

EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	T:TTTTTTTTTTTTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEEEEEEEEEEEEE	DDD	TTT
EEE	DDD	TTT
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EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
EEEEEEEEEEEEEEEE	DDDDDDDDDDDDDD	TTT
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```

1 0001 0 %TITLE 'EDT$WRIEDTMSG - write VMSMSG.MSG'
2 0002 0 MODULE EDT$WRIEDTMSG ( ! Write VMSMSG.MSG
3 0003 0 IDENT = 'V04-000', ! File: WRIEDTMSG.B32 Edit: JBS1007
4 0004 0 MAIN = EDT$WRIEDTMSG
5 0005 0 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
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28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1
32 0032 1 ++
33 0033 1 FACILITY: EDT -- The DEC Standard Editor
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This module, WRIEDTMSG.FOR, is a FORTRAN program that writes
38 0038 1 the file VMSMSG.MSG, which is read by the message compiler
39 0039 1 to produce EDT's run-time messages.
40 0040 1
41 0041 1 ENVIRONMENT: Runs at any access mode - AST reentrant
42 0042 1
43 0043 1 AUTHOR: John Sauter, CREATION DATE: 23-Jul-1981
44 0044 1
45 0045 1 MODIFIED BY:
46 0046 1
47 0047 1 1-001 - Original, from BASMSG.FOR, created November 3, 1978, last
48 0048 1 revised September 24, 1979 (version 1-015). JBS 28-Jul-1981
49 0049 1 1-002 - Don't omit the first message. JBS 03-Aug-1981
50 0050 1 1-003 - Change output file name to VMSMSG.MSG. JBS 03-Aug-1981
51 0051 1 1-004 - Fix output file's module name JBS 06-Aug-1981
52 0052 1 1-005 - Recoded in BLISS since VMS doesn't like its components to be
53 0053 1 dependent upon Fortran. JBS 22-Oct-1981
54 0054 1 1-006 - Change output file name to VMSMSG.TMP. BLS 6-May-1983
55 0055 1 1-007 - Correct the module header and trailer. JBS 09-May-1983
56 0056 1 --
57 0057 1

```

```
59 0058 1 %SBTTL 'Declarations'
60 0059 1
61 0060 1 : SWITCHES:
62 0061 1 :
63 0062 1
64 0063 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
65 0064 1
66 0065 1 :
67 0066 1 : LINKAGES:
68 0067 1 :
69 0068 1 : NONE
70 0069 1 :
71 0070 1 : TABLE OF CONTENTS:
72 0071 1 :
73 0072 1 :
74 0073 1 FORWARD ROUTINE
75 0074 1 EDT$WRIEDTMSG, : Write VMSMSG.TMP
76 0075 1 WRITE_FILE, : Actually write the text
77 0076 1 PRINT, : Print a line of text
78 0077 1 HEX_TEXT, : Convert binary to hexadecimal
79 0078 1 PRINTABLE_TEXT; : Convert binary to ASCII, printable
80 0079 1
81 0080 1 :
82 0081 1 : INCLUDE FILES:
83 0082 1 :
84 0083 1
85 0084 1 REQUIRE 'EDT$SRC:PSECTS.REQ'; : Define PSECT declaration macros
86 0189 1
87 0190 1 REQUIRE 'EDT$SRC:SYSSYM.REQ'; : Define system symbols
88 0220 1
89 0221 1 :
90 0222 1 : MACROS:
91 0223 1 :
92 0224 1 : NONE
93 0225 1 :
94 0226 1 : EQUATED SYMBOLS:
95 0227 1 :
96 0228 1 :
97 0229 1 LITERAL
98 0230 1 EDT$K_FAC_NO = 133; : Facility number, for signaling.
99 0231 1 :
100 0232 1 :
101 0233 1 : FIELDS:
102 0234 1 :
103 0235 1 : NONE
104 0236 1 :
105 0237 1 : STRUCTURES:
106 0238 1 :
107 0239 1 : NONE
108 0240 1 :
109 0241 1 : PSECTS:
110 0242 1 :
111 0243 1 DECLARE_PSECTS (EDT); : Declare PSECTs for EDT$ facility
112 0244 1 :
113 0245 1 : OWN STORAGE:
114 0246 1 :
115 0247 1 : NONE
```

```

: 116      0248 1  |
: 117      0249 1  | : EXTERNAL REFERENCES:
: 118      0250 1  | :
: 119      0251 1  | :
: 120      0252 1  | EXTERNAL ROUTINE
: 121      0253 1  |   STR$COPY_DX,      | : Copy a string, by descriptor
: 122      0254 1  |   STR$CONCAT,      | : Concatenate strings
: 123      0255 1  |   LIB$GET_INPUT,  | : Get a line from SYSS$INPUT
: 124      0256 1  |   STR$COPY_R,     | : Copy a string, by reference
: 125      0257 1  |   STR$FREE_DX,    | : Free a dynamic string
: 126      0258 1  |   EDT$MSGTXT;     | : Return the text of a message
: 127      0259 1  |
```

```

129      0260 1 %SBTTL 'Package of macros for string processing'
130      0261 1 !+
131      0262 1 ! Macro to initialize a dynamic descriptor.
132      0263 1 !-
133      0264 1
134      0265 1 MACRO
135      M 0266 1     INIT_DESCRIPTOR (DESCR) =
136      M 0267 1         DESCR [DSC$W_LENGTH] = 0;
137      M 0268 1         DESCR [DSC$B_DTYPE] = DSC$K_DTYPE_T;
138      M 0269 1         DESCR [DSC$B_CLASS] = DSC$K_CLASS_D;
139      M 0270 1         DESCR [DSC$A_POINTER] = 0;
140      0271 1 %
141      0272 1 !<BLF/MACRO>
142      0273 1 !+
143      0274 1 ! Macro to discard a dynamic descriptor.
144      0275 1 !-
145      M 0276 1     DISCARD_DESCRIPTOR (DESCR) =
146      M 0277 1         BEGIN
147      M 0278 1
148      M 0279 1         LOCAL
149      M 0280 1             FREE_STATUS;
150      M 0281 1
151      M 0282 1         FREE_STATUS = STR$FREE1_DX (DESCR);
152      M 0283 1
153      M 0284 1         IF ( NOT .FREE_STATUS) THEN SIGNAL_STOP (.FREE_STATUS);
154      M 0285 1
155      M 0286 1         END;
156      0287 1 %
157      0288 1 !+
158      0289 1 ! Macro to build a text line using FAO. This is a convenience macro.
159      0290 1 !-
160      M 0291 1     BUILD_TEXT_LINE (DESCR, CTL_STRING, FAO_ARGS) =
161      M 0292 1         BEGIN
162      M 0293 1
163      M 0294 1         LOCAL
164      M 0295 1             FAO_STATUS,
165      M 0296 1             COPY_STATUS;
166      M 0297 1
167      M 0298 1         CTL_STR_DSC [DSC$W_LENGTH] = %CHARCOUNT (CTL_STRING);
168      M 0299 1         CTL_STR_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
169      M 0300 1         CTL_STR_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
170      M 0301 1         CTL_STR_DSC [DSC$A_POINTER] = CH$PTR (UPLIT (CTL_STRING));
171      M 0302 1         FAO_STATUS = $FAO T
172      M 0303 1             CTL_STR_DSC,
173      M 0304 1             OUT_LENGTH,
174      M 0305 1             TEMP_STR_DSC,
175      M 0306 1             %REMOVE (FAO_ARGS));
176      M 0307 1
177      M 0308 1         IF ( NOT .FAO_STATUS) THEN SIGNAL_STOP (.FAO_STATUS);
178      M 0309 1
179      M 0310 1         COPY_STATUS = STR$COPY_R (DESCR, OUT_LENGTH, .TEMP_STR_DSC [DSC$A_POINTER]);
180      M 0311 1         .COPY_STATUS
181      M 0312 1         END
182      0313 1 %
183      0314 1 !+
184      0315 1 ! Macro to format and print a line. Errors are returned to the caller.
185      0316 1 ! This is a convenience macro.

```

```
.. 186      0317  1  !-  
.. 187      M 0318  1  PRINT LINE (TEXT, VARS) =  
.. 188      M 0319  1  BEGIN  
.. 189      M 0320  1  
.. 190      M 0321  1  LOCAL  
.. 191      M 0322  1  BUILD_STATUS,  
.. 192      M 0323  1  PRINT_STATUS;  
.. 193      M 0324  1  
.. 194      M 0325  1  BUILD_STATUS = BUILD_TEXT_LINE (LINE_DESC, %STRING (%REMOVE (TEXT)), VARS);  
.. 195      M 0326  1  
.. 196      M 0327  1  IF ( NOT .BUILD_STATUS) THEN RETURN (.BUILD_STATUS);  
.. 197      M 0328  1  
.. 198      M 0329  1  PRINT_STATUS = PRINT (.OUTPUT_RAB, LINE_DESC);  
.. 199      M 0330  1  
.. 200      M 0331  1  IF ( NOT .PRINT_STATUS) THEN RETURN (.PRINT_STATUS);  
.. 201      M 0332  1  
.. 202      M 0333  1  END  
.. 203      M 0334  1  %:  
.. 204      M 0335  1
```

```

206 0336 1 %SBTTL 'EDT$WRIEDTMSG - Write VMSMSG.TMP'
207 0337 1 ROUTINE EDT$WRIEDTMSG ! Write VMSMSG.TMP
208 0338 1 =
209 0339 1
210 0340 1
211 0341 1 ++
212 0342 1 FUNCTIONAL DESCRIPTION:
213 0343 1 This routine writes the file VMSMSG.TMP.
214 0344 1
215 0345 1 CALLING SEQUENCE:
216 0346 1
217 0347 1 ret_status.wlc.v = EDT$WRIEDTMSG ()
218 0348 1
219 0349 1 FORMAL PARAMETERS:
220 0350 1
221 0351 1 NONE
222 0352 1
223 0353 1 IMPLICIT INPUTS:
224 0354 1
225 0355 1 NONE
226 0356 1
227 0357 1 IMPLICIT OUTPUTS:
228 0358 1
229 0359 1 NONE
230 0360 1
231 0361 1 COMPLETION STATUS:
232 0362 1
233 0363 1 $$$_NORMAL Normal successful completion
234 0364 1 Any error from LIB$GET_INPUT or STR$FREE1_DX
235 0365 1
236 0366 1 SIDE EFFECTS:
237 0367 1
238 0368 1 Writes a file.
239 0369 1 Any errors from RMSS$CREATE, RMSS$OPEN, RMSS$CONNECT or RMSS$CLOSE
240 0370 1 are signalled.
241 0371 1
242 0372 1 --
243 0373 1
244 0374 2 BEGIN
245 0375 2
246 0376 2 LOCAL
247 0377 2 OUTPUT_BUFFER : BLOCK [132, BYTE], ! output buffer, for RMS
248 0378 2 OUTPUT_FAB : $FAB_DECL, ! RMS FAB for the output file
249 0379 2 OUTPUT_NAM : $NAM_DECL, ! RMS NAM for the output file
250 0380 2 OUTPUT_RAB : $RAB_DECL, ! RMS RAB for the output file
251 0381 2 OUTPUT_FILE_NAME_DESC : BLOCK [8, BYTE], ! Name of output file
252 0382 2 OUTPUT_RESULT_NAME : BLOCK [NAM$C_MAXRSS, BYTE]; ! Place to store output file name
253 0383 2
254 0384 2
255 0385 2 OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH] = %CHARCOUNT ('VMSMSG');
256 0386 2 OUTPUT_FILE_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
257 0387 2 OUTPUT_FILE_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
258 0388 2 OUTPUT_FILE_NAME_DESC [DSC$A_POINTER] = UPLIT ('VMSMSG');
259 0389 2
260 0390 2 Initialize the FAB, NAM and RAB for the output file
261 0391 2
262 P 0392 2 $FAB_INIT (FAB = OUTPUT_FAB, !

```



```

263 P 0393 2 FAC = (PUT),
264 P P 0394 2 FOP = (OFP, SQO, DFW),
265 P P 0395 2 ORG = SEQ,
266 P P 0396 2 SHR = NIL,
267 P P 0397 2 MRS = 132,
268 P P 0398 2 RAT = CR,
269 P P 0399 2 RFM = VAR,
270 P P 0400 2 FNA = .OUTPUT_FILE_NAME_DESC [DSC$A_POINTER], !
271 P P 0401 2 FNS = .OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH], !
272 P P 0402 2 DNA = UPLIT ('EDT$SRC:.TMP'),
273 P P 0403 2 DNS = %CHARCOUNT ('EDT$SRC:.TMP'),
274 P P 0404 2 NAM = OUTPUT_NAM);
275 P P 0405 2 $NAM INIT (NAM = OUTPUT_NAM,
276 P P 0406 2 RSA = OUTPUT_RESULT_NAME,
277 P P 0407 2 RSS = NAM$C_MAXRSS);
278 P P 0408 2 $RAB INIT (RAB = OUTPUT_RAB,
279 P P 0409 2 RAC = SEQ,
280 P P 0410 2 ROP = WBH,
281 P P 0411 2 USZ = 132,
282 P P 0412 2 UBF = OUTPUT_BUFFER,
283 P P 0413 2 FAB = OUTPUT_FAB);
284 P P 0414 2
285 P P 0415 2 !+ Create the output file, and do the $CONNECT.
286 P P 0416 2 !-
287 P P 0417 2 BEGIN
288 P P 0418 2
289 P P 0419 2 LOCAL
290 P P 0420 2 .STATUS,
291 P P 0421 2 .CONNECT_STATUS;
292 P P 0422 2
293 P P 0423 2 CREATE_STATUS = $CREATE (FAB = OUTPUT_FAB);
294 P P 0424 2
295 P P 0425 2 IF ( NOT .CREATE_STATUS)
296 P P 0426 2 THEN
297 P P 0427 2 SIGNAL STOP (
298 P P 0428 2 SHR$OPENOUT + (EDT$K_FAC_NO*65536) + STS$K_SEVERE, !
299 P P 0429 2 1,
300 P P 0430 2 OUTPUT_FILE_NAME_DESC,
301 P P 0431 2 .OUTPUT_FAB [FAB$L_ST$], .OUTPUT_FAB [FAB$L_STV]);
302 P P 0432 2
303 P P 0433 2 CONNECT_STATUS = $CONNECT (RAB = OUTPUT_RAB);
304 P P 0434 2
305 P P 0435 2 IF ( NOT .CONNECT_STATUS)
306 P P 0436 2 THEN
307 P P 0437 2 SIGNAL STOP (
308 P P 0438 2 SHR$OPENOUT + (EDT$K_FAC_NO*65536) + STS$K_SEVERE, !
309 P P 0439 2 1,
310 P P 0440 2 OUTPUT_FILE_NAME_DESC,
311 P P 0441 2 .OUTPUT_RAB [RAB$L_ST$], .OUTPUT_RAB [RAB$L_STV]);
312 P P 0442 2
313 P P 0443 2 END;
314 P P 0444 2 !+
315 P P 0445 2 !- Point the file name descriptor to the resultant name string.
316 P P 0446 2
317 P P 0447 2 OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH] = .OUTPUT_NAM [NAM$B_RSL];
318 P P 0448 2 OUTPUT_FILE_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
319 P P 0449 2 OUTPUT_FILE_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;

```

```

320 0450 2 OUTPUT_FILE_NAME_DESC [DSC$A_POINTER] = .OUTPUT_NAM [NAM$L_RSA];
321 0451 2
322 0452 2 IF ( NOT WRITE_FILE (OUTPUT_RAB))
323 0453 2 THEN
324 0454 2 SIGNAL_STOP (
325 0455 2 SHR$_WRITEERR + (EDT$K_FAC_NO*65536) + ST$K_SEVERE, !
326 0456 2 |
327 0457 2 | OUTPUT_FILE_NAME_DESC,
328 0458 2 | .OUTPUT_RAB [RAB$L_ST$], .OUTPUT_RAB [RAB$L_STV]);
329 0459 2
330 0460 2 BEGIN
331 0461 2 |
332 0462 2 | - Close the output file.
333 0463 2 |
334 0464 2 LOCAL
335 0465 2 CLOSE_STATUS;
336 0466 2
337 0467 2 CLOSE_STATUS = $CLOSE (FAB = OUTPUT_FAB);
338 0468 2
339 0469 2 IF ( NOT .CLOSE_STATUS)
340 0470 2 THEN
341 0471 2 SIGNAL_STOP (
342 0472 2 SHR$_CLOSEOUT + (EDT$K_FAC_NO*65536) + ST$K_SEVERE, !
343 0473 2 |
344 0474 2 | OUTPUT_FILE_NAME_DESC,
345 0475 2 | .OUTPUT_FAB [FAB$L_ST$], .OUTPUT_FAB [FAB$L_STV]);
346 0476 2
347 0477 2
348 0478 2 END;
349 0479 2 RETURN (SS$_NORMAL);
350 0480 1 END;

```

! End of routine EDT\$WRIEDTMSG

```

.TITLE EDT$WRIEDTMSG EDT$WRIEDTMSG - write VMSMSG.MSG
.IDENT \V04-000\
.PSECT _EDT$CODE,NOWRT, SHR, PIC,2
.ASCII \VMSMSG\<0><0>
.ASCII \EDT$SRC:.TMP\<0>
.EXTRN STR$COPY_DX, STR$CONCAT
.EXTRN LIB$GET_INPUT, STR$COPY_R
.EXTRN STR$FREE1_DX, EDT$MSGTXT
.EXTRN SYSS$CREATE, SYSS$CONNECT
.EXTRN SYSS$CLOSE

```

007C 0000 EDT\$WRIEDTMSG:

```

0050 8F 00 56 00000000G 00 9E 00002 .WORD Save R2,R3,R4,R5,R6 : 0337
SE FD80 CE 9E 00009 MOVAB LIB$STOP, R6
0100 CE 010E0006 8F D0 0000E MOVAB -640(SP), SP : 0385
0104 CE D2 AF 9E 00017 MOVAB #17694726, OUTPUT_FILE_NAME_DESC : 0388
6E 00 2C 0001D MOVAB P.AAA, OUTPUT_FILE_NAME_DESC+4 : 0404
FF2C CD FF2C CD 00024 MOVAB #20483, $RMS_PTR
FF30 CD 20000060 8F B0 00027 MOVAB #536871008, $RMS_PTR+4
8F D0 0002E MOVL

```

0060	BF	00	FF42	CD	2001	8F	80	00037	MOVW	#8193, \$RMS_PTR+22	0407
			FF49	CD	0200	8F	80	0003E	MOVW	#512, \$RMS_PTR+29	
			FF4B	CD		02	90	00045	MOVB	#2, \$RMS_PTR+31	
			FF54	CD	FECC	CD	9E	0004A	MOVAB	OUTPUT_NAM, \$RMS_PTR+40	
			FF58	CD	0104	CE	00	00051	MOVL	OUTPUT_FILE_NAME_DESC+4, \$RMS_PTR+44	
			FF5C	CD	99	AF	9E	00058	MOVAB	P.AAB, \$RMS_PTR+48	
			FF60	CD	0100	CE	90	0005E	MOVB	OUTPUT_FILE_NAME_DESC, \$RMS_PTR+52	
			FF61	CD		0B	90	00065	MOVB	#11, \$RMS_PTR+53	
			FF62	CD	84	8F	9B	0006A	MOVZBW	#132, \$RMS_PTR+54	
				6E		00	2C	00070	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	
					FECC	CD		00077			
					6002	8F	80	0007A	MOVW	#24578, \$RMS_PTR	
			FECC	CD		01	8E	00081	MNEGB	#1, \$RMS_PTR+2	
			FECE	CD		6E	9E	00086	MOVAB	OUTPUT_RESULT_NAME, \$RMS_PTR+4	
0044	8F	00	FED0	CD		00	2C	0008B	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	0413
				6E		00	2C	0008B			
					0108	CE		00092			
			0108	CE	4401	8F	80	00095	MOVW	#17409, \$RMS_PTR	
			010C	CE	0400	8F	3C	0009C	MOVZWL	#1024, \$RMS_PTR+4	
					0126	CE	94	000A3	CLRB	\$RMS_PTR+30	
			0128	CE	84	8F	9B	000A7	MOVZBW	#132, \$RMS_PTR+32	
			012C	CE	FF7C	CD	9E	000AD	MOVAB	OUTPUT_BUFFER, \$RMS_PTR+36	
			FEC4	CD	FF2C	CD	9E	000B4	MOVAB	OUTPUT_FAB, \$RMS_PTR+60	
					FF2C	CD	9F	000BB	PUSHAB	OUTPUT_FAB	0423
		0000000G		00		01	FB	000BF	CALLS	#1, SYS\$CREATE	
				14		50	EB	000C6	BLBS	CREATE_STATUS, 1\$	0425
				7E	FF34	CD	7D	000C9	MOVQ	OUTPUT_FAB+8, -(SP)	0431
					0108	CE	9F	000CE	PUSHAB	OUTPUT_FILE_NAME_DESC	0427
						01	DD	000D2	PUSHL	#1	
					008510A4	8F	DD	000D4	PUSHL	#8720548	0428
		66				05	FB	000DA	CALLS	#5, LIB\$STOP	
					0108	CE	9F	000DD	PUSHAB	OUTPUT_RAB	0433
		0000000G		00		01	FB	000E1	CALLS	#1, SYS\$CONNECT	
				17		50	EB	000E8	BLBS	CONNECT_STATUS, 2\$	0435
					0114	CE	DD	000EB	PUSHL	OUTPUT_RAB+12	0441
					0114	CE	DD	000EF	PUSHL	OUTPUT_RAB+8	
					0108	CE	9F	000F3	PUSHAB	OUTPUT_FILE_NAME_DESC	0437
						01	DD	000F7	PUSHL	#1	
					00851CA4	8F	DD	000F9	PUSHL	#8720548	0438
		66				05	FB	000FF	CALLS	#5, LIB\$STOP	
			0100	CE	FECF	CD	9B	00102	MOVZBW	OUTPUT_NAM+3, OUTPUT_FILE_NAME_DESC	0447
			0102	CE	010E	8F	80	00109	MOVW	#270, OUTPUT_FILE_NAME_DESC+2	0448
			0104	CE	FED0	CD	00	00110	MOVL	OUTPUT_NAM+4, OUTPUT_FILE_NAME_DESC+4	0450
					0108	CE	9F	00117	PUSHAB	OUTPUT_RAB	0452
		0000V		CF		01	FB	0011B	CALLS	#1, WRITE_FILE	
				17		50	EB	00120	BLBS	R0, 3\$	
					0114	CE	DD	00123	PUSHL	OUTPUT_RAB+12	0458
					0114	CE	DD	00127	PUSHL	OUTPUT_RAB+8	
					0108	CE	9F	0012B	PUSHAB	OUTPUT_FILE_NAME_DESC	0454
						01	DD	0012F	PUSHL	#1	
					008510D4	8F	DD	00131	PUSHL	#8720596	0455
		66				05	FB	00137	CALLS	#5, LIB\$STOP	
					FF2C	CD	9F	0013A	PUSHAB	OUTPUT_FAB	0468
		0000000G		00		01	FB	0013E	CALLS	#1, SYS\$CLOSE	
				14		50	EB	00145	BLBS	CLOSE_STATUS, 4\$	0470
				7E	FF34	CD	7D	00148	MOVQ	OUTPUT_FAB+8, -(SP)	0476
					0108	CE	9F	0014D	PUSHAB	OUTPUT_FILE_NAME_DESC	0472
						01	DD	00151	PUSHL	#1	

EDT\$WRIEDTMSG
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG
EDT\$WRIEDTMSG - Write VMSMSG.TMP

J 3
16-Sep-1984 02:18:31
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]WRIEDTMSG.B32;1

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(4)

EDT\$
V04-

0085105C
66
50

8F DD 00153
05 FB 00159
01 D0 0015C 4\$:
04 0015F

PUSHL #8720476
CALLS #5, LIB\$STOP
MOVL #1, R0
RET

: 0473
:
: 0479
: 0480

; Routine Size: 352 bytes, Routine Base: _EDT\$CODE + 0014

; Rc

```

352 0481 1 XSBTTL 'WRITE_FILE - Actually write the file'
353 0482 1 ROUTINE WRITE_FILE (           ! Actually write the file
354 0483 1     OUTPUT_RAB                 ! Where to write each record
355 0484 1     ) =
356 0485 1
357 0486 1 :++
358 0487 1 : FUNCTIONAL DESCRIPTION:
359 0488 1 :
360 0489 1 :     This routine writes each record on the specified RAB.
361 0490 1 :
362 0491 1 : CALLING SEQUENCE:
363 0492 1 :
364 0493 1 :     ret_status.wlc.v = WRITE_FILE (OUTPUT_RAB.mz.r)
365 0494 1 :
366 0495 1 : FORMAL PARAMETERS:
367 0496 1 :
368 0497 1 :     OUTPUT_RAB           RAB onto which to write the text
369 0498 1 :
370 0499 1 : IMPLICIT INPUTS:
371 0500 1 :
372 0501 1 :     NONE
373 0502 1 :
374 0503 1 : IMPLICIT OUTPUTS:
375 0504 1 :
376 0505 1 :     None
377 0506 1 :
378 0507 1 : COMPLETION STATUS:
379 0508 1 :
380 0509 1 :     $$$_NORMAL           Normal successful completion
381 0510 1 :     Any errors from RMS $PUT
382 0511 1 :
383 0512 1 : SIDE EFFECTS:
384 0513 1 :
385 0514 1 :     Writes on the file connect:d to OUTPUT_RAB
386 0515 1 :
387 0516 1 : --
388 0517 1 :
389 0518 2 : BEGIN
390 0519 2 :
391 0520 2 : MAP
392 0521 2 :     OUTPUT_RAB : REF $RAB_DECL;
393 0522 2 :
394 0523 2 : LOCAL
395 0524 2 : :+
396 0525 2 : : Stuff for BUILD_TEXT_LINE
397 0526 2 : :
398 0527 2 : :     CTL_STR_DSC : BLOCK [8, BYTE],
399 0528 2 : :     TEMP_STR_DSC : BLOCK [8, BYTE],
400 0529 2 : :     TEMP_STRING : VECTOR [132, BYTE],
401 0530 2 : :     OUT_LENGTH,
402 0531 2 : :+
403 0532 2 : : Stuff for PRINT_LINE
404 0533 2 : :
405 0534 2 : :     LINE_DESC : BLOCK [8, BYTE],
406 0535 2 : :+
407 0536 2 : : End of stuff for PRINT_LINE
408 0537 2 : :

```

```
409 0538 2 PRINTABLE_DESC : BLOCK [8, BYTE],
410 0539 2 HEX_DESC : BLOCK [8, BYTE],
411 0540 2 TEXT_DESC : BLOCK [8, BYTE],
412 0541 2 NAME_DESC : BLOCK [8, BYTE],
413 0542 2 SEVERITY_DESC : BLOCK [8, BYTE],
414 0543 2 NAME_LENGTH,
415 0544 2 TEXT_LENGTH,
416 0545 2 SEVERITY_LENGTH,
417 0546 2 SEVERITY_ADDR : REF VECTOR [, BYTE];
418 0547 2
419 0548 2 +
420 0549 2 - Set up TEMP_STR_DSC for BUILD_TEXT_LINE
421 0550 2
422 0551 2 TEMP_STR_DSC [DSC$W_LENGTH] = 132;
423 0552 2 TEMP_STR_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
424 0553 2 TEMP_STR_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
425 0554 2 TEMP_STR_DSC [DSC$A_POINTER] = CH$PTR (TEMP_STRING);
426 0555 2 +
427 0556 2 - Set up LINE_DESC for PRINT_LINE, etc.
428 0557 2
429 0558 2 INIT_DESCRIPTOR (LINE_DESC);
430 0559 2 INIT_DESCRIPTOR (PRINTABLE_DESC);
431 0560 2 INIT_DESCRIPTOR (HEX_DESC);
432 0561 2 INIT_DESCRIPTOR (TEXT_DESC);
433 0562 2 INIT_DESCRIPTOR (NAME_DESC);
434 0563 2 INIT_DESCRIPTOR (SEVERITY_DESC);
435 0564 2 +
436 0565 2 - Put out the initial information.
437 0566 2
438 0567 2 PRINT_LINE (<'!!! This file, VMSMSG.TMP, contains the definitions of the EDT', <' '>);
439 0568 2 PRINT_LINE (<'!!! messages for VAX/VMS. This file is read by the MESSAGE compiler', <' '>);
440 0569 2 PRINT_LINE (<'!!! to build an object file containing the EDT messages.', <' '>);
441 0570 2 PRINT_LINE (<'!!!', <' '>);
442 0571 2 PRINT_LINE (<' .TITLE EDT$VMSMSG EDT's message text', <' '>);
443 0572 2 PRINT_LINE (<'!!!', <' '>);
444 0573 2 PRINT_LINE (<' .FACILITY/SYSTEM EDT, !SL', <EDT$K_FAC_NO>);
445 0574 2 +
446 0575 2 - Write a line for each message
447 0576 2
448 0577 2
449 0578 2 INCR CODE FROM 0 TO 4095 DO
450 0579 2 BEGIN
451 0580 2 EDT$MSGTXT (CODE, SEVERITY_DESC, NAME_LENGTH, NAME_DESC, TEXT_LENGTH, TEXT_DESC);
452 0581 2 +
453 0582 2 - If the severity field is blank we are done.
454 0583 2
455 0584 2 SEVERITY_ADDR = .SEVERITY_DESC [DSC$A_POINTER];
456 0585 2
457 0586 2 IF (.SEVERITY_ADDR [0] EQL ' ') THEN EXITLOOP;
458 0587 2
459 0588 2 PRINT_LINE (<'!AS/!AS <!AS>', <NAME_DESC, SEVERITY_DESC, TEXT_DESC>);
460 0589 2 END;
461 0590 2
462 0591 2 +
463 0592 2 - Write out the trailer line
464 0593 2
465 0594 2 PRINT_LINE (<' .END', <' '>);
```

```

: 466      0595  2  !+
: 467      0596  2  !- All done.
: 468      0597  2  !-
: 469      0598  2  DISCARD_DESCRIPTOR (LINE_DESC);
: 470      0599  2  DISCARD_DESCRIPTOR (PRINTABLE_DESC);
: 471      0600  2  DISCARD_DESCRIPTOR (HEX_DESC);
: 472      0601  2  DISCARD_DESCRIPTOR (TEXT_DESC);
: 473      0602  2  DISCARD_DESCRIPTOR (NAME_DESC);
: 474      0603  2  DISCARD_DESCRIPTOR (SEVERITY_DESC);
: 475      0604  2  RETURN (SS$_NORMAL);
: 476      0605  1  END;
! End of routine WRITE_FILE

```

```

56 20 2C 65 6C 69 66 20 73 69 68 54 20 21 21 00174 P.AAC: .ASCII \!! This file, VMSMSG.TMP, contains the d\
74 6E 6F 63 20 2C 50 4D 54 2E 47 53 4D 53 4D 00183
64 20 65 68 74 20 73 6E 69 61 00192
74 20 66 6F 20 73 6E 6F 69 74 69 6E 69 66 65 0019C .ASCII \efinitions of the EDT\<0><0><0>
00 00 00 54 44 45 20 65 68 001AB
72 6F 66 20 73 65 67 61 73 73 65 6D 20 21 21 001B4 P.AAD: .ASCII \!! messages for VAX/VMS. This file is r\
73 69 68 54 20 20 2E 53 4D 56 2F 58 41 56 20 001C3
72 20 73 69 20 65 6C 69 66 20 001D2
53 53 45 4D 20 65 68 74 20 79 62 20 64 61 65 001DC .ASCII \e ad by the MESSAGE compiler\<0>
72 20 65 6C 69 70 6D 6F 63 20 45 47 41 001EB
20 6E 61 20 64 6C 69 75 62 20 6F 74 20 21 21 001F8 P.AAE: .ASCII \!! to build an object file containing th\
6E 6F 63 20 65 6C 69 66 20 74 63 65 6A 62 6F 00207
68 74 20 67 6E 69 6E 69 61 74 00216
2E 73 65 67 61 73 73 65 6D 20 54 44 45 20 65 00220 .ASCII \e EDT messages.\<0>
00 0022F
00 00 21 21 00230 P.AAF: .ASCII \!!\<0><0>
20 45 4C 54 49 54 2E 20 20 20 20 20 20 20 20 00234 P.AAG: .ASCII \ .TITLE EDT$VMSMSG EDT's message \
27 54 44 45 20 47 53 4D 53 4D 56 24 54 44 45 00243
20 65 67 61 73 73 65 6D 20 73 00252
74 78 65 74 0025C .ASCII \text\
00 00 21 21 00260 P.AAH: .ASCII \!!\<0><0>
45 54 53 59 53 2F 59 54 49 4C 49 43 41 46 2E 00264 P.AAI: .ASCII \.FACILITY/SYSTEM EDT, !SL\<0><0><0>
00 00 00 00 00 4C 53 21 20 2C 54 44 45 20 4D 00273
00 00 3E 53 41 21 3C 20 53 41 21 2F 53 41 21 00280 P.AAJ: .ASCII \!S!/AS <!AS>\<0><0><0>
00 0028F
44 4E 45 2E 00290 P.AAK: .ASCII \.END\
.EXTRN SYSS$FAO

```

```

01FC 0000 WRITE_FILE:
WORD Save R2,R3,R4,R5,R6,R7,R8 : 0482
58 0000V CF 9E 00002 MOVAB PRINT, R8
57 0000000G 00 9E 00007 MOVAB STR$FREE1 DX, R7
56 0000000G 00 9E 0000E MOVAB STR$COPY R, R6
55 0000000G 00 9E 00015 MOV SYSS$FAO, R5
54 0000000G 00 9E 0001C MOVAB LIB$STOP, R4
5E FF2C CE 9E 00023 MOVAB -212(SP), SP
F0 AD 010E0084 8F D0 00028 MOVL #17694852, TEMP_STR_DSC : 0551
F4 AD 40 AE 9E 00030 MOVAB TEMP_STRING, TEMP_STR_DSC+4 : 0554
38 AE 020E0000 8F D0 00035 MOVL #34471936, LINE_DESC : 0558
3C AE D4 0003D CLRL LINE_DESC+4
30 AE 020E0000 8F D0 00040 MOVL #34471936, PRINTABLE_DESC : 0559
34 AE D4 00048 CLRL PRINTABLE_DESC+4

```

28	AE	020E0000	8F	DO	0004B	MOVL	#34471936, HEX_DESC	0560
		2C	AE	D4	00053	CLRL	HEX_DESC+4	
20	AE	020E0000	8F	DO	00056	MOVL	#34471936, TEXT_DESC	0561
		24	AE	D4	0005E	CLRL	TEXT_DESC+4	
18	.E	020E0000	8F	DO	00061	MOVL	#34471936, NAME_DESC	0562
		1C	AE	D4	00069	CLRL	NAME_DESC+4	
10	AE	020E0000	8F	DO	0006C	MOVL	#34471936, SEVERITY_DESC	0563
		14	AE	D4	00074	CLRL	SEVERITY_DESC+4	
F8	AD	010E003D	8F	DO	00077	MOVL	#17694787, CTL_STR_DSC	0567
FC	AD	FE5D	CF	9E	0007F	MOVAB	P.AAC, CTL_STR_DSC+4	
			20	DD	00085	PUSHL	#32	
		F0	AD	9F	00087	PUSHAB	TEMP_STR_DSC	
		14	AE	9F	0008A	PUSHAB	OUT_LENGTH	
		F8	AD	9F	0008D	PUSHAB	CTL_STR_DSC	
65			04	FB	00090	CALLS	#4, SYS\$FAO	
05			50	EB	00093	BLBS	FAO_STATUS, 1\$	
			50	DD	00096	PUSHL	FAO_STATUS	
64			01	FB	00098	CALLS	#1, LIB\$STOP	
		F4	AD	DD	0009B	PUSHL	TEMP_STR_DSC+4	
		10	AE	9F	0009E	PUSHAB	OUT_LENGTH	
		40	AE	9F	000A1	PUSHAB	LINE_DESC	
66			03	FB	000A4	CALLS	#3, STR\$COPY_R	
7D			50	E9	000A7	BLBC	BUILD_STATUS, 4\$	
		38	AE	9F	000AA	PUSHAB	LINE_DESC	
52		04	AC	DO	000AD	MOVL	OUTPUT_RAB, R2	
			52	DD	000B1	PUSHL	R2	
68			02	FB	000B3	CALLS	#2, PRINT	
79			50	E9	000B6	BLBC	PRINT_STATUS, 5\$	
F8	AD	010E0043	8F	DO	000B9	MOVL	#17694787, CTL_STR_DSC	0568
FC	AD	FE5B	CF	9E	000C1	MOVAB	P.AAD, CTL_STR_DSC+4	
			20	DD	000C7	PUSHL	#32	
		F0	AD	9F	000C9	PUSHAB	TEMP_STR_DSC	
		14	AE	9F	000CC	PUSHAB	OUT_LENGTH	
		F8	AD	9F	000CF	PUSHAB	CTL_STR_DSC	
65			04	FB	000D2	CALLS	#4, SYS\$FAO	
05			50	EB	000D5	BLBS	FAO_STATUS, 2\$	
			50	DD	000D8	PUSHL	FAO_STATUS	
64			01	FB	000DA	CALLS	#1, LIB\$STOP	
		F4	AD	DD	000DD	PUSHL	TEMP_STR_DSC+4	
		10	AE	9F	000E0	PUSHAB	OUT_LENGTH	
		40	AE	9F	000E3	PUSHAB	LINE_DESC	
66			03	FB	000E6	CALLS	#3, STR\$COPY_R	
79			50	E9	000E9	BLBC	BUILD_STATUS, 7\$	
		38	AE	9F	000EC	PUSHAB	LINE_DESC	
			52	DD	000EF	PUSHL	R2	
68			02	FB	000F1	CALLS	#2, PRINT	
79			50	E9	000F4	BLBC	PRINT_STATUS, 8\$	
F8	AD	010E0037	8F	DO	000F7	MOVL	#17694775, CTL_STR_DSC	0569
FC	AD	FE61	CF	9E	000FF	MOVAB	P.AAE, CTL_STR_DSC+4	
			20	DD	00105	PUSHL	#32	
		F0	AD	9F	00107	PUSHAB	TEMP_STR_DSC	
		14	AE	9F	0010A	PUSHAB	OUT_LENGTH	
		F8	AD	9F	0010D	PUSHAB	CTL_STR_DSC	
65			04	FB	00110	CALLS	#4, SYS\$FAO	
05			50	EB	00113	BLBS	FAO_STATUS, 3\$	
			50	DD	00116	PUSHL	FAO_STATUS	
64			01	FB	00118	CALLS	#1, LIB\$STOP	

		F4	AD	DD	0011B	3\$:	PUSHL	TEMP STR DSC+4
		10	AE	9F	0011E		PUSHAB	OUT_LENGTH
		40	AE	9F	00121		PUSHAB	LINE_DESC
66		03	FB	00124		CALLS	#3, STR\$COPY_R	
79		50	E9	00127	4\$:	BLBC	BUILD STATUS, 10\$	
		38	AE	9F	0012A		PUSHAB	LINE_DESC
		52	DD	0012D		PUSHL	R2	
68		02	FB	0012F		CALLS	#2, PRINT	
79		50	E9	00132	5\$:	BLBC	PRINT STATUS, 11\$	
F8	AD	010E0002	8F	DD	00135		MOVL	#17697722, CTL_STR_DSC
FC	AD	FE5B	CF	9E	0013D		MOVAB	P.AAF, CTL_STR_DSC+4
			20	DD	00143		PUSHL	#32
		F0	AD	9F	00145		PUSHAB	TEMP STR DSC
		14	AE	9F	00148		PUSHAB	OUT_LENGTH
		F8	AD	9F	0014B		PUSHAB	CTL_STR_DSC
65		04	FB	0014E		CALLS	#4, -SYS\$FAO	
05		50	E8	00151		BLBS	FAO STATUS, 6\$	
		50	DD	00154		PUSHL	FAO STATUS	
64		01	FB	00156		CALLS	#1, -LIB\$STOP	
		F4	AD	DD	00159	6\$:	PUSHL	TEMP STR DSC+4
		10	AE	9F	0015C		PUSHAB	OUT_LENGTH
		40	AE	9F	0015F		PUSHAB	LINE_DESC
66		03	FB	00162		CALLS	#3, STR\$COPY_R	
79		50	E9	00165	7\$:	BLBC	BUILD STATUS, 13\$	
		38	AE	9F	00168		PUSHAB	LINE_DESC
		52	DD	0016B		PUSHL	R2	
68		02	FB	0016D		CALLS	#2, PRINT	
79		50	E9	00170	8\$:	BLBC	PRINT STATUS, 14\$	
F8	AD	010E002C	8F	DD	00173		MOVL	#17697764, CTL_STR_DSC
FC	AD	FE21	CF	9E	0017B		MOVAB	P.AAG, CTL_STR_DSC+4
			20	DD	00181		PUSHL	#32
		F0	AD	9F	00183		PUSHAB	TEMP STR DSC
		14	AE	9F	00186		PUSHAB	OUT_LENGTH
		F8	AD	9F	00189		PUSHAB	CTL_STR_DSC
65		04	FB	0018C		CALLS	#4, -SYS\$FAO	
05		50	E8	0018F		BLBS	FAO STATUS, 9\$	
		50	DD	00192		PUSHL	FAO STATUS	
64		01	FB	00194		CALLS	#1, -LIB\$STOP	
		F4	AD	DD	00197	9\$:	PUSHL	TEMP STR DSC+4
		10	AE	9F	0019A		PUSHAB	OUT_LENGTH
		40	AE	9F	0019D		PUSHAB	LINE_DESC
66		03	FB	001A0		CALLS	#3, STR\$COPY_R	
78		50	E9	001A3	10\$:	BLBC	BUILD STATUS, 16\$	
		38	AE	9F	001A6		PUSHAB	LINE_DESC
		52	DD	001A9		PUSHL	R2	
68		02	FB	001AB		CALLS	#2, PRINT	
78		50	E9	001AE	11\$:	BLBC	PRINT STATUS, 17\$	
F8	AD	010E0002	8F	DD	001B1		MOVL	#17697722, CTL_STR_DSC
FC	AD	FE0F	CF	9E	001B9		MOVAB	P.AAH, CTL_STR_DSC+4
			20	DD	001BF		PUSHL	#32
		F0	AD	9F	001C1		PUSHAB	TEMP STR DSC
		14	AE	9F	001C4		PUSHAB	OUT_LENGTH
		F8	AD	9F	001C7		PUSHAB	CTL_STR_DSC
65		04	FB	001CA		CALLS	#4, -SYS\$FAO	
05		50	E8	001CD		BLBS	FAO STATUS, 12\$	
		50	DD	001D0		PUSHL	FAO STATUS	
64		01	FB	001D2		CALLS	#1, -LIB\$STOP	

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		F4	AD	DD	001D5	12\$:	PUSHL	TEMP_STR_DSC+4	
		10	AE	9F	001D8		PUSHAB	OUT_LENGTH	
		40	AE	9F	001DB		PUSHAB	LINE_DESC	
66		03	FB	001DE		CALLS	#3, STR\$COPY_R		
48		50	E9	001E1	13\$:	BLBC	BUILD_STATUS, 17\$		
		38	AE	9F	001E4		PUSHAB	LINE_DESC	
		52	DD	001E7		PUSHL	R2		
68		02	FB	001E9		CALLS	#2, PRINT		
3D		50	E9	001EC	14\$:	BLBC	PRINT_STATUS, 17\$		
F8	AD	010E0019	8F	D0	001EF		MOVL	#17694745, CTL_STR_DSC	0573
FC	AD	FDD5	CF	9E	001F7		MOVAB	P.AAJ, CTL_STR_DSC+4	
		7E	85	8F	9A	001FD	MOVZBL	#133, -(SPT)	
			F0	AD	9F	00201	PUSHAB	TEMP_STR_DSC	
			14	AE	9F	00204	PUSHAB	OUT_LENGTH	
			F8	AD	9F	00207	PUSHAB	CTL_STR_DSC	
65		04	FB	0020A		CALLS	#4, SYS\$FAO		
05		50	E8	0020D		BLBS	FAO_STATUS, 15\$		
		50	DD	00210		PUSHL	FAO_STATUS		
64		01	FB	00212		CALLS	#1, LIB\$STOP		
		F4	AD	DD	00215	15\$:	PUSHL	TEMP_STR_DSC+4	
		10	AE	9F	00218		PUSHAB	OUT_LENGTH	
		40	AE	9F	0021B		PUSHAB	LINE_DESC	
66		03	FB	0021E		CALLS	#3, STR\$COPY_R		
72		50	E9	00221	16\$:	BLBC	BUILD_STATUS, 20\$		
		38	AE	9F	00224		PUSHAB	LINE_DESC	
		52	DD	00227		PUSHL	R2		
68		02	FB	00229		CALLS	#2, PRINT		
67		50	E9	0022C	17\$:	BLBC	PRINT_STATUS, 20\$		
		08	AE	D4	0022F		CLRL	CODE	0578
		20	AE	9F	00232	18\$:	PUSHAB	TEXT_DESC	0580
		04	AE	9F	00235		PUSHAB	TEXT_LENGTH	
		20	AE	9F	00238		PUSHAB	NAME_DESC	
		10	AE	9F	0023B		PUSHAB	NAME_LENGTH	
		20	AE	9F	0023E		PUSHAB	SEVERITY_DESC	
		1C	AE	9F	00241		PUSHAB	CODE	
00000000G	00	06	FB	00244		CALLS	#6, EDT\$MSGTXT		
	53	14	AE	D0	0024B		MOVL	SEVERITY_DESC+4, SEVERITY_ADDR	0584
	20	63	91	0024F		CMPB	(SEVERITY_ADDR), #32		0586
		4E	13	00252		BEQL	21\$		
F8	AD	010E0C0D	8F	D0	00254		MOVL	#17694733, CTL_STR_DSC	0588
FC	AD	FD8C	CF	9E	0025C		MOVAB	P.AAJ, CTL_STR_DSC+4	
		20	AE	9F	00262		PUSHAB	TEXT_DESC	
		14	AE	9F	00265		PUSHAB	SEVERITY_DESC	
		20	AE	9F	00268		PUSHAB	NAME_DESC	
		F0	AD	9F	0026B		PUSHAB	TEMP_STR_DSC	
		1C	AE	9F	0026E		PUSHAB	OUT_LENGTH	
		F8	AD	9F	00271		PUSHAB	CTL_STR_DSC	
65		06	FB	00274		CALLS	#6, SYS\$FAO		
05		50	E8	00277		BLBS	FAO_STATUS, 19\$		
		50	DD	0027A		PUSHL	FAO_STATUS		
64		01	FB	0027C		CALLS	#1, LIB\$STOP		
		F4	AD	DD	0027F	19\$:	PUSHL	TEMP_STR_DSC+4	
		10	AE	9F	00282		PUSHAB	OUT_LENGTH	
		40	AE	9F	00285		PUSHAB	LINE_DESC	
66		03	FB	00288		CALLS	#3, STR\$COPY_R		
4F		50	E9	0028B		BLBC	BUILD_STATUS, 23\$		
		38	AE	9F	0028E		PUSHAB	LINE_DESC	

90	08	AE	00000FFF	8F	F3	00299	20\$:	AOBLEQ	#4095, CODE, 18\$	0578
	F8	AD	010E0G04	8F	DD	002A2	21\$:	MOVL	#17694724, CTL_STR_DSC	0594
	FC	AD	FD4E	CF	9E	002AA		MOVAB	P.AAK, CTL_STR_DSC+4	
				20	DD	002B0		PUSHL	#32	
				F0	AD	9F	002B2	PUSHAB	TEMP_STR_DSC	
				14	AE	9F	002B5	PUSHAB	OUT_LENGTH	
				F8	AD	9F	002B8	PUSHAB	CTL_STR_DSC	
	65			04	FB	002BB		CALLS	#4, -SYS\$FAO	
	05			50	EB	002BE		BLBS	FAO_STATUS, 22\$	
				50	DD	002C1		PUSHL	FAO_STATUS	
	64			01	FB	002C3		CALLS	#1, -LIB\$STOP	
				F4	AD	DD	002C6	22\$:	PUSHL	TEMP_STR_DSC+4
				10	AE	9F	002C9	PUSHAB	OUT_LENGTH	
				40	AE	9F	002CC	PUSHAB	LINE_DESC	
	66			03	FB	002CF		CALLS	#3, STR\$COPY_R	
	62			50	E9	002D2		BLBC	BUILD_STATUS, 30\$	
				38	AE	9F	002D5	PUSHAB	LINE_DESC	
				52	DD	002D8		PUSHL	R2	
	68			02	FB	002DA		CALLS	#2, PRINT	
	57			50	E9	002DD	23\$:	BLBC	PRINT_STATUS, 30\$	
				38	AE	9F	002E0	PUSHAB	LINE_DESC	0598
	67			01	FB	002E3		CALLS	#1, STR\$FREE1 DX	
	05			50	EB	002E6		BLBS	FREE_STATUS, 24\$	
				50	DD	002E9		PUSHL	FREE_STATUS	
	64			01	FB	002EB		CALLS	#1, LIB\$STOP	
				30	AE	9F	002EE	24\$:	PUSHAB	PRINTABLE_DESC
	67			01	FB	002F1		CALLS	#1, STR\$FREE1 DX	0599
	05			50	EB	002F4		BLBS	FREE_STATUS, 25\$	
				50	DD	002F7		PUSHL	FREE_STATUS	
	64			01	FB	002F9		CALLS	#1, LIB\$STOP	
				28	AE	9F	002FC	25\$:	PUSHAB	HEX_DESC
	67			01	FB	002FF		CALLS	#1, -STR\$FREE1 DX	0600
	05			50	EB	00302		BLBS	FREE_STATUS, 26\$	
				50	DD	00305		PUSHL	FREE_STATUS	
	64			01	FB	00307		CALLS	#1, LIB\$STOP	
				20	AE	9F	0030A	26\$:	PUSHAB	TEXT_DESC
	67			01	FB	0030D		CALLS	#1, STR\$FREE1 DX	0601
	05			50	EB	00310		BLBS	FREE_STATUS, 27\$	
				50	DD	00313		PUSHL	FREE_STATUS	
	64			01	FB	00315		CALLS	#1, LIB\$STOP	
				18	AE	9F	00318	27\$:	PUSHAB	NAME_DESC
	67			01	FB	0031B		CALLS	#1, STR\$FREE1 DX	0602
	05			50	EB	0031E		BLBS	FREE_STATUS, 28\$	
				50	DD	00321		PUSHL	FREE_STATUS	
	64			01	FB	00323		CALLS	#1, LIB\$STOP	
				10	AE	9F	00326	28\$:	PUSHAB	SEVERITY_DESC
	67			01	FB	00329		CALLS	#1, STR\$FREE1 DX	0603
	05			50	EB	0032C		BLBS	FREE_STATUS, 29\$	
				50	DD	0032F		PUSHL	FREE_STATUS	
	64			01	FB	00331		CALLS	#1, LIB\$STOP	
	50			01	DD	00334	29\$:	MOVL	#1, R0	0604
				04	DD	00337	30\$:	RET		0605

; Routine Size: 824 bytes, Routine Base: _EDT\$CODE + 0294

EDT\$WRIEDTMSG
V04-000

EDT\$WRIEDTMSG - write VM\$MSG.MSG
WRITE_FILE - Actually write the file

⁴
~~16-Sep-1984~~ 02:18:31
14-Sep-1984 12:25:55

YAX-11 Bliss-32 V4.0-742
[EDT.SRC]WRIEDTMSG.B32;1

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(5)

EDT\$
V04-

.....

```

: 478 0606 1 XSBTTL 'PRINT - print a text line on a file'
: 479 0607 1 ROUTINE PRINT (                               ! Print a text line on a file
: 480 0608 1   RAB_ADDR,                                   ! RAB onto which to print the line
: 481 0609 1   TEXT_LINE,                                ! Descriptor of the line to print
: 482 0610 1   ) =
: 483 0611 1
: 484 0612 1 |++
: 485 0613 1 |FUNCTIONAL DESCRIPTION:
: 486 0614 1 |
: 487 0615 1 |   This routine interfaces to RMS to print a line of text.
: 488 0616 1 |
: 489 0617 1 |CALLING SEQUENCE:
: 490 0618 1 |
: 491 0619 1 |   ret_status.wlc.v = PRINT (RAB_ADDR.mz.r, TEXT_LINE.rt.dx)
: 492 0620 1 |
: 493 0621 1 |FORMAL PARAMETERS:
: 494 0622 1 |
: 495 0623 1 |   RAB_ADDR                               Pointer to the RAB onto which to print the line of text
: 496 0624 1 |   TEXT_LINE                             Descriptor for the line of text to be printed.
: 497 0625 1 |
: 498 0626 1 |IMPLICIT INPUTS:
: 499 0627 1 |
: 500 0628 1 |   NONE
: 501 0629 1 |
: 502 0630 1 |IMPLICIT OUTPUTS:
: 503 0631 1 |
: 504 0632 1 |   NONE
: 505 0633 1 |
: 506 0634 1 |COMPLETION STATUS:
: 507 0635 1 |
: 508 0636 1 |   SSS_NORMAL      Normal successful completion
: 509 0637 1 |   All RMS errors are returned to the caller, so that they can be
: 510 0638 1 |   signalled with the file name.
: 511 0639 1 |
: 512 0640 1 |SIDE EFFECTS:
: 513 0641 1 |
: 514 0642 1 |   Does a $PUT to the RAB.
: 515 0643 1 |
: 516 0644 1 |--
: 517 0645 1 |
: 518 0646 2 |   BEGIN
: 519 0647 2 |
: 520 0648 2 |   MAP
: 521 0649 2 |     RAB_ADDR : REF $RAB DECL,
: 522 0650 2 |     TEXT_LINE : REF BLOCK [8, BYTE];
: 523 0651 2 |
: 524 0652 2 |   LOCAL
: 525 0653 2 |     PUT_STATUS;
: 526 0654 2 |
: 527 0655 2 | |++
: 528 0656 2 | |   Fill in the RAB fields.
: 529 0657 2 | |
: 530 0658 2 | |   RAB_ADDR [RAB$W_RSZ] = .TEXT_LINE [DSC$W_LENGTH];
: 531 0659 2 | |   RAB_ADDR [RAB$L_RBF] = .TEXT_LINE [DSC$A_POINTER];
: 532 0660 2 | |
: 533 0661 2 | |++
: 534 0662 2 | |   Now do the $PUT
: 534 0662 2 | |

```

```

: 535      0663 2   PUT_STATUS = $PUT (RAB = .RAB_ADDR);
: 536      0664 2
: 537      0665 2   IF ( NOT .PUT_STATUS) THEN RETURN (.PUT_STATUS);
: 538      0666 2
: 539      0667 2   RETURN (SS$NORMAL);
: 540      0668 1   END;
                                ! End of routine PRINT

```

```

                                .EXTRN  SYSSPUT
                                0000 00000 PRINT:
                                51      04  AC  D0 00002 .WORD  Save nothing
                                50      08  AC  D0 00006 .WORD  RAB_ADDR, R1
                                22  A1    60  B0 0000A .WORD  TEXT_LINE, R0
                                28  A1    04  A0 D0 0000E .WORD  (R0), 34(R1)
                                00000000G 00  51  DD 00013 .WORD  4(R0), 40(R1)
                                03      01  FB 00015 .WORD  R1
                                50      50  E9 0001C .WORD  #1, SYSSPUT
                                50      01  D0 0001F .WORD  PUT_STATUS, 1$
                                04 00022 1$: .WORD  #1, R0
                                RET
                                : 0607
                                : 0658
                                :
                                : 0659
                                : 0663
                                :
                                : 0665
                                : 0667
                                : 0668

```

: Routine Size: 35 bytes, Routine Base: _EDT\$CODE + 05CC

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: 542 0669 1 %SBTTL 'HEX_TEXT - Return a binary string in hexadecimal'
: 543 0670 1 ROUTINE HEX_TEXT (
: 544 0671 1     OUTPUT_DESC,      | Return a binary string in hex
: 545 0672 1     INPUT_LEN,    | Descriptor to receive the hex
: 546 0673 1     INPUT_ADDR,  | Number of input bytes
: 547 0674 1     ) =        | Address of start of input
: 548 0675 1
: 549 0676 1
: 550 0677 1 +-+
: 551 0678 1 FUNCTIONAL DESCRIPTION:
: 552 0679 1     This routine converts an arbitrary string of bytes into hex, so it
: 553 0680 1     can be printed.  Early bytes are put to the right of later bytes.
: 554 0681 1
: 555 0682 1 CALLING SEQUENCE:
: 556 0683 1
: 557 0684 1     status.wlc.v = HEX_TEXT (OUTPUT_desc.wt.dx, INPUT_LEN.rl.v, INPUT_ADDR,ra.v)
: 558 0685 1
: 559 0686 1 FORMAL PARAMETERS:
: 560 0687 1
: 561 0688 1     output_desc      Where the result text is stored.
: 562 0689 1     input_len        Number of bytes of input
: 563 0690 1     input_addr     Address of first input byte
: 564 0691 1
: 565 0692 1 IMPLICIT INPUTS:
: 566 0693 1
: 567 0694 1     NONE
: 568 0695 1
: 569 0696 1 IMPLICIT OUTPUTS:
: 570 0697 1
: 571 0698 1     NONE
: 572 0699 1
: 573 0700 1 COMPLETION STATUS:
: 574 0701 1
: 575 0702 1     $$$_NORMAL      Normal successful completion
: 576 0703 1     Any errors from STR$CONCAT
: 577 0704 1     Any errors from STR$COPY_DX
: 578 0705 1
: 579 0706 1 SIDE EFFECTS:
: 580 0707 1
: 581 0708 1     Calls STR$CONCAT and STR$COPY_DX, thus manipulating string storage.
: 582 0709 1
: 583 0710 1 --
: 584 0711 1
: 585 0712 2 BEGIN
: 586 0713 2
: 587 0714 2 MAP
: 588 0715 2     INPUT_ADDR : REF VECTOR [ , BYTE],
: 589 0716 2     OUTPUT_DESC : REF BLOCK [8, BYTE];
: 590 0717 2
: 591 0718 2 LOCAL
: 592 0719 2     INTER_DESC : BLOCK [8, BYTE],
: 593 0720 2     DIGIT_DESC : BLOCK [8, BYTE],
: 594 0721 2     DIGIT,
: 595 0722 2     STATUS;
: 596 0723 2
: 597 0724 2 INIT_DESCRIPTOR (INTER_DESC);
: 598 0725 2 DIGIT_DESC [DSC$W_LENGTH] = 1;
```

```

599 0726 2 DIGIT_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
600 0727 2 DIGIT_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
601 0728 2 DIGIT_DESC [DSC$A_POINTER] = DIGIT;
602 0729 2
603 0730 2 INCR CHAR_NO FROM 1 TO .INPUT_LEN DO
604 0731 2 BEGIN
605 0732 2
606 0733 2 LOCAL
607 0734 2 CHAR;
608 0735 2
609 0736 2 CHAR = .INPUT_ADDR [.CHAR_NO - 1];
610 0737 2 DIGIT = (.CHAR AND 15) + '0';
611 0738 2
612 0739 2 IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
613 0740 2
614 0741 2 STATUS = STR$CONCAT (INTER_DESC, DIGIT_DESC, INTER_DESC);
615 0742 2
616 0743 2 IF ( NOT .STATUS) THEN RETURN (.STATUS);
617 0744 2
618 0745 2 DIGIT = (.CHAR^-4) + '0';
619 0746 2
620 0747 2 IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
621 0748 2
622 0749 2 STATUS = STR$CONCAT (INTER_DESC, DIGIT_DESC, INTER_DESC);
623 0750 2
624 0751 2 IF ( NOT .STATUS) THEN RETURN (.STATUS);
625 0752 2
626 0753 2 END;
627 0754 2
628 0755 2 STATUS = STR$COPY DX (.OUTPUT_DESC, INTER_DESC);
629 0756 2 DISCARD_DESCRIPTOR (INTER_DESC);
630 0757 2 RETURN (.STATUS);
631 0758 1 END;
! End of routine HEX_TEXT

```

003C 0000 HEX_TEXT:

					.WORD	Save R2,R3,R4,R5	: 0670	
	55	00000000G	00	9E 00002	MOVAB	STR\$CONCAT, R5		
	5E		14	C2 00009	SUBL2	#20, SP		
	0C	AE 020E0000	8F	D0 0000C	MOVL	#34471936, INTER_DESC	: 0724	
		10	AE	D4 00014	CLRL	INTER_DESC+4		
	04	AE 010E0001	8F	D0 00017	MOVL	#17694721, DIGIT_DESC	: 0725	
	08	AE	6E	9E 0001F	MOVAB	DIGIT, DIGIT_DESC+4	: 0728	
			53	D4 00023	CLRL	CHAR_NO	: 0736	
			4E	11 00025	BRB	4\$		
	50	53	0C	AC C1 00027	1\$:	ADDL3	INPUT_ADDR, CHAR_NO, R0	
		52	FF	A0 9A 0002C		MOVZBL	-1(R0), CHAR	
6E	52	04		00 EF 00030		EXTZV	#0, #4, CHAR, DIGIT	: 0737
		6E		30 C0 00035		ADDL2	#48, DIGIT	
		39		6E D1 00038		CMPL	DIGIT, #57	: 0739
				03 15 0003B		BLFQ	2\$	
		6E		07 C0 0003D		ADDL2	#7, DIGIT	
			0C	AE 9F 00040	2\$:	PUSHAB	INTER_DESC	: 0741
		08	AE	9F 00043		PUSHAB	DIGIT_DESC	

	65	14	AE	9F	00046	PUSHAB	INTER_DESC	:	
	54		03	FB	00049	CALLS	#3, STR\$CONCAT	:	
	4E		50	D0	0004C	MOVL	R0, STATUS	:	
52	52	FC	54	E9	0004F	BLBC	STATUS, 5\$:	0743
	6E		8F	78	00052	ASHL	#-4, CHAR, R2	:	0745
	39	30	A2	9E	00057	MOVAB	48(R2), DIGIT	:	
			6E	D1	0005B	CPL	DIGIT, #57	:	0747
			03	15	0005E	BLEQ	3\$:	
	6E		07	C0	00060	ADDL2	#7, DIGIT	:	
		0C	AE	9F	00063	PUSHAB	INTER_DESC	:	0749
		08	AE	9F	00066	PUSHAB	DIGIT_DESC	:	
		14	AE	9F	00069	PUSHAB	INTER_DESC	:	
	65		03	FB	0006C	CALLS	#3, STR\$CONCAT	:	
	54		50	D0	0006F	MOVL	R0, STATUS	:	
AD	2B		54	E9	00072	BLBC	STATUS, 5\$:	0751
	53	08	AC	F3	00075	AOBLEQ	IN\$JT_LEN, CHAR_NO, 1\$:	0750
		0C	AE	9F	0007A	PUSHAB	INTER_DESC	:	0755
		04	AC	DD	0007D	PUSHL	OUTPUT_DESC	:	
00000000G	00		02	FB	00080	CALLS	#2, STR\$COPY_DX	:	
	54		50	D0	00087	MOVL	R0, STATUS	:	
		0C	AE	9F	0008A	PUSHAB	INTER_DESC	:	0756
00000000G	00		01	FB	0008D	CALLS	#1, STR\$FREE1_DX	:	
	09		50	EB	00094	BLBS	FREE_STATUS, 5\$:	
			50	DD	00097	PUSHL	FREE_STATUS	:	
00000000G	00		01	FB	00099	CALLS	#1, [IB\$STOP	:	
	50		54	D0	000A0	MOVL	STATUS, R0	:	0757
			04	000A3		RET		:	0758

; Routine Size: 164 bytes, Routine Base: _EDT\$CODE + 05EF

ModL

FPSL
VAX1
SYS

```
633 0759 1 %SBTTL 'PRINTABLE_TEXT - Return a binary string in ASCII, printable'
634 0760 1 ROUTINE PRINTABLE_TEXT (
635 0761 1     OUTPUT_DESC,      Return a binary string in printable ASCII
636 0762 1     INPUT_LEN,      Descriptor to receive the text
637 0763 1     INPUT_ADDR,    Number of input bytes
638 0764 1     ) =          Address of start of input
639 0765 1
640 0766 1 ++
641 0767 1 FUNCTIONAL DESCRIPTION:
642 0768 1
643 0769 1     This routine converts an arbitrary string of bytes into ASCII, representing
644 0770 1     unprintable characters in hexadecimal so the result can be printed.
645 0771 1
646 0772 1 CALLING SEQUENCE:
647 0773 1
648 0774 1     status.wlc.v = PRINTABLE_TEXT (OUTPUT_desc.wt.dx, INPUT_LEN.rl.v, INPUT_ADDR.ra.v)
649 0775 1
650 0776 1 FORMAL PARAMETERS:
651 0777 1
652 0778 1     OUTPUT_DESC      Where the result text is stored.
653 0779 1     INPUT_LEN        Number of bytes of input
654 0780 1     INPUT_ADDR       Address of first input byte
655 0781 1
656 0782 1 IMPLICIT INPUTS:
657 0783 1
658 0784 1     NONE
659 0785 1
660 0786 1 IMPLICIT OUTPUTS:
661 0787 1
662 0788 1     NONE
663 0789 1
664 0790 1 COMPLETION STATUS:
665 0791 1
666 0792 1     $$$_NORMAL      Normal successful completion
667 0793 1     Any errors from STR$CONCAT
668 0794 1     Any errors from STR$COPY_DX
669 0795 1
670 0796 1 SIDE EFFECTS:
671 0797 1
672 0798 1     Calls STR$CONCAT and STR$COPY_DX, thus manipulating string storage.
673 0799 1
674 0800 1 --
675 0801 1
676 0802 2 BEGIN
677 0803 2
678 0804 2 MAP
679 0805 2     INPUT_ADDR : REF VECTOR [, BYTE],
680 0806 2     OUTPUT_DESC : REF BLOCK [8, BYTE];
681 0807 2
682 0808 2 LOCAL
683 0809 2     INTER_DESC : BLOCK [8, BYTE],
684 0810 2     CHAR_DESC  : BLOCK [8, BYTE],
685 0811 2     CHAR_REP   : VECTOR [4, BYTE],
686 0812 2     STATOS;
687 0813 2
688 0814 2     INIT_DESCRIPTOR (INTER_DESC);
689 0815 2     CHAR_DESC [DSC$W_LENGTH] = 1;
```

DEF

```
690 0816 2 CHAR_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;  
691 0817 2 CHAR_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;  
692 0818 2 CHAR_DESC [DSC$A_POINTER] = CHAR_REP [0];  
693 0819 2  
694 0820 2 INCR CHAR_NO FROM 1 TO .INPUT_LEN DO  
695 0821 3 BEGIN  
696 0822 3  
697 0823 3 LOCAL  
698 0824 3 CHAR;  
699 0825 3  
700 0826 3 CHAR = .INPUT_ADDR [.CHAR_NO - 1];  
701 0827 3  
702 0828 4 IF ((.CHAR GEQ %X'20') AND  
703 0829 4 (.CHAR LSS %X'7F') AND  
704 0830 4 (.CHAR NEQ '<') AND  
705 0831 4 (.CHAR NEQ '''))  
706 0832 3 THEN  
707 0833 4 BEGIN  
708 0834 4 | + Show character as itself.  
709 0835 4 | -  
710 0836 4 CHAR_REP [0] = .CHAR;  
711 0837 4 CHAR_DESC [DSC$W_LENGTH] = 1;  
712 0838 4 END  
713 0839 4 ELSE  
714 0840 3 BEGIN  
715 0841 4 | +  
716 0842 4 | The character is not printable. Represent it by <>. To avoid  
717 0843 4 | ambiguity, '<' and '' are also represented this way. Control characters  
718 0844 4 | SOH through SUB are represented by <^letter>; others characters by <hex>.  
719 0845 4 | -  
720 0846 4 CHAR_REP [0] = '<';  
721 0847 4  
722 0848 4 IF (((.CHAR + %X'40') GEQ 'A') AND ((.CHAR + %X'40') LEQ 'Z'))  
723 0849 5 THEN  
724 0850 4 BEGIN  
725 0851 5 CHAR_REP [1] = '^';  
726 0852 5 CHAR_REP [2] = .CHAR + %X'40';  
727 0853 5 END  
728 0854 5 ELSE  
729 0855 4 BEGIN  
730 0856 5 LOCAL  
731 0857 5 DIGIT;  
732 0858 5  
733 0859 5 DIGIT = (.CHAR^-4) + '0';  
734 0860 5  
735 0861 5 IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';  
736 0862 5  
737 0863 5 CHAR_REP [1] = .DIGIT;  
738 0864 5 DIGIT = (.CHAR AND 15) + '0';  
739 0865 5  
740 0866 5 IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';  
741 0867 5  
742 0868 5 CHAR_REP [2] = .DIGIT;  
743 0869 5  
744 0870 5 END;  
745 0871 4  
746 0872 4
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VAX

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```
CHAR_REP [3] = '>';
CHAR_DESC [DSC$W_LENGTH] = 4;
END;

STATUS = STR$CONCAT (INTER_DESC, INTER_DESC, CHAR_DESC);
IF ( NOT .STATUS) THEN RETURN (.STATUS);
END;

STATUS = STR$COPY_DX (.OUTPUT_DESC, INTER_DESC);
DISCARD_DESCRIPTOR (INTER_DESC);
RETURN (.STATUS);
END;

! End of routine PRINTABLE_TEXT
```

000C 00000 PRINTABLE_TEXT:

					WORD	Save R2,R3	0760					
					SUBL2	#20, SP						
	0C	AE	020E0000	8F	D0	00005						
					10	AE	D4	0000D		MOV	#34471936, INTER_DESC	0814
	04	AE	010E0001	8F	D0	00010				CLRL	INTER_DESC+4	
	08	AE		6E	9E	00018				MOV	#17694721, CHAR_DESC	0815
					52	D4	0001C			MOVAB	CHAR_REP, CHAR_DESC+4	0818
					0090	31	0001E			CLRL	CHAR_NO	0826
50		52		OC	AC	C1	00021	1\$:		BRW	7\$	
		51		FF	A0	9A	00026			ADDL3	INPUT_ADDR, CHAR_NO, R0	
		20			51	D1	0002A			MOVZBL	-1(R0), CHAR	
					1C	19	0002D			CPL	CHAR, #32	0828
	0000007F	8F			51	D1	0002F			BLSS	2\$	
					13	18	00036			CPL	CHAR, #127	0829
		3C			51	D1	00038			BGEQ	2\$	
					0E	13	0003B			CPL	CHAR, #60	0830
		22			51	D1	0003D			BEQL	2\$	
					09	13	00040			CPL	CHAR, #34	0831
		6E			51	90	00042			BEQ	2\$	
	04	AE			01	B0	00045			MOVAB	CHAR, CHAR_REP	0837
					50	11	00049			MJVW	#1, CHAR_DESC	0838
		6E			3C	90	0004B	2\$:		BRB	6\$	0828
		50		40	A1	9E	0004E			MOV	#60, CHAR_REP	0847
	00000041	8F			50	D1	00052			MOVAB	64(R1), R0	0849
					10	19	00059			CPL	R0, #65	
	0000005A	8F			50	D1	0005B			BLSS	3\$	
					07	14	00062			CPL	R0, #90	
	01	AE	5E		8F	90	00064			BGTR	3\$	
					24	11	00069			MOV	#94, CHAR_REP+1	0852
50		51	FC		8F	78	0006B	3\$:		BRB	5\$	0853
					30	C0	00070			ASHL	#-4, CHAR, R0	0861
		39			50	D1	00073			ADDL2	#48, DIGIT	
					03	15	00076			CPL	DIGIT, #57	0863
		50			07	C0	00078			BLEQ	4\$	
	51	01	AE		55	90	0007B	4\$:		ADDL2	#7, DIGIT	
					50	EF	0007F			MOV	DIGIT, CHAR_REP+1	0865
50		04			50	EF	0007F			EXTZV	#0, #4, CHAR, DIGIT	0866
		50			30	C0	00084			ADDL2	#48, DIGIT	

Sym
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		39		50	D1	00087		C MPL	DIGIT, #57	:	0868	
				03	15	0008A		B LEQ	5\$:		
				07	C0	0008C		A DDL2	#7, DIGIT	:		
	02	AE		50	90	0008F	5\$:	M OVB	DIGIT, CHAR REP+2	:	0870	Valu
	03	AE		3E	90	00093		M OVB	#62, CHAR REP+3	:	0873	----
	04	AE		04	B0	00097		M OVW	#4, CHAR DESC	:	0874	0000
			04	AE	9F	0009B	6\$:	P USHAB	CHAR DESC	:	0877	0000
			10	AE	9F	0009E		P USHAB	INTER_DESC	:		0000
			14	AE	9F	000A1		P USHAB	INTER_DESC	:		0000
	00000000G	00		03	FB	000A4		C ALLS	#3, STR\$CONCAT	:		0000
		53		50	D0	000AB		M OVL	R0, STATUS	:		0000
		2D		53	E9	000AE		B LBC	STATUS, 8\$:	0879	0000
FF69		01		08	AC	F1 000B1	7\$:	A CBL	INPUT_LEN, #1, CHAR_NO, 1\$:	0820	0000
				0C	AE	9F 000B8		P USHAB	INTER_DESC	:	0883	4851
				04	AC	DD 000BB		P USHL	OUTPUT_DESC	:		7FFE
	00000000G	00		02	FB	000BE		C ALLS	#2, STR\$COPY_DX	:		7FFE
		53		50	D0	000C5		M OVL	R0, STATUS	:		8000
				0C	AE	9F 000C8		P USHAB	INTER_DESC	:	0884	8000
	00000000G	00		01	FB	000CB		C ALLS	#1, STR\$FREE1_DX	:		8000
		09		50	E8	000D2		B LBS	FREE_STATUS, 8\$:		8000
				50	DD	000D5		P USHL	FREE_STATUS	:		8000
	00000000G	00		01	FB	000D7		C ALLS	#1, [IB\$STOP	:		8000
		50		53	D0	000DE	8\$:	M OVL	STATUS, R0	:	0885	8001
				04	000E1			R ET		:	0886	8001

: Routine Size: 226 bytes, Routine Base: _EDT\$CODE + 0693

: 761 0887 1 !<BLF/PAGE>

EDT\$WRIEDTMSG
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG
PRINTABLE_TEXT - Return a binary string in ASCII

B 5
16-Sep-1984 02:18:31
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742
[EDT.SRC]WRIEDTMSG.B32;1

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_\$2

: 763 0888 1 END
: 764 0889 1
: 765 0890 0 ELUDOM

! End of module EDT\$WRIEDTMSG

.EXTRN LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
_EDT\$CODE	1909	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	106	1	581	00:02.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:WRIEDTMSG/OBJ=OBJ\$:WRIEDTMSG MSRCS\$:WRIEDTMSG.B32/UPDATE=(ENHS:WRIEDTMSG)

: Size: 1601 code + 308 data bytes
: Run Time: 01:14.7
: Elapsed Time: 02:10.7
: Lines/CPU Min: 714
: Lexemes/CPU-Min: 11820
: Memory Used: 334 pages
: Compilation Complete

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Ima
Ima
Num
Num
Num
Num
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