  
15-Sep-1984 23:57:09  
14-Sep-1984 12:40:29

VAX-11 Bliss-32 V4.0-742  
[LINKER.SRC]LNKERROUT.B32;1

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LNK  
V04

04 00079

RET

; 0303

; Routine Size: 122 bytes, Routine Base: \$CODE\$ + 0000

.....



LNK\_HANDLER  
V04=000

M 4  
15-Sep-1984 23:57:09 VAX-11 Bliss-32 V4.0-742  
14-Sep-1984 12:40:29 [LINKER.SRC]LNKERROUT.B32;1

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(4)

LNK  
V04

50	04	A2	09	63	E9	0002E	BLBC	LNK\$GB_MAXERCOD, 3\$	0330	
			03	00	EF	00031	EXTZV	#0, #3, 4(R2), R0	0332	
			63	50	90	00037	MOVB	R0, LNK\$GB_MAXERCOD		
			62	02	C2	0003A	SUBL2	#2, (R2)	0334	
				7E	7C	0003D	CLRQ	-(SP)	0336	
				CF	9F	0003F	PUSHAB	LNK\$ERRMSG		
		FF43		52	DD	00043	PUSHL	R2		
		00000000G	00	04	FB	00045	CALLS	#4, SYSS\$PUTMSG		
			62	02	C0	0004C	ADDL2	#2, (R2)	0338	
			04	63	91	0004F	CMPB	LNK\$GB_MAXERCOD, #4	0339	
				22	12	00052	BNEQ	6\$		
		00000000G	00	95	00054	TSTB	LNK\$GB_PASS	0340		
			0D	12	0005A	BNEQ	4\$			
	52	04	A2	10000000	8F	C9	0005C	BISL3	#268435456, 4(R2), R2	
				52	DD	00065	PUSHL	R2		
				06	11	00067	BRB	5\$		
		00000000G	8F	DD	00069	4\$:	PUSHL	#LINS_FATALERROR		
			00	01	FB	0006F	5\$:	CALLS	#1, LNK\$EXIT	
			50	01	D0	00076	6\$:	MOVL	#1, R0	0343
				04	00079		RET		0344	

; Routine Size: 122 bytes. Routine Base: \$CODE\$ + 007A

```

235 0345 1 GLOBAL ROUTINE LNK$FILNAMDSC (IFAB) =
236 0346 2 BEGIN
237 0347 2
238 0348 2 --
239 0349 2 This routine returns the address of a string descriptor for the input fab.
240 0350 2
241 0351 2 INPUTS:
242 0352 2
243 0353 2 IFAB is the address of the fab
244 0354 2
245 0355 2 ROUTINE VALUE:
246 0356 2
247 0357 2 the address of a string descriptor for the file name
248 0358 2
249 0359 2 ---
250 0360 2 MAP
251 0361 2 IFAB : REF BLOCK[,BYTE];
252 0362 2
253 0363 2 BIND
254 0364 2 NAM = .IFAB [FAB$L_NAM] : BBLOCK;
255 0365 2
256 0366 2 OWN
257 0367 2 FILEDESC : BLOCK[DSC$C_S_BLN,BYTE]; ! the string descriptor
258 0368 2
259 0369 2 IF (FILEDESC [DSC$W_LENGTH] = .NAM [NAM$B_RSL]) NEQ 0 ! if resultant name present
260 0370 2 THEN FILEDESC [DSC$A_POINTER] = .NAM [NAM$L_RSA]
261 0371 2 ELSE IF (FILEDESC [DSC$W_LENGTH] = .NAM [NAM$B_ESL]) NEQ 0 ! if expanded name present
262 0372 2 THEN FILEDESC [DSC$A_POINTER] = .NAM [NAM$C_ESA]
263 0373 2 ELSE BEGIN
264 0374 3 FILEDESC [DSC$W_LENGTH] = .IFAB [FAB$B_FNS]; ! use filename string
265 0375 3 FILEDESC [DSC$A_POINTER] = .IFAB [FAB$C_INA]; ! if all else fails
266 0376 2 END;
267 0377 2
268 0378 2 RETURN FILEDESC
269 0379 1 END;

```

!Of LNK\$FILNAMDSC

.PSECT \$OWNS,NOEXE,2

00000 FILEDESC:  
.BLKB 8

.PSECT \$CODE\$,NOWRT,2

			0004 00000	.ENTRY LNK\$FILNAMDSC, Save R2	: 0345
52	00000000'	EF	9E 00002	MOVAB FILEDESC, R2	: 0364
51	04	AC	D0 00009	MOVL IFAB, R1	: 0369
50	28	A1	D0 0000D	MOVL 40(R1), R0	: 0370
62	03	A0	9B 00011	MOVZBW 3(R0), FILEDESC	: 0371
			07 13 00015	BEQL 1\$	
04	A2	04	A0 D0 00017	MOVL 4(R0), FILEDESC+4	
			16 11 0001C	BRB 3\$	
	62	0B	A0 9B 0001E 1\$:	MOVZBW 11(R0), FILEDESC	
			07 13 00022	BEQL 2\$	

04	A2	0C	A0	D0	00024		MOVL	12(R0), FILEDESC+4	: 0372
			09	11	00029		BRB	3\$	: 0374
04	62	34	A1	9B	0002B	2\$:	MOVZBW	52(R1), FILEDESC	: 0375
	A2	2C	A1	D0	0002F		MOVL	44(R1), FILEDESC+4	: 0378
	50		62	9E	00034	3\$:	MOVAB	FILEDESC, R0	: 0379
			04	00037			RET		

: Routine Size: 56 bytes, Routine Base: \$CODE\$ + 00F4

: 270 0380 1  
: 271 0381 0 END ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	9	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	300	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
ABS	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)
\$OWNS	8	NOVEC, WRT, RD, NOEXE, 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	32	0	581	00:01.1
-\$255\$DUA28:[LINKER.OBJ]DATBAS.L32;1	538	7	1	28	00:00.5

COMMAND QUALIFIERS

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

: Size: 300 code + 17 data bytes  
: Run Time: 00:09.1  
: Elapsed Time: 00:25.8  
: Lines/CPU Min: 2503  
: Lexemes/CPU-Min: 20490  
: Memory Used: 73 pages  
: Compilation Complete

0216 AH-BT13A-SE  
VAX/VMS V4.0

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