



DDDDDDDDDDDD		UUU	UUU	MMM	MMM	PPPPPPPPPP	
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DDDDDDDDDDDD		UUU	UUU	MMM	MMM	PPPPPPPPPP	
DDD	DDD	UUU	UUU	MMMMMM	MMMMMM	PPP	PPP
DDD	DDD	UUU	UUU	MMMMMM	MMMMMM	PPP	PPP
DDD	DDD	UUU	UUU	MMMMMM	MMMMMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDD	DDD	UUU	UUU	MMM	MMM	PPP	PPP
DDDDDDDDDDDD		UUUUUUUUUUUU	UUUUUUUUUUUU	MMM	MMM	PPP	
DDDDDDDDDDDD		UUUUUUUUUUUU	UUUUUUUUUUUU	MMM	MMM	PPP	
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DDDDDDDD      UU      UU      MM      MM      PPPPPPPP
DDDDDDDD      UU      UU      MM      MM      PPPPPPPP
DD      DD      UU      UU      MMMM      MMMM      PP      PP
DD      DD      UU      UU      MMMM      MMMM      PP      PP
DD      DD      UU      UU      MM      MM      MM      PP      PP
DD      DD      UU      UU      MM      MM      MM      PP      PP
DD      DD      UU      UU      MM      MM      MM      PPPPPPPP
DD      DD      UU      UU      MM      MM      MM      PPPPPPPP
DD      DD      UU      UU      MM      MM      MM      PP
DD      DD      UU      UU      MM      MM      MM      PP
DD      DD      UU      UU      MM      MM      MM      PP
DD      DD      UU      UU      MM      MM      MM      PP
DDDDDDDD      UUUUUUUUUU      MM      MM      PP
DDDDDDDD      UUUUUUUUUU      MM      MM      PP

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LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
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
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```

1 0001 0 MODULE DUMPSMAIN ( ! File dump program
2 0002 0 IDENT='V04-000',
3 0003 0 MAIN=dump$start,
4 0004 0 ADDRESSING MODE(EXTERNAL=GENERAL,
5 0005 0 NONEXTERNAL=LONG_RELATIVE)
6 0006 0 ) =
7 0007 1 BEGIN
8 0008 1
9 0009 1
10 0010 1 *****
11 0011 1 *
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29 0029 1 *
30 0030 1 *
31 0031 1 *****
32 0032 1
33 0033 1
34 0034 1 ++
35 0035 1
36 0036 1 FACILITY: File dump utility
37 0037 1
38 0038 1 ABSTRACT:
39 0039 1 This module contains the command processing and driver routines.
40 0040 1
41 0041 1 ENVIRONMENT:
42 0042 1 VAX native, user mode.
43 0043 1
44 0044 1 AUTHOR: Benn Schreiber, Stephen Zalewski CREATION DATE: 22-Jun-1981
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1 V03-013 SHZ0002 Stephen H. Zalewski 12-Apr-1984
49 0049 1 Move all conflicting qualifier checking to DUMP.CLD.
50 0050 1
51 0051 1 V03-012 BLS0258 Benn Schreiber 5-Jan-1984
52 0052 1 Clear fab$l_xab after opening the file.
53 0053 1
54 0054 1 V03-011 SHZ0001 Stephen H. Zalewski 28-Jun-1983
55 0055 1 Have DUMP open files shared.
56 0056 1
57 0057 1 V03-010 MLJ0095 Martin L. Jack, 17-Aug-1982 18:26

```



```

: 92      0091 1 LIBRARY 'SYSS$LIBRARY:STARLET';
: 93      0092 1 LIBRARY 'SYSS$LIBRARY:TPAMAC';
: 94      0093 1 REQUIRE 'SRCS:DUMPRE';
: 95      0209 1
: 96      0210 1
: 97      0211 1 FORWARD ROUTINE
: 98      0212 1     dump$handler,           : Top-level condition handler
: 99      0213 1     dump$start,           : Main routine
100     0214 1     dump$tparse,           : Call TPARSE
101     0215 1     dump$store_num,        : Store numeric qualifier value
102     0216 1     dump$open_input,       : Open input file
103     0217 1     dump$open_output,     : Open output file
104     0218 1     dump$read,           : Read from input file
105     0219 1     dump$write:           NOVALUE, : Write to output file
106     0220 1     dump$close_input:     NOVALUE, : Close input file
107     0221 1     dump$close_output:    NOVALUE, : Close output file
108     0222 1     dump$list_width:      NOVALUE, : Get listing device width
109     0223 1     dump$file_error:      NOVALUE, : Signal file-related error
110     0224 1
111     0225 1
112     0226 1 EXTERNAL ROUTINE
113     0227 1     cli$get_value,           : Get qualifier value
114     0228 1     cli$present,          : Test if qualifier present
115     0229 1     dump$blank_line,       : Write blank line
116     0230 1     dump$dump_file,        : Dump the file
117     0231 1     dump$output_getmsg,    : Output a message
118     0232 1     lib$free_vm,           : Free virtual memory
119     0233 1     lib$get_vm,            : Allocate virtual memory
120     0234 1     lib$find_file,         : Search for wild card files
121     0235 1     lib$lp_lines,          : Number of lines on printer
122     0236 1     lib$tparse,           : Table-driven parser
123     0237 1     str$copy_dx;           : Copy a string
124     0238 1
125     0239 1
126     0240 1 EXTERNAL LITERAL
127     0241 1     dump$_facility,
128     0242 1     dump$_badrange,
129     0243 1     dump$_confqual,
130     0244 1     dump$_devquals,
131     0245 1     dump$_devspec,
132     0246 1     dump$_getchn,
133     0247 1     dump$_endoffile,
134     0248 1     dump$_novirmem,
135     0249 1     dump$_badstart;
136     0250 1
137     0251 1
138     0252 1 GLOBAL
139     0253 1     dump$gl_ifab : REF BBLOCK,   : Pointer to input FAB
140     0254 1     dump$gl_inam : REF BBLOCK,  : Pointer to input NAM block
141     0255 1     dump$gl_irab : $RAB_DECL,   : Input RAB
142     0256 1     dump$gl_orab : $RAB_DECL,   : Output RAB
143     0257 1     dump$gl_ofab : $FAB_DECL,   : Output FAB
144     0258 1     dump$gl_onam : $NAM_DECL,   : Output NAM block
145     0259 1     dump$gl_orss : BBLOCK[nam$c_maxrss], : Output resultant string
146     0260 1     dump$gl_idesc : BBLOCK[dsc$c_s_bln], : Descriptor for input RSA
147     0261 1     dump$gl_odesc : BBLOCK[dsc$c_s_bln], : Descriptor for output RSA
148     0262 1     dump$ab_outbuf : BBLOCK[dump$c_maxlisiz], : Output buffer

```

```

: 149      0263 1      dump$gl_outdesc : BBLOCK[dsc$c_s_bln],      : Descriptor for output buffer
: 150      0264 1      dump$gl_channel,      : Input channel
: 151      0265 1      dump$gl_width,      : Width of listing
: 152      0266 1      dump$gl_lpp,      : Lines per page
: 153      0267 1      dump$gl_buffer : BBLOCK[dsc$c_s_bln],      : Descriptor for input buffer
: 154      0268 1      dump$gl_flags : BBLOCK[4],      : General flags
: 155      0269 1      dump$gl_start_qual,      : Value of START qualifier
: 156      0270 1      dump$gl_end_qual,      : Value of END qualifier
: 157      0271 1      dump$gl_count_qual,      : Value of COUNT qualifier
: 158      0272 1      dump$gl_number_qual,      : Value of NUMBER qualifier
: 159      0273 1      dump$gl_number,      : Local byte offset for NUMBER
: 160      0274 1      dump$gl_cur_block,      : Current block number
: 161      0275 1      dump$gl_max_block,      : Highest block to be dumped
: 162      0276 1      dump$gl_file_efblk,      : End of file block
: 163      0277 1      dump$gl_file_hiblk,      : Highest allocated block
: 164      0278 1      dump$gl_record,      : Current block/record number
: 165      0279 1      dump$gl_time : VECTOR[2];      : Time at beginning of dump
: 166      0280 1
: 167      0281 1
: 168      0282 1      OWN
: 169      0283 1      exit_status : BBLOCK[4] INITIAL(ss$_normal), : Most severe error status
: 170      0284 1      tpa_block : BBLOCK[tpa$_length];      : TPARSE block

```

```

: 172 0285 1 LITERAL
: 173 0286 1
: 174 0287 1 dump$m_tpa_start= $fieldmask(dump$V_tpa_start),
: 175 0288 1 dump$m_tpa_count= $fieldmask(dump$V_tpa_count),
: 176 0289 1 dump$m_tpa_end= $fieldmask(dump$V_tpa_end);
: 177 0290 1
: 178 0291 1 ! TPARSE tables to parse /BLOCK and /RECORD qualifier values.
: 179 0292 1 !
: 180 0293 1 $INIT STATE(blkrec_states, blkrec_keys);
: 181 P 0294 1 $STATE(
: 182 P 0295 1 ('START'...,dump$m_tpa_start,dump$gl_flags),
: 183 P 0296 1 ('END'...,dump$m_tpa_end, dump$gl_flags),
: 184 0297 1 ('COUNT'...,dump$m_tpa_count,dump$gl_flags));
: 185 P 0298 1 $STATE(
: 186 P 0299 1 ('='),
: 187 0300 1 (':'));
: 188 P 0301 1 $STATE(parse_number,
: 189 P 0302 1 (tpa$_decimal,eos,dump$store_num), ! Decimal number
: 190 0303 1 ('X')); ! Base prefix
: 191 P 0304 1 $STATE(
: 192 P 0305 1 ('X'), ! Hex base designator
: 193 P 0306 1 ('O',octnum), ! Octal base designator
: 194 0307 1 ('D',decnum)); ! Decimal base designator
: 195 P 0308 1 $STATE(
: 196 0309 1 (tpa$_hex,eos,dump$store_num)); ! Introduced hex number
: 197 P 0310 1 $STATE(octnum,
: 198 0311 1 (tpa$_octal,eos,dump$store_num)); ! Introduced octal number
: 199 P 0312 1 $STATE(decnum,
: 200 0313 1 (tpa$_decimal,,dump$store_num)); ! Introduced decimal number
: 201 P 0314 1 $STATE(eos,
: 202 0315 1 (tpa$_eos,tpa$_exit)); ! End of string
: 203 0316 1
: 204 0317 1
: 205 0318 1 ! TPARSE table to parse /NUMBER qualifier.
: 206 0319 1 !
: 207 0320 1 $INIT STATE(number_states, number_keys);
: 208 P 0321 1 $STATE(
: 209 0322 1 ((parse_number),tpa$_exit)); ! /NUMBER=

```

```

211 0323 1 ROUTINE dump$handler(sigargs, mechargs)=
212 0324 BEGIN
213 0325
214 0326     This routine is a condition handler established by the main
215 0327     routine.  It saves the most severe condition for the exit status.
216 0328
217 0329 MAP
218 0330     sigargs : REF BBLOCK,
219 0331     mechargs : REF BBLOCK;
220 0332 BIND
221 0333     signame = sigargs[chf$l_sig_name] : BBLOCK; ! Name of signal
222 0334
223 0335
224 0336 IF NOT .signame ! If an error signal
225 0337     AND ((.signame[sts$v_severity] ! and severity is worse
226 0338     GTRU .exit_status[sts$v_severity])
227 0339     OR .exit_status[sts$v_severity]) ! or no errors yet
228 0340 THEN
229 0341     exit_status = .signame; ! then save it for exit
230 0342
231 0343
232 0344 RETURN ss$_resignal; ! Resignal to get message
233 0345 END; ! Of dump$handler

```

```

.TITLE DUMPSMAIN
.IDENT \V04-000\

.PSECT _LIB$KEY1$,NOWRT, SHR, PIC,1

```

```

00000 ;TPASKEYSTO
U.2: .BLKB 0
54 52 41 54 53 00000 ;TPASKEYST
U.4: .ASCII \START\
FF 00005 .BYTE -1
00006 ;TPASKEYSTO
U.8: .BLKB 0
44 4E 45 00006 ;TPASKEYST
U.10: .ASCII \END\
FF 00009 .BYTE -1
0000A ;TPASKEYSTO
U.14: .BLKB 0
54 4E 55 4F 43 0000A ;TPASKEYST
U.16: .ASCII \COUNT\
FF 0000F .BYTE -1
FF 00010 ;TPASKEYFILL
U.20: .BYTE -1

```

```

.PSECT _LIB$STATES,NOWRT, SHR, PIC,1

```

```

00000 BLKREC_STATES::
        .BLKB 0
        6100 00000 ;TPASTYPE
        U.5: .WORD 24832
        00000000* 00002 ;TPASADDR
        U.6: .LONG <<DUMPSGL_FLAGS-U.6>-4>
        10000000 00006 ;TPASMASK

```


6101	0000A	U.7:	LONG	268435456	:
		:TPASTYPE			
00000000*	0000C	U.11:	WORD	24833	:
		:TPASADDR			
20000000	00010	U.12:	LONG	<<DUMPSGL_FLAGS-U.12>-4>	:
		:TPASMASK			
6502	00014	U.13:	LONG	536870912	:
		:TPASTYPE			
00000000*	00016	U.17:	WORD	25858	:
		:TPASADDR			
40000000	0001A	U.18:	LONG	<<DUMPSGL_FLAGS-U.18>-4>	:
		:TPASMASK			
003D	0001E	U.19:	LONG	1073741824	:
		:TPASTYPE			
043A	00020	U.21:	WORD	61	:
		:TPASTYPE			
	00022	U.22:	WORD	1082	:
		PARSE_NUMBER:			
		.BLKB		0	
91F3	00022	:TPASTYPE			
00000000V	00024	U.23:	WORD	-28173	:
		:TPASACTION			
0000*	00028	U.24:	LONG	<<DUMPSSTORE_NUM-U.24>-4>	:
		:TPASTARGET			
0425	0002A	U.26:	WORD	<<U.25-U.26>-2>	:
		:TPASTYPE			
0058	0002C	U.27:	WORD	1061	:
		:TPASTYPE			
104F	0002E	U.28:	WORD	88	:
		:TPASTYPE			
0000*	00030	U.29:	WORD	4175	:
		:TPASTARGET			
1444	00032	U.31:	WORD	<<U.30-U.31>-2>	:
		:TPASTYPE			
0000*	00034	U.32:	WORD	5188	:
		:TPASTARGET			
95F5	00036	U.34:	WORD	<<U.33-U.34>-2>	:
		:TPASTYPE			
00000000V	00038	U.35:	WORD	-27147	:
		:TPASACTION			
0000*	0003C	U.36:	LONG	<<DUMPSSTORE_NUM-U.36>-4>	:
		:TPASTARGET			
	0003E	U.37:	WORD	<<U.25-U.37>-2>	:
		:OCTNUM			
		U.30:	.BLKB	0	
95F4	0003E	:TPASTYPE			
00000000V	00040	U.38:	WORD	-27148	:
		:TPASACTION			
0000*	00044	U.39:	LONG	<<DUMPSSTORE_NUM-U.39>-4>	:
		:TPASTARGET			
	00046	U.40:	WORD	<<U.25-U.40>-2>	:
		:DECNUM			
		U.33:	.BLKB	0	
85F3	00046	:TPASTYPE			
00000000V	00048	U.41:	WORD	-31245	:
		:TPASACTION			
		U.42:	.LONG	<<DUMPSSTORE_NUM-U.42>-4>	:

```
0004C ;EOS
15F7 0004C U.25: .BLKB 0
          ;TPASTYPE
          U.43: .WORD 5623
FFFF 0004E ;TPASTARGET
          U.44: .WORD -1
          00050 NUMBER_STATES::
          .BLKB 0
1DF8 00050 ;TPASTYPE
          U.46: .WORD 7672
0000* 00052 ;TPASSUBEXP
          U.47: .WORD <<PARSE_NUMBER-U.47>-2>
FFFF 00054 ;TPASTARGET
          U.48: .WORD -1
          .PSECT _LIB$KEYOS,NOWRT, SHR, PIC,1
          00000 BLKREC_KEYS::
          .BLKB 0
          00000 ;TPASKEY0
          U.1: .BLKB 0
0000* 00000 ;TPASKEY
          U.3: .WORD <U.2-U.1>
0000* 00002 ;TPASKEY
          U.9: .WORD <U.8-U.1>
0000* 00004 ;TPASKEY
          U.15: .WORD <U.14-U.1>
          00006 .BLKB 2
          00008 NUMBER_KEYS::
          .BLKB 0
          00008 ;TPASKEY0
          U.45: .BLKB 0
          .PSECT $OWNS,NOEXE,2
00000001 00000 EXIT_STATUS:
          .LONG 1
          00004 TPA_BLOCK:
          .BLKB 36
          .PSECT $GLOBALS,NOEXE,2
          00000 DUMPSGL_IFAB::
          .BLKB 4
          00004 DUMPSGL_INAM::
          .BLKB 4
          00008 DUMPSGL_IRAB::
          .BLKB 68
          0004C DUMPSGL_ORAB::
          .BLKB 68
          00090 DUMPSGL_OFAB::
          .BLKB 80
          000E0 DUMPSGL_ONAM::
          .BLKB 96
          00140 DUMPSGL_ORSS::
          .BLKB 255
          0023F .BLKB 1
```

00240 DUMPSGL_IDESC::
 .BLKB 8
00248 DUMPSGL_ODESC::
 .BLKB 8
00250 DUMPSAB_OUTBUF::
 .BLKB 132
002D4 DUMPSGL_OUTDESC::
 .BLKB 8
002DC DUMPSGL_CHANNEL::
 .BLKB 4
002E0 DUMPSGL_WIDTH::
 .BLKB 4
002E4 DUMPSGL_LPP::
 .BLKB 4
002E8 DUMPSGL_BUFFER::
 .BLKB 8
002F0 DUMPSGL_FLAGS::
 .BLKB 4
002F4 DUMPSGL_START_QUAL::
 .BLKB 4
002F8 DUMPSGL_END_QUAL::
 .BLKB 4
002FC DUMPSGL_COUNT_QUAL::
 .BLKB 4
00300 DUMPSGL_NUMBER_QUAL::
 .BLKB 4
00304 DUMPSGL_NUMBER::
 .BLKB 4
00308 DUMPSGL_CUR_BLOCK::
 .BLKB 4
0030C DUMPSGL_MAX_BLOCK::
 .BLKB 4
00310 DUMPSGL_FILE_EFBLK::
 .BLKB 4
00314 DUMPSGL_FILE_HIBLK::
 .BLKB 4
00318 DUMPSGL_RECORD::
 .BLKB 4
0031C DUMPSGQ_TIME::
 .BLKB 8

.EXTRN CLISGET VALUE, CLISPRESENT
.EXTRN DUMPSBLANK LINE
.EXTRN DUMPSDUMP FILE, DUMPSOUTPUT_GETMSG
.EXTRN LIB\$FREE_VM, LIB\$GET_VM
.EXTRN LIB\$FIND_FILE, LIB\$LP_LINES
.EXTRN LIB\$PARSE, STR\$COPY BX
.EXTRN DUMPS_FACILITY, DUMPS_BADRANGE
.EXTRN DUMPS_CONFQUAL, DUMPS_DEVQUALS
.EXTRN DUMPS_DEVSPEC, DUMPS_GETCHN
.EXTRN DUMPS_ENDOFFILE
.EXTRN DUMPS_NOVIRMEM, DUMPS_BADSTART

.PSECT \$CODE\$,NOWRT,2

0004 00000 DUMPSHANDLER:
 .WORD Save R2

DUMPSMAIN
V04-000

L 10
16-Sep-1984 01:26:41
14-Sep-1984 12:21:35

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[DUMP.SRC]DUMP.B32;1

Page 10
(4)

		52	00000000'	EF	9E	00002	MOVAB	EXIT_STATUS, R2	:	
	50	04	AC	04	C1	00009	ADDL3	#4, SIGARGS, R0	:	0333
			12	60	E8	0000E	BLBS	(R0), 2\$:	0336
51	62		03	00	EF	00011	EXTZV	#0, #3, EXIT_STATUS, R1	:	0338
51	60		03	00	ED	00016	CMPZV	#0, #3, (R0), R1	:	
				03	1A	0001B	BGTRU	1\$:	
			03	62	E9	0001D	BLBC	EXIT_STATUS, 2\$:	0339
			62	60	D0	00020	MOVL	(R0), EXIT_STATUS	:	0341
			50	0918	8F	00023	MOVZWL	#2328, R0	:	0344
					04	00028	RET		:	0345

; Routine Size: 41 bytes. Routine Base: \$CODE\$ + 0000

```
235 0346 1 ROUTINE dump$start=  
236 0347 2 BEGIN  
237 0348 2  
238 0349 2 This is the main program. It gathers all the command inputs, and then  
239 0350 2 dumps the requested files.  
240 0351 2  
241 0352 2 LOCAL  
242 0353 2 find_context : REF BBLOCK, ! Context for lib$find file  
243 0354 2 find_result : BBLOCK[dsc$c_s_bln], ! Result of lib$find file  
244 0355 2 find_related : BBLOCK[dsc$c_s_bln], ! Related file for find_file  
245 0356 2 find_default : BBLOCK[dsc$c_s_bln], ! Default file  
246 0357 2 value_desc : BBLOCK[dsc$c_s_bln], ! Qualifier value descriptor  
247 0358 2 status, ! Status variable  
248 0359 2 output_desc : BBLOCK[dsc$c_s_bln], ! Output file specification  
249 0360 2 input_desc : BBLOCK[dsc$c_s_bln], ! Input file specification  
250 0361 2 input_devchar : BLOCK[16,BYTE]; ! $GETDVI arg block  
251 0362 2 BUILTIN  
252 0363 2 fp;  
253 0364 2  
254 0365 2  
255 0366 2 .fp = dump$handler; ! Enable the condition handler  
256 0367 2  
257 0368 2  
258 0369 2 CH$FILL(0, dsc$c_s_bln, input_desc);  
259 0370 2 input_desc[dsc$b_class] = dsc$k_class_d; ! Make descriptors dynamic  
260 0371 2 CH$MOVE(dsc$c_s_bln, input_desc, output_desc);  
261 0372 2 CH$MOVE(dsc$c_s_bln, input_desc, find_result);  
262 0373 2 CH$MOVE(dsc$c_s_bln, input_desc, find_related);  
263 0374 2 CH$MOVE(dsc$c_s_bln, input_desc, find_default);  
264 0375 2 CH$MOVE(dsc$c_s_bln, input_desc, value_desc);  
265 0376 2  
266 0377 2  
267 0378 2 ! Get parameters and qualifiers.  
268 0379 2  
269 0380 2 cli$get_value($descriptor('INPUT'), input_desc); ! Get input file spec  
270 0381 2 cli$get_value($descriptor('OUTPUT'), output_desc); ! Get output file spec  
271 0382 2 dump$gl_flags[dump$v_allocated] = cli$present($descriptor('ALLOCATED'));  
272 0383 2 dump$gl_flags[dump$v_blocks] = cli$present($descriptor('BLOCKS'));  
273 0384 2 dump$gl_flags[dump$v_byte] = cli$present($descriptor('BYTE'));  
274 0385 2 dump$gl_flags[dump$v_decimal] = cli$present($descriptor('DECIMAL'));  
275 0386 2 dump$gl_flags[dump$v_file_header] = cli$present($descriptor('FILE HEADER'));  
276 0387 2 dump$gl_flags[dump$v_formatted] = cli$present($descriptor('FORMATTED'));  
277 0388 2 dump$gl_flags[dump$v_header] = cli$present($descriptor('HEADER'));  
278 0389 2 dump$gl_flags[dump$v_hex] = cli$present($descriptor('HEXADECIMAL'));  
279 0390 2 dump$gl_flags[dump$v_longword] = cli$present($descriptor('LONGWORD'));  
280 0391 2 dump$gl_flags[dump$v_number] = cli$present($descriptor('NUMBER'));  
281 0392 2 dump$gl_flags[dump$v_octal] = cli$present($descriptor('OCTAL'));  
282 0393 2 dump$gl_flags[dump$v_output] = cli$present($descriptor('OUTPUT'));  
283 0394 2 dump$gl_flags[dump$v_printer] = cli$present($descriptor('PRINTER'));  
284 0395 2 dump$gl_flags[dump$v_records] = cli$present($descriptor('RECORDS'));  
285 0396 2 dump$gl_flags[dump$v_word] = cli$present($descriptor('WORD'));  
286 0397 2  
287 0398 2  
288 0399 2  
289 0400 2 ! If /NUMBER qualifier is present, get the value.  
290 0401 2  
291 0402 2 IF .dump$gl_flags[dump$v_number] ! /NUMBER present
```

```
292 0403 2 THEN
293 0404 2 BEGIN
294 0405 2 IF cli$get_value($descriptor('NUMBER'), value_desc)
295 0406 2 THEN
296 0407 2 BEGIN
297 0408 2 dump$gl_flags[dump$vp_tpa_number] = true; ! Note parsing /NUMBER
298 0409 2 IF NOT dump$tparse(value_desc, number_states, number_keys)
299 0410 2 THEN
300 0411 2 SIGNAL_STOP(
301 0412 2 dump$facility^16 + shr$syntax + sts$k_severe,
302 0413 2 1, value_desc);
303 0414 2 END;
304 0415 2 END;
305 0416 2
306 0417 2
307 0418 2 ! If /BLOCK qualifier is present, get the value(s).
308 0419 2
309 0420 2 IF .dump$gl_flags[dump$vp_blocks] ! /BLOCKS present
310 0421 2 THEN
311 0422 2 BEGIN
312 0423 2 WHILE cli$get_value($descriptor('BLOCKS'), value_desc) DO
313 0424 2 BEGIN
314 0425 2 IF NOT dump$tparse(value_desc, blkrec_states, blkrec_keys)
315 0426 2 THEN
316 0427 2 SIGNAL_STOP(
317 0428 2 dump$facility^16 + shr$syntax + sts$k_severe,
318 0429 2 1, value_desc);
319 0430 2 END;
320 0431 2 END;
321 0432 2
322 0433 2
323 0434 2 ! If /RECORD qualifier is present, get the value(s).
324 0435 2
325 0436 2 IF .dump$gl_flags[dump$vp_record.] ! /RECORDS present
326 0437 2 THEN
327 0438 2 BEGIN
328 0439 2 WHILE cli$get_value($descriptor('RECORDS'), value_desc) DO
329 0440 2 BEGIN
330 0441 2 IF NOT dump$tparse(value_desc, blkrec_states, blkrec_keys)
331 0442 2 THEN
332 0443 2 SIGNAL_STOP(
333 0444 2 dump$facility^16 + shr$syntax + sts$k_severe,
334 0445 2 1, value_desc);
335 0446 2 END;
336 0447 2 END;
337 0448 2
338 0449 2
339 0450 2 ! Check range of START and END if both were specified, to ensure that START
340 0451 2 is less than END.
341 0452 2
342 0453 2 IF .dump$gl_flags[dump$vp_start] AND .dump$gl_flags[dump$vp_end]
343 0454 2 AND .dump$gl_start_qual GTRU .dump$gl_end_qual
344 0455 2 THEN
345 0456 2 SIGNAL_STOP(dump$_badrange);
346 0457 2
347 0458 2
348 0459 2 ! Get number of lines on output page.
```

```

349 0460 2 !
350 0461 2 dump$gl_lpp = lib$lp_lines() - 6;
351 0462 2
352 0463 2
353 0464 2 ! Loop, calling LIB$FIND_FILE to get files matching the input spec.
354 0465 2
355 0466 2 find_context = 0; ! Initialize context
356 0467 2 UNTIL
357 0468 2 BEGIN
358 0469 2 status = lib$find_file(
359 0470 2 input_desc,
360 0471 2 find_result,
361 0472 2 find_context,
362 0473 2 find_default,
363 0474 2 find_related);
364 0475 2 IF .find_context NEQ 0 THEN dump$gl_inam = .find_context[fab$l_nam];
365 0476 2 IF .status EQL rms$_dnf OR .status EQL rms$_fnf
366 0477 2 THEN
367 0478 2 BEGIN
368 0479 2 IF (.dump$gl_inam[nam$l_fnb] AND ! Check for only device
369 0480 2 (nam$m_exp_dir OR
370 0481 2 nam$m_exp_name OR
371 0482 2 nam$m_exp_type OR
372 0483 2 nam$m_exp_ver OR
373 0484 2 nam$m_wildcard)) EQL 0
374 0485 2 THEN
375 0486 2 BEGIN
376 0487 2 input_devchar[dumpdvi_w_size] = 4; ! Build $GETDVI item
377 0488 2 input_devchar[dumpdvi_w_type] = dvi$_devchar; ! list for the
378 0489 2 input_devchar[dumpdvi_l_addr] = find_context[fab$l_dev]; ! device
379 0490 2 input_devchar[dumpdvi_l_len] = 0; ! characteristics
380 0491 2 input_devchar[dumpdvi_l_end] = 0; ! Terminate the list
381 0492 2 $GETDVI(EFN = dumpdvi_c_efn, ! Get characteristics
382 0493 2 DEVNAM = input_desc,
383 0494 2 ITMLST = input_devchar);
384 0495 2 $WAITFR(EFN = dumpdvi_c_efn); ! Wait until complete
385 0496 2 status = 1; ! Don't take an error
386 0497 2 BBLOCK[find_context[fab$l_dev], dev$v_for] = 1; ! Mark foreign
387 0498 2 END;
388 0499 2 END;
389 0500 2 .status EQL rms$_nmf
390 0501 2 END
391 0502 2 DO
392 0503 2 BEGIN
393 0504 2 IF NOT .status ! Report error
394 0505 2 THEN
395 0506 2 BEGIN
396 0507 2 SIGNAL(
397 0508 2 dump$_facility^16 + shr$_openin + sts$_k_error,
398 0509 2 1, find_result,
399 0510 2 .find_context[fab$l_sts], .find_context[fab$l_stv]);
400 0511 2 END
401 0512 2 ELSE
402 0513 2 BEGIN
403 0514 2 IF dump$open_input(.find_context, find_result)
404 0515 2 AND dump$open_output(output_desc, .find_context)
405 0516 2 THEN

```

```

: 406      0517      5      BEGIN
: 407      0518      5      dump$list_width(dump$gl_ofab);           ! Get width of listing
: 408      0519      5      $GETTIM(timadr=dump$gl_time);       ! Get current time
: 409      0520      5      dump$gl_number = .dump$gl_number_qual; ! Set initial /NUMBER
: 410      0521      5      dump$dump_file();             ! Dump the file
: 411      0522      5      dump$close_input(.find_context);
: 412      0523      5      dump$close_output();
: 413      0524      5      END;
: 414      0525      5      str$copy_dx(find_related, find_result); ! Propagate related
: 415      0526      5      END;
: 416      0527      5      IF NOT .dump$gl_inam[inam$w wildcard]
: 417      0528      5      THEN RETURN .exit_status OR sts$m_inhib_msg;
: 418      0529      5      END;                               ! Of LIB$FIND_FILE loop
: 419      0530      5
: 420      0531      5
: 421      0532      2 RETURN .exit_status OR sts$m_inhib_msg; ! Exit with no message
: 422      0533      1 END;

```

.PSECT \$SPLITS, NOWRT, NOEXE, 2

```

      54 55 50 4E 49 00000 P.AAB: .ASCII \INPUT\
      00005 .BLKB 3
      00000005 00008 P.AAA: .LONG 5
      00000000' 0000C .ADDRESS P.AAB
      54 55 50 54 55 4F 00010 P.AAD: .ASCII \OUTPUT\
      00016 .BLKB 2
      00000006 00018 P.AAC: .LONG 6
      00000000' 0001C .ADDRESS P.AAD
      44 45 54 41 43 4F 4C 4C 41 00020 P.AAF: .ASCII \ALLOCATED\
      00029 .BLKB 3
      00000009 0002C P.AAE: .LONG 9
      00000000' 00030 .ADDRESS P.AAF
      49 49 43 53 41 00034 P.AAH: .ASCII \ASCII\
      00039 .BLKB 3
      00000005 0003C P.AAG: .LONG 5
      00000000' 00040 .ADDRESS P.AAH
      53 4B 43 4F 4C 42 00044 P.AAJ: .ASCII \BLOCKS\
      0004A .BLKB 2
      00000006 0004C P.AAI: .LONG 6
      00000000' 00050 .ADDRESS P.AAJ
      45 54 59 42 00054 P.AAL: .ASCII \BYTE\
      00000004 00058 P.AAK: .LONG 4
      00000000' 0005C .ADDRESS P.AAL
      4C 41 4D 49 43 45 44 00060 P.AAN: .ASCII \DECIMAL\
      00067 .BLKB 1
      00000007 00068 P.AAM: .LONG 7
      00000000' 0006C .ADDRESS P.AAN
      52 45 44 41 45 48 5F 45 4C 49 46 00070 P.AAP: .ASCII \FILE_HEADER\
      0007B .BLKB 1
      00000008 0007C P.AAO: .LONG 11
      00000000' 00080 .ADDRESS P.AAP
      44 45 54 54 41 4D 52 4F 46 00084 P.AAR: .ASCII \FORMATTED\
      0008D .BLKB 3
      00000009 00090 P.AAQ: .LONG 9
      00000000' 00094 .ADDRESS P.AAR

```


	52	45	44	41	45	48	00098	P.AAT:	.ASCII	\HEADER\	:						
							0009E		.BLKB	2	:						
						00000006	000A0	P.AAS:	.LONG	6	:						
						00000000	000A4		.ADDRESS	P.AAT	:						
4C	41	4D	49	43	45	44	41	58	45	48	:						
							000A8	P.AAV:	.ASCII	\HEXADECIMAL\	:						
							000B3		.BLKB	1	:						
						0000000B	000B4	P.AAU:	.LONG	11	:						
						00000000	000B8		.ADDRESS	P.AAV	:						
	44	52	4F	57	47	4E	4F	4C	000BC	P.AAX:	.ASCII	\LONGWORD\	:				
							00000008	0C0C4	P.AAW:	.LONG	8	:					
							000000C0	000C8		.ADDRESS	P.AAX	:					
						52	45	42	4D	55	4E	000CC	P.AAZ:	.ASCII	\NUMBER\	:	
									000D2			.BLKB	2	:			
						00000006	000D4	P.AAY:	.LONG	6	:						
						00000000	000D8		.ADDRESS	P.AAZ	:						
						4C	41	54	43	4F	000DC	P.ABB:	.ASCII	\OCTAL\	:		
									000E1			.BLKB	3	:			
						00000005	000E4	P.ABA:	.LONG	5	:						
						00000000	000E8		.ADDRESS	P.ABB	:						
						54	55	50	54	55	4F	000EC	P.ABD:	.ASCII	\OUTPUT\	:	
									000F2			.BLKB	2	:			
						00000006	000F4	P.ABC:	.LONG	6	:						
						00000000	000F8		.ADDRESS	P.ABD	:						
						52	45	54	4E	49	52	50	000FC	P.ABF:	.ASCII	\PRINTER\	:
									00103			.BLKB	1	:			
						00000007	00104	P.ABE:	.LONG	7	:						
						00000000	00108		.ADDRESS	P.ABF	:						
						53	44	52	4F	43	45	52	0010C	P.ABH:	.ASCII	\RECORDS\	:
									00113			.BLKB	1	:			
						00000007	00114	P.ABG:	.LONG	7	:						
						00000000	00118		.ADDRESS	P.ABH	:						
						44	52	4F	57	0011C	P.ABJ:	.ASCII	\WORD\	:			
						00000004	00120	P.ABI:	.LONG	4	:						
						00000000	00124		.ADDRESS	P.ABJ	:						
						52	45	42	4D	55	4E	00128	P.ABL:	.ASCII	\NUMBER\	:	
									0012E			.BLKB	2	:			
						00000006	00130	P.ABK:	.LONG	6	:						
						00000000	00134		.ADDRESS	P.ABL	:						
						53	4B	43	4F	4C	42	00138	P.ABN:	.ASCII	\BLOCKS\	:	
									0013E			.BLKB	2	:			
						00000006	00140	P.ABM:	.LONG	6	:						
						00000000	00144		.ADDRESS	P.ABN	:						
						53	44	52	4F	43	45	52	00148	P.ABP:	.ASCII	\RECORDS\	:
									0014F			.BLKB	1	:			
						00000007	00150	P.ABO:	.LONG	7	:						
						00000000	00154		.ADDRESS	P.ABP	:						

.EXTRN SYSSGETDVI, SYSSWAITFR
.EXTRN SYSSGETTIM

.PSECT \$CODE\$,NOWRT,2

OFFC 0000 DUMPS\$START:

5B	00000000	EF	9E	00002
5A	00000000	G	00	9E 00009
59	00000000	G	00	9E 00010

.WORD	Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11
MOVAB	BLKREC KEYS, R11
MOVAB	LIB\$STOP, R10
MOVAB	CLI\$GET_VALUE, R9

			58	00000000G	00	9E	00017	MOVAB	CLISPRESNT, R8	
			57	00000000'	EF	9E	0001E	MOVAB	P.AAA, R7	
			56	00000000'	EF	9E	00025	MOVAB	DUMPSGL_FLAGS, R6	
			5E	BC	AE	9E	0002C	MOVAB	-68(SP), SP	
			6D	A4	AF	9E	00030	MOVAB	DUMPSHANDLER, (FP)	0366
08		00	6E		00	2C	00034	MOVCS	#0, (SP), #0, #8, INPUT_DESC	0369
				14	AE		00039			
		17	AE		02	90	0003B	MOVAB	#2, INPUT_DESC+3	0370
	1C	AE	14	AE	08	28	0003F	MOVCS	#8, INPUT_DESC, OUTPUT_DESC	0371
	3C	AE	14	AE	08	28	00045	MOVCS	#8, INPUT_DESC, FIND_RESULT	0372
	34	AE	14	AE	08	28	0004B	MOVCS	#8, INPUT_DESC, FIND_RELATED	0373
	2C	AE	14	AE	08	28	00051	MOVCS	#8, INPUT_DESC, FIND_DEFAULT	0374
	24	AE	14	AE	08	28	00057	MOVCS	#8, INPUT_DESC, VALUE_DESC	0375
				14	AE	9F	0005D	PUSHAB	INPUT_DESC	0380
				69	57	DD	00060	PUSHL	R7	
					02	FB	00062	CALLS	#2, CLISGET_VALUE	
				1C	AE	9F	00065	PUSHAB	OUTPUT_DESC	0381
				10	A7	9F	00068	PUSHAB	P.AAC	
				69	02	FB	0006B	CALLS	#2, CLISGET_VALUE	
					A7	9F	0006E	PUSHAB	P.AAE	0382
				68	01	FB	00071	CALLS	#1, CLISPRESNT	
66		01	00		50	F0	00074	INSV	R0, #0, #1, DUMPSGL_FLAGS	
					A7	9F	00079	PUSHAB	P.AAG	0383
				68	01	FB	0007C	CALLS	#1, CLISPRESNT	
					A7	9F	0007F	PUSHAB	P.AAI	0384
				68	01	FB	00082	CALLS	#1, CLISPRESNT	
66		01	01		50	F0	00085	INSV	R0, #1, #1, DUMPSGL_FLAGS	
					A7	9F	0008A	PUSHAB	P.AAK	0385
				68	01	FB	0008D	CALLS	#1, CLISPRESNT	
66		01	02		50	F0	00090	INSV	R0, #2, #1, DUMPSGL_FLAGS	
					A7	9F	00095	PUSHAB	P.AAM	0386
				68	01	FB	00098	CALLS	#1, CLISPRESNT	
66		01	03		50	F0	0009B	INSV	R0, #3, #1, DUMPSGL_FLAGS	
					A7	9F	000A0	PUSHAB	P.AAO	0387
				68	01	FB	000A3	CALLS	#1, CLISPRESNT	
66		01	04		50	F0	000A6	INSV	R0, #4, #1, DUMPSGL_FLAGS	
					C7	9F	000AB	PUSHAB	P.AAQ	0388
				68	01	FB	000AF	CALLS	#1, CLISPRESNT	
66		01	05		50	F0	000B2	INSV	R0, #5, #1, DUMPSGL_FLAGS	
					C7	9F	000B7	PUSHAB	P.AAS	0389
				68	01	FB	000BB	CALLS	#1, CLISPRESNT	
66		01	06		50	F0	000BE	INSV	R0, #6, #1, DUMPSGL_FLAGS	
					C7	9F	000C3	PUSHAB	P.AAU	0390
				68	01	FB	000C7	CALLS	#1, CLISPRESNT	
66		01	07		50	F0	000CA	INSV	R0, #7, #1, DUMPSGL_FLAGS	
					C7	9F	000CF	PUSHAB	P.AAW	0391
				68	01	FB	000D3	CALLS	#1, CLISPRESNT	
01	A6		01	00	50	F0	000D6	INSV	R0, #0, #1, DUMPSGL_FLAGS+1	
					C7	9F	000DC	PUSHAB	P.AAY	0392
				68	01	FB	000E0	CALLS	#1, CLISPRESNT	
01	A6		01	01	50	F0	000E3	INSV	R0, #1, #1, DUMPSGL_FLAGS+1	
					C7	9F	000E9	PUSHAB	P.ABA	0393
				68	01	FB	000ED	CALLS	#1, CLISPRESNT	
01	A6		01	02	50	F0	000F0	INSV	R0, #2, #1, DUMPSGL_FLAGS+1	
					C7	9F	000F6	PUSHAB	P.ABC	0394
				68	01	FB	000FA	CALLS	#1, CLISPRESNT	
01	A6		01	03	50	F0	000FD	INSV	R0, #3, #1, DUMPSGL_FLAGS+1	

01	A6	01	68	00FC	C7	9F	00103		PUSHAB	P.ABE		0395
			04		01	FB	00107		CALLS	#1, CLISPRESNT		
					50	FO	0010A		INSV	R0, #4, #1, DUMPSGL_FLAGS+1		
				010C	C7	9F	00110		PUSHAB	P.ABG		0396
01	A6	01	68		01	FB	00114		CALLS	#1, CLISPRESNT		
			05		50	FO	00117		INSV	R0, #5, #1, DUMPSGL_FLAGS+1		
				0118	C7	9F	0011D		PUSHAB	P.ABI		0397
01	A6	01	68		01	FB	00121		CALLS	#1, CLISPRESNT		
			06		50	FO	00124		INSV	R0, #6, #1, DUMPSGL_FLAGS+1		
		36	01	A6	01	E1	0012A		BBC	#1, DUMPSGL_FLAGS+1, 1\$		0402
					24	AE	9F 0012F		PUSHAB	VALUE_DESC		0405
					0128	C7	9F 00132		PUSHAB	P.ABK		
			69		02	FB	00136		CALLS	#2, CLISGET_VALUE		
			29		50	E9	00139		BLBC	R0, 1\$		
		03	A6		80	8F	88 0013C		BISB2	#128, DUMPSGL_FLAGS+3		0408
					08	AB	9F 00141		PUSHAB	NUMBER_KEYS		0409
					00000000*	EF	9F 00144		PUSHAB	NUMBER_STATES		
					2C	AE	9F 0014A		PUSHAB	VALUE_DESC		
			00000000V		03	FB	0014D		CALLS	#3, DUMPSTPARSE		
					0E	50	E8 00154		BLBS	R0, 1\$		
					24	AE	9F 00157		PUSHAB	VALUE_DESC		0411
					00000000*	01	DD 0015A		PUSHL	#1		
					6A	8F	DD 0015C		PUSHL	#<<<DUMPS FACILITY@16>+4344>+4>		0412
					32	03	FB 00162		CALLS	#3, LIB\$STOP		
					66	01	E1 00165	1\$:	BBC	#1, DUMPSGL_FLAGS, 3\$		0420
					24	AE	9F 00169	2\$:	PUSHAB	VALUE_DESC		0423
					0138	C7	9F 0016C		PUSHAB	P.ABM		
			69		02	FB	00170		CALLS	#2, CLISGET_VALUE		
			25		50	E9	00173		BLBC	R0, 3\$		
					00000000*	5B	DD 00176		PUSHL	R11		0425
					2C	EF	9F 00178		PUSHAB	BLKREC_STATES		
					00000000CV	AE	9F 0017E		PUSHAB	VALUE_DESC		
					EF	03	FB 00181		CALLS	#3, DUMPSTPARSE		
					DE	50	E8 00188		BLBS	R0, 2\$		
					24	AE	9F 0018B		PUSHAB	VALUE_DESC		0427
					00000000*	01	DD 0018E		PUSHL	#1		
					6A	8F	DD 0019C		PUSHL	#<<<DUMPS FACILITY@16>+4344>+4>		0428
						03	FB 00196		CALLS	#3, LIB\$STOP		
						CE	11 00199		BRB	2\$		0423
					32	05	E1 0019B	3\$:	BBC	#5, DUMPSGL_FLAGS+1, 5\$		0436
					24	AE	9F 001A0	4\$:	PUSHAB	VALUE_DESC		0439
					0148	C7	9F 001A3		PUSHAB	P.ABO		
			69		02	FB	001A7		CALLS	#2, CLISGET_VALUE		
			25		50	E9	001AA		BLBC	R0, 5\$		
					00000000*	5B	DD 001AD		PUSHL	R11		0441
					2C	EF	9F 001AF		PUSHAB	BLKREC_STATES		
					00000000V	AE	9F 001B5		PUSHAB	VALUE_DESC		
					EF	03	FB 001B8		CALLS	#3, DUMPSTPARSE		
					DE	50	E8 001BF		BLBS	R0, 4\$		
					24	AE	9F 001C2		PUSHAB	VALUE_DESC		0443
					00000000*	01	DD 001C5		PUSHL	#1		
					6A	8F	DD 001C7		PUSHL	#<<<DUMPS FACILITY@16>+4344>+4>		0444
						03	FB 001CD		CALLS	#3, LIB\$STOP		
						CE	11 001D0		BRB	4\$		0439
					01	A6	95 001D2	5\$:	TSTB	DUMPSGL_FLAGS+1		0453
					14	18	001D5		BGEQ	6\$		
			10	02	A6	E9	001D7		BLBC	DUMPSGL_FLAGS+2, 6\$		

08	A6	04	A6	D1	001DB	CMPL	DUMPSGL_START_QUAL, DUMPSGL_END_QUAL	0454
			09	1B	001E0	BLEQU	6\$	
		00000000G	8F	DD	001E2	PUSHL	#DUMPS_BADRANGE	0456
	6A		01	FB	001E8	CALLS	#1, LIB\$STOP	
00000000G	00		00	FB	001EB	CALLS	#0, LIB\$LP_LINES	0461
	F4		A0	9E	001F2	MOVAB	-6(R0), DUMPSGL_LPP	
		FA	6E	D4	001F7	CLRL	FIND_CONTEXT	0466
			AE	9F	001F9	PUSHAB	FIND_RELATED	0469
		34	AE	9F	001FC	PUSHAB	FIND_DEFAULT	
		30	AE	9F	001FF	PUSHAB	FIND_CONTEXT	
		08	AE	9F	00202	PUSHAB	FIND_RESULT	
		48	AE	9F	00205	PUSHAB	INPUT_DESC	
		24	05	FB	00208	CALLS	#5, LIB\$FIND_FILE	
00000000G	00		50	DD	0020F	MOVL	R0, STATUS	
	53		6E	DD	00212	MOVL	FIND_CONTEXT, R2	0475
	52		06	13	00215	BEQL	8\$	
FD14	C6	28	A2	DD	00217	MOVL	40(R2), DUMPSGL_INAM	
0001C04A	8F		53	D1	0021D	CMPL	STATUS, #114762	0476
			09	13	00224	BEQL	9\$	
00018292	8F		53	D1	00226	CMPL	STATUS, #98962	
			41	12	0022D	BNEQ	10\$	
	50	FD14	C6	DD	0022F	MOVL	DUMPSGL_INAM, R0	0479
0147	8F	34	A0	B3	00234	BITW	52(R0), #327	0484
			34	12	0023A	BNEQ	10\$	
	04	00020004	8F	DD	0023C	MOVL	#131076, INPUT_DEVCHAR	0487
	08		A2	9E	00244	MOVAB	64(R2), INPUT_DEVCHAR+4	0489
			AE	7C	00249	CLRQ	INPUT_DEVCHAR+8	0490
			7E	7C	0024C	CLRQ	-(SP)	0494
			7E	7C	0024E	CLRQ	-(SP)	
		14	AE	9F	00250	PUSHAB	INPUT_DEVCHAR	
		28	AE	9F	00253	PUSHAB	INPUT_DESC	
00000000G	7E		03	7D	00256	MOVQ	#3, -(SP)	
	00		08	FB	00259	CALLS	#8, SYSSGETDVI	
00000000G	00		03	DD	00260	PUSHL	#3	0495
	53		01	FB	00262	CALLS	#1, SYSSWAITFR	
	43		01	DD	00269	MOVL	#1, STATUS	0496
000182CA	A2		01	88	0026C	BISB2	#1, 67(R2)	0497
	8F		53	D1	00270	CMPL	STATUS, #99018	0500
			03	12	00277	BNEQ	11\$	
			0083	31	00279	BRW	15\$	
	18		53	E8	0027C	BLBS	STATUS, 12\$	0504
	7E		A2	7D	0027F	MOVQ	8(R2), -(SP)	0510
		08	AE	9F	00283	PUSHAB	FIND_RESULT	0507
		44	01	DD	00286	PUSHL	#1	
			8F	DD	00288	PUSHL	#<<<DUMPS_FACILITY@16>+4248>+2>	0508
00000000G	00	00000000*	05	FB	0028E	CALLS	#5, LIB\$SIGNAL	
			5C	11	00295	BRB	14\$	0504
			AE	9F	00297	PUSHAB	FIND_RESULT	0514
		3C	52	DD	0029A	PUSHL	R2	
00000000V	EF		02	FB	0029C	CALLS	#2, DUMPSOPEN_INPUT	
	40		50	E9	002A3	BLBC	R0, 13\$	
			52	DD	002A6	PUSHL	R2	0515
		20	AE	9F	002AB	PUSHAB	OUTPUT_DESC	
00000000V	EF		02	FB	002AB	CALLS	#2, DUMPSOPEN_OUTPUT	
	31		50	E9	002B2	BLBC	R0, 13\$	
		FDA0	C6	9F	002B5	PUSHAB	DUMPSGL_OFAB	0518
00000000V	EF		01	FB	002B9	CALLS	#1, DUMPSLIST_WIDTH	

DUMPSMAIN
V04-000

H 11
16-Sep-1984 01:26:41
14-Sep-1984 12:21:35

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00000000G	00	2C	A6	9F	002C0	PUSHAB	DUMP\$GQ TIME	:	0519	
	14		01	FB	002C3	CALLS	#1, SYS\$GETTIM	:		
00000000G	00	10	A6	D0	002CA	MOVL	DUMP\$GL NUMBER_QUAL, DUMP\$GL_NUMBER	:	0520	
			00	FB	002CF	CALLS	#0, DUMP\$DUMP_FILE	:	0521	
			52	DD	002D6	PUSHL	R2	:	0522	
00000000V	EF		01	FB	002D8	CALLS	#1, DUMP\$CLOSE_INPUT	:		
00000000V	EF		00	FB	002DF	CALLS	#0, DUMP\$CLOSE_OUTPUT	:	0523	
		3C	AE	9F	002E6	13\$:	PUSHAB	FIND_RESULT	:	0525
		38	AE	9F	002E9		PUSHAB	FIND_RELATED	:	
00000000G	00		02	FB	002EC	CALLS	#2, STR\$COPY_DX	:		
	50	FD14	C6	D0	002F3	14\$:	MOVL	DUMP\$GL_INAM, R0	:	0527
	03	35	A0	E9	002FB	BLBC	53(R0), -15\$:		
			FEFA	31	002FC	BRW	7\$:		
50 00000000'	EF	10000000	8F	C9	002FF	15\$:	BISL3	#268435456, EXIT_STATUS, R0	:	0532
			04	0030B			RET	:	0533	

: Routine Size: 780 bytes, Routine Base: \$CODE\$ + 0029

```

: 424 0534 1 ROUTINE dump$tparse(string, states, keys)=
: 425 0535 2 BEGIN
: 426 0536 2
: 427 0537 2 This routine calls TPARSE given the string, states and keys.
: 428 0538 2
: 429 0539 2 Inputs:
: 430 0540 2
: 431 0541 2 string address of descriptor for string
: 432 0542 2 states address of TPARSE states table
: 433 0543 2 keys address of TPARSE keys table
: 434 0544 2
: 435 0545 2 MAP
: 436 0546 2 string : REF BBLOCK;
: 437 0547 2
: 438 0548 2
: 439 0549 2 CH$FILL(0, tpa$length0, tpa_block); ! Initialize block
: 440 0550 2 tpa_block[tpa$l_count] = tpa$k_count0;
: 441 0551 2 tpa_block[tpa$l_options] = tpa$m_abbrev;
: 442 0552 2 tpa_block[tpa$l_stringcnt] = .string[dsc$w_length];
: 443 0553 2 tpa_block[tpa$l_stringptr] = .string[dsc$a_pointer];
: 444 0554 2 RETURN lib$tparse(tpa_block, .states, .keys); ! Call TPARSE
: 445 0555 1 END;

```

```

                                007C 00000 DUMP$TPARSE:
                                .WORD Save R2,R3,R4,R5,R6
24 00 56 00000000' EF 9E 00002 MOVAB TPA_BLOCK, R6
                                6E 00 2C 00009 MOVCS #0, -(SP), #0, #35, TPA_BLOCK
                                66 00 0000E
                                04 66 08 D0 0000F MOVL #8, TPA_BLOCK
                                A6 02 D0 00012 MOVL #2, TPA_BLOCK+4
                                50 04 AC D0 00016 MOVL STRING, R0
                                08 A6 60 3C 0001A MOVZWL (R0), TPA_BLOCK+8
                                0C A6 04 A0 D0 0001E MOVL 4(R0), TPA_BLOCK+12
                                7E 08 AC 7D 00023 MOVQ STATES, -(SP)
                                00000000G 00 56 DD 00027 PUSHL R6
                                03 FB 00029 CALLS #3, LIB$TPARSE
                                04 00030 RET
: 0534
: 0549
: 0550
: 0551
: 0552
: 0553
: 0554
: 0555

```

; Routine Size: 49 bytes, Routine Base: \$CODE\$ + 0335

```

447 0556 1 ROUTINE dump$store_num=
448 0557 BEGIN
449 0558
450 0559 | This routine is called when the /BLOCKS, /RECORDS, or /NUMBER qualifier
451 0560 | is used. It interrogates flags set by TPARSE to determine which numeric
452 0561 | value has been parsed and stores it in the appropriate result cell.
453 0562
454 0563 IF .dump$gl_flags[dump$v_tpa_start] ! Parsing START
455 0564 THEN
456 0565 BEGIN
457 0566 dump$gl_start_qual = .tpa_block[tpa$l_number];
458 0567 dump$gl_flags[dump$v_start] = true; ! Note START was present
459 0568 END
460 0569 ELSE IF .dump$gl_flags[dump$v_tpa_end] ! Parsing END
461 0570 THEN
462 0571 BEGIN
463 0572 dump$gl_end_qual = .tpa_block[tpa$l_number];
464 0573 dump$gl_flags[dump$v_end] = true; ! Note END was present
465 0574 END
466 0575 ELSE IF .dump$gl_flags[dump$v_tpa_count] ! Parsing COUNT
467 0576 THEN
468 0577 BEGIN
469 0578 dump$gl_count_qual = .tpa_block[tpa$l_number];
470 0579 dump$gl_flags[dump$v_count] = true; ! Note COUNT was present
471 0580 END
472 0581 ELSE IF .dump$gl_flags[dump$v_tpa_number] ! Parsing NUMBER
473 0582 THEN
474 0583 dump$gl_number_qual = .tpa_block[tpa$l_number]
475 0584 ELSE
476 0585 SIGNAL_STOP(dump$_facility*16 + shr$_badlogic + sts$_severe);
477 0586
478 0587
479 0588 dump$gl_flags[dump$v_tpa_start] = false; ! Clear flags for next call
480 0589 dump$gl_flags[dump$v_tpa_end] = false;
481 0590 dump$gl_flags[dump$v_tpa_count] = false;
482 0591 dump$gl_flags[dump$v_tpa_number] = false;
483 0592
484 0593
485 0594 RETURN true ! Return success to TPARSE
486 0595 1 END;

```

```

                                000C 0000 DUMP$STORE_NUM:
                                .WORD Save R2,R3
OB      03      A2      53 00000000' EF 9E 00002 MOVAB TPA_BLOCK+28, R3
                                52 000C0000' EF 9E 00009 MOVAB DUMP$GL_FLAGS, R2
                                04      A2      04 E1 00010 BBC #4, DUMP$GL_FLAGS+3, 1$
                                01      A2      80 63 D0 00015 MCVL TPA_BLOCK+28, DUMP$GL_START_QUAL
                                36 11 0001E BISB2 #128, DUMP$GL_FLAGS+1
OA      03      A2      05 E1 00020 1$: BRB 5$
                                08      A2      63 D0 00025 MOVL TPA_BLOCK+28, DUMP$GL_END_QUAL
                                02      A2      01 88 00029 BISB2 #1, DUMP$GL_FLAGS+2
                                27 11 0002D BRB 5$

```

DUMPSMAIN
V04-000

K 11
16-Sep-1984 01:26:41
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0A	03	A2		06	E1	0002F	2\$:	BBC	#6, DUMP\$GL_FLAGS+3, 3\$:	0575
	0C	A2		63	D0	00034		MOVL	TPA_BLOCK+28, DUMP\$GL_COUNT_QUAL	:	0578
	02	A2		02	88	00038		BISB2	#2, DUMP\$GL_FLAGS+2	:	0579
				18	11	0003C		BRB	5\$:	0575
			03	A2	95	0003E	3\$:	TSTB	DUMP\$GL_FLAGS+3	:	0581
				06	18	00041		BGEQ	4\$:	
	10	A2		63	D0	00043		MOVL	TPA_BLOCK+28, DUMP\$GL_NUMBER_QUAL	:	0583
				0D	11	00047		BRB	5\$:	
			00000000*	8F	DD	00049	4\$:	PUSHL	#<<<DUMP\$ FACILITY@16>+4384>+4>	:	0585
00000000G	00			01	FB	0004F		CALLS	#1, LIB\$STOP	:	
	03	A2	F0	8F	8A	00056	5\$:	BICB2	#240, DUMP\$GL_FLAGS+3	:	0591
		50		01	D0	0005B		MOVL	#1, R0	:	0594
				04	0005E			RET		:	0595

; Routine Size: 95 bytes, Routine Base: \$CODE\$ + 0366


```

: 488 0596 1 ROUTINE dump$open_input(fab, filedesc)=
: 489 0597 2 BEGIN
: 490 0598 3
: 491 0599 4 This routine opens the input file
: 492 0600 5
: 493 0601 6 Inputs:
: 494 0602 7
: 495 0603 8     fab      pointer to an already initialized fab complete with NAM block
: 496 0604 9     filedesc pointer to string descriptor of resultant string from $sparse
: 497 0605 10
: 498 0606 11 Outputs:
: 499 0607 12
: 500 0608 13     File is opened
: 501 0609 14
: 502 0610 15 Routine value:
: 503 0611 16
: 504 0612 17     true    successful
: 505 0613 18     false   error, signal already done
: 506 0614 19
: 507 0615 20 MAP
: 508 0616 21     fab : REF BBLOCK,
: 509 0617 22     filedesc : REF BBLOCK;
: 510 0618 23 LOCAL
: 511 0619 24     ixab : $XABFHC_DECL,
: 512 0620 25     dib  : BBLOCK[dib$c_length],
: 513 0621 26     dibdesc : BBLOCK[dsc$c_s_bln],
: 514 0622 27     status;
: 515 0623 28
: 516 0624 29
: 517 0625 30 dump$gl_ifab = .fab;           ! Set pointer to FAB
: 518 0626 31 dump$gl_inam = .fab[fab$l_nam]; ! and NAM block
: 519 0627 32
: 520 0628 33 fab[fab$b_shr]=fab$m_get OR fab$m_put OR fab$m_upi; ! Open file shared.
: 521 0629 34
: 522 0630 35 IF .BBLOCK[fab[fab$l_dev], dev$v_net]           ! If network device
: 523 0631 36 THEN
: 524 0632 37 BEGIN
: 525 0633 38     IF .dump$gl_flags[dump$v_allocated]         ! Ensure no conflicting
: 526 0634 39     OR .dump$gl_flags[dump$v_blocks]           ! qualifiers
: 527 0635 40     OR .dump$gl_flags[dump$v_header]
: 528 0636 41     THEN
: 529 0637 42         SIGNAL_STOP(dump$_devquals);
: 530 0638 43
: 531 0639 44
: 532 0640 45     dump$gl_flags[dump$v_records] = true;     ! Force record mode
: 533 0641 46     END;
: 534 0642 47
: 535 0643 48
: 536 0644 49 IF .BBLOCK[fab[fab$l_dev], dev$v_for]           ! If foreign device
: 537 0645 50 OR (NOT .BBLOCK[fab[fab$l_dev], dev$v_fod]     ! or not disk, tape, or network
: 538 0646 51 AND NOT .BBLOCK[fab[fab$l_dev], dev$v_net])
: 539 0647 52 THEN
: 540 0648 53 BEGIN
: 541 0649 54     IF .dump$gl_flags[dump$v_allocated]         ! Ensure no file-oriented
: 542 0650 55     OR .dump$gl_flags[dump$v_records]           ! qualifiers
: 543 0651 56     OR .dump$gl_flags[dump$v_header]
: 544 0652 57     THEN
```

```

: 545      0653      SIGNAL_STOP(dump$_devquals);
: 546      0654
: 547      0655
: 548      0656      IF (.dump$gl_inam[nam$_l_fnb] AND          ! Ensure nothing except device
: 549      0657      (nam$_m_exp_dir OR
: 550      0658      nam$_m_exp_name OR
: 551      0659      nam$_m_exp_type OR
: 552      0660      nam$_m_exp_ver OR
: 553      0661      nam$_m_wildcard)) NEQ 0
: 554      0662      THEN
: 555      0663      SIGNAL_STOP(dump$_devspec);
: 556      0664      END
: 557      0665      ELSE
: 558      0666      BEGIN
: 559      0667      IF NOT .BBLOCK[fab[fab$_l_dev], dev$_v_rnd] ! Ensure no disk-oriented
: 560      0668      AND .dump$gl_flags[dump$_v_allocated] ! qualifiers on tape
: 561      0669      THEN
: 562      0670      SIGNAL_STOP(dump$_devquals);
: 563      0671
: 564      0672
: 565      P 0673      $XABFHC_INIT(xab=ixab,          ! Initialize XAB
: 566      0674      nxt=0);
: 567      0675      fab[fab$_l_xab] = ixab;          ! Set pointer to XAB
: 568      0676      END;
: 569      0677
: 570      0678
: 571      0679      IF NOT .dump$gl_flags[dump$_v_records]
: 572      0680      THEN
: 573      0681      fab[fab$_v_ufo] = true          ! Open file only
: 574      0682      ELSE
: 575      0683      fab[fab$_v_get] = fab[fab$_v_sqo] = true; ! Allow GETs, sequential op
: 576      0684
: 577      0685
: 578      0686      IF NOT .BBLOCK[fab[fab$_l_dev], dev$_v_for] ! Do OPEN if not foreign
: 579      0687      THEN
: 580      0688      BEGIN
: 581      0689      IF NOT $OPEN(fab=.fab)          ! Open the input file
: 582      0690      THEN
: 583      0691      BEGIN
: 584      0692      dump$file_error(
: 585      0693      dump$_facility^16 + shr$_openin + sts$_k_error,
: 586      0694      .fab,
: 587      0695      .fab[fab$_l_sts], .fab[fab$_l_stv]);
: 588      0696      fab[fab$_l_xab] = 0;
: 589      0697      RETURN false;
: 590      0698      END;
: 591      0699      END;
: 592      0700
: 593      0701      fab[fab$_l_xab] = 0;
: 594      0702
: 595      0703      IF .BBLOCK[fab[fab$_l_dev], dev$_v_for] ! If foreign device
: 596      0704      OR (NOT .BBLOCK[fab[fab$_l_dev], dev$_v_fod] ! or not disk, tape, or network
: 597      0705      AND NOT .BBLOCK[fab[fab$_l_dev], dev$_v_net])
: 598      0706      THEN
: 599      0707      BEGIN
: 600      0708      dump$gl_idesc[dsc$_w_length] = .dump$gl_inam[nam$_b_dev]; ! Prune to
: 601      0709      dump$gl_idesc[dsc$_a_pointer] = .dump$gl_inam[nam$_l_dev]; ! device only

```

```

: 602      P 0710      status = $ASSIGN(DEVNAM = dump$gl_idesc,      ! Do ASSIGN if foreign
: 603      0711      CHAN = fab[fab$l_stv]);
: 604      0712      IF NOT .status THEN SIGNAL_STOP(.status);
: 605      0713      END
: 606      0714      ELSE
: 607      0715      BEGIN
: 608      0716      dump$gl_idesc[dsc$w_length] = .dump$gl_inam[nam$b_rsl];
: 609      0717      dump$gl_idesc[dsc$a_pointer] = .dump$gl_inam[nam$_rsa];
: 610      0718      END;
: 611      0719
: 612      0720
: 613      0721      IF NOT .dump$gl_flags[dump$w_records]
: 614      0722      THEN
: 615      0723      dump$gl_channel = .fab[fab$l_stv]      ! Save the channel
: 616      0724      ELSE
: 617      0725      BEGIN
: 618      P 0726      $RAB_INIT(rab=dump$gl_irab,      ! Initialize input RAB
: 619      0727      fab=.fab);
: 620      0728      IF NOT $CONNECT(rab=dump$gl_irab)      ! Connect RAB
: 621      0729      THEN
: 622      0730      BEGIN
: 623      0731      dump$file_error(
: 624      0732      dump$_facility^16 + shr$_openin + sts$k_error,
: 625      0733      .fab,
: 626      0734      .dump$gl_irab[rab$l_sts], .dump$gl_irab[rab$l_stv]);
: 627      0735      RETURN false;
: 628      0736      END;
: 629      0737      END;
: 630      0738
: 631      0739
: 632      0740      dump$gl_cur_block = 1;
: 633      0741      dump$gl_max_block = -1;
: 634      0742
: 635      0743      IF .BBLOCK[fab[fab$l_dev], dev$v_rnd]      ! Disk device
: 636      0744      THEN
: 637      0745      IF .BBLOCK[fab[fab$l_dev], dev$v_for]      ! If foreign disk
: 638      0746      THEN
: 639      0747      BEGIN
: 640      0748      dibdesc[dsc$w_length] = dib$c_length;      ! Set up to get device
: 641      0749      dibdesc[dsc$a_pointer] = dib;      ! characteristics
: 642      0750      status = $GETCHN(CHAN=.dump$gl_channel, PRIBUF=dibdesc);
: 643      0751      IF NOT .status
: 644      0752      THEN
: 645      0753      SIGNAL_STOP(dump$_getchn, 0, .status);
: 646      0754      dump$gl_cur_block = 0;
: 647      0755      dump$gl_max_block = .dib[dib$l_maxblock] - 1;
: 648      0756      END
: 649      0757      ELSE
: 650      0758      BEGIN      ! Files-11 disk
: 651      0759
: 652      0760      ! Save FHC information for page heading.
: 653      0761      !
: 654      0762      dump$gl_file_efblk = .ixab[xab$l_ebk];
: 655      0763      IF .dump$gl_file_efblk NEQ 0 AND .ixab[xab$w_ffb] EQL 0
: 656      0764      THEN
: 657      0765      dump$gl_file_efblk = .dump$gl_file_efblk - 1;
: 658      0766      dump$gl_file_hiblk = .fab[fab$l_atq];

```

```

659 0767 3      IF NOT .dump$gl_flags[dump$v_records]      ! Not record mode
660 0768 3      THEN
661 0769 4          BEGIN
662 0770 4          dump$gl_max_block = .dump$gl_file_efblk;
663 0771 4          IF .dump$gl_flags[dump$v_allocated]
664 0772 4          THEN dump$gl_max_block = .dump$gl_file_hiblk;
665 0773 3          END;
666 0774 2      END;
667 0775 2
668 0776 2      IF .dump$gl_flags[dump$v_start]
669 0777 2      THEN
670 0778 2          dump$gl_cur_block = MAXU(.dump$gl_cur_block, .dump$gl_start_qual);
671 0779 2
672 0780 2      IF .BBLOCK[fab[fab$l_dev], dev$v_for]
673 0781 2      AND .dump$gl_cur_block GTRU .dump$gl_max_block
674 0782 2      THEN SIGNAL_STOP(dump$_badstart, 1, .dump$gl_max_block);
675 0783 2
676 0784 2      IF .dump$gl_flags[dump$v_end]
677 0785 2      THEN
678 0786 2          dump$gl_max_block = MINU(.dump$gl_max_block, .dump$gl_end_qual);
679 0787 2
680 0788 2      IF .dump$gl_flags[dump$v_count]
681 0789 2      THEN
682 0790 2          IF .dump$gl_flags[dump$v_start]
683 0791 2          THEN
684 0792 2              dump$gl_max_block = MINU(.dump$gl_max_block,
685 0793 2              .dump$gl_start_qual + .dump$gl_count_qual - 1)
686 0794 2          ELSE
687 0795 2              dump$gl_max_block = MINU(.dump$gl_max_block,
688 0796 2              .dump$gl_cur_block + .dump$gl_count_qual - 1);
689 0797 2
690 0798 2      dump$gl_record = 0;
691 0799 2      IF NOT .dump$gl_flags[dump$v_records]
692 0800 2      AND .BBLOCK[fab[fab$l_dev], dev$v_rnd]
693 0801 2      THEN
694 0802 2          dump$gl_record = .dump$gl_cur_block - 1;
695 0803 2
696 0804 2
697 0805 2      ! Allocate input buffer.
698 0806 2      !
699 0807 2      !
700 0808 2      IF .dump$gl_flags[dump$v_records]      ! If record dump
701 0809 2      THEN
702 0810 2          dump$gl_buffer[dsc$w_length] = dump$c_rmsbufsz      ! Largest RMS record
703 0811 2      ELSE
704 0812 2          IF .BBLOCK[fab[fab$l_dev], dev$v_sqd]
705 0813 2          THEN
706 0814 2              dump$gl_buffer[dsc$w_length] = dump$c_tapbufsz      ! Largest tape QIO
707 0815 2          ELSE
708 0816 2              dump$gl_buffer[dsc$w_length] = dump$c_qiobufsz;      ! Largest non-tape QIO
709 0817 2
710 0818 2
711 0819 2      status = lib$get_vm(      ! Get memory
712 0820 2          dump$gl_buffer[dsc$w_length],
713 0821 2          dump$gl_buffer[dsc$a_pointer]);
714 0822 2      IF NOT .status THEN SIGNAL_STOP(dump$_novirmem, 0, .status);
715 0823 2
```


	25	03	A7	E8	000B3	11\$:	BLBS	3(R7), 12\$	0686	
			56	DD	000B7		PUSHL	R6	0689	
	00000000G	00	01	FB	000B9		CALLS	#1, SYSSOPEN		
		19	50	E8	000C0		BLBS	R0, 12\$		
		7E	08	A6	7D	000C3	MOVQ	8(R6), -(SP)	0695	
			56	DD	000C7		PUSHL	R6	0694	
	00000000V	EF	00000000*	8F	DD	000C9	PUSHL	#<<<DUMPS FACILITY@16>+4248>+2>	0693	
			04	FB	000CF		CALLS	#4, DUMPSFILE_ERROR		
			24	A6	D4	000D6	CLRL	36(R6)	0696	
			01D8	31	000D9		BRW	37\$	0697	
			24	A6	D4	000DC	12\$:	CLRL	36(R6)	0701
		50	FD14	C9	D0	000DF	MOVL	DUMPSGL_INAM, R0	0708	
		08	03	A7	E8	000E4	BLBS	3(R7), T3\$	0703	
2D		67		0E	E0	000E8	BBS	#14, (R7), 14\$	0704	
29		67		0D	E0	000EC	BBS	#13, (R7), 14\$	0705	
	FF50	C9	39	A0	9B	000F0	13\$:	MOVZBW	57(R0), DUMPSGL_IDESC	0708
	FF54	C9	44	A0	D0	000F6	MOVL	68(R0), DUMPSGL_IDESC+4	0709	
				7E	7C	000FC	CLRQ	-(SP)	0711	
			0C	A6	9F	000FE	PUSHAB	12(R6)		
	00000000G	00	FF50	C9	9F	00101	PUSHAB	DUMPSGL_IDESC		
		58		04	FB	00105	CALLS	#4, SYSSASSIGN		
		13		50	D0	0010C	MOVL	R0, STATUS		
				58	E8	0010F	BLBS	STATUS, 15\$	0712	
				58	DD	00112	PUSHL	STATUS		
			6A	01	FB	00114	CALLS	#1, LIB\$STOP		
				0C	11	00117	BRB	15\$	0703	
	FF50	C9	03	A0	9B	00119	14\$:	MOVZBW	3(R0), DUMPSGL_IDESC	0716
	FF54	C9	04	A0	D0	0011F	MOVL	4(R0), DUMPSGL_IDESC+4	0717	
07	01	A9		05	E0	00125	15\$:	BBS	#5, DUMPSGL_FLAGS+1, 16\$	0721
	EC	A9	0C	A6	D0	0012A	MOVL	12(R6), DUMPSGL_CHANNEL	0723	
				3B	11	0012F	BRB	17\$		
0044	8F	00		00	2C	00131	16\$:	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	0727
				FD18	C9	00138				
	FD18	C9	4401	8F	B0	0013B	MOVW	#17409, \$RMS_PTR		
	FD54	C9		56	D0	00142	MOVL	R6, \$RMS_PTR+60		
				FD18	C9	9F	00147	PUSHAB	DUMPSGL_IRAB	0728
	00000000G	00		01	FB	0014B	CALLS	#1, SYSSCONNECT		
		17		50	E8	00152	BLBS	R0, 17\$		
		7E		FD20	C9	7D	00155	MOVQ	DUMPSGL_IRAB+8, -(SP)	0734
				56	DD	0015A	PUSHL	R6	0733	
	00000000V	EF	00000000*	8F	DD	0015C	PUSHL	#<<<DUMPS FACILITY@16>+4248>+2>	0732	
				04	FB	00162	CALLS	#4, DUMPSFILE_ERROR		
				0148	31	00169	BRW	37\$	0735	
		18	A9	01	D0	0016C	17\$:	MOVL	#1, DUMPSGL_CUR_BLOCK	0740
		1C	A9	01	CE	00170	MNEGL	#1, DUMPSGL_MAX_BLOCK	0741	
62		67		1C	E1	00174	BBC	#28, (R7), 21\$	0743	
		38		03	A7	E9	00178	BLBC	3(R7), 19\$	0745
		6E		74	8F	9B	0017C	MOVZBW	#116, DIBDESC	0748
	04	AE		08	AE	9E	00180	MOVAB	DIB, DIBDESC+4	0749
				7E	7C	00185	CLRQ	-(SP)	0750	
				08	AE	9F	00187	PUSHAB	DIBDESC	
				7E	D4	0018A	CLRL	-(SP)		
	00000000G	00	EC	A9	DD	0018C	PUSHL	DUMPSGL_CHANNEL		
		58		05	FB	0018F	CALLS	#5, SYSSGETCHN		
		0D		50	D0	00196	MOVL	R0, STATUS		
				58	E8	00199	BLBS	STATUS, 18\$	0751	
				58	DD	0019C	PUSHL	STATUS	0753	

DUMPSMAIN
V04-000

F 12
16-Sep-1984 01:26:41
14-Sep-1984 12:21:35

VAX-11 Bliss-32 V4.0-742
DISK\$VM\$MASTER:[DUMP.SRC]DUMP.B32;1

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	F8	A9	7FFF	8F	B0	0026C	32\$:	MOVW	#32767, DUMP\$GL_BUFFER	:	0810
				10	11	00272		BRB	35\$:	
06		67		05	E1	00274	33\$:	BBC	#5, (R7), 34\$:	0812
	F8	A9		01	AE	00278		MNEGW	#1, DUMP\$GL_BUFFER	:	0814
				06	11	0027C		BRB	35\$:	
	F8	A9	0200	8F	B0	0027E	34\$:	MOVW	#512, DUMP\$GL_BUFFER	:	0816
			FC	A9	9F	00284	35\$:	PUSHAB	DUMP\$GL_BUFFER+4	:	0821
			F8	A9	9F	00287		PUSHAB	DUMP\$GL_BUFFER	:	0820
00000000G		00		02	FB	0028A		CALLS	#2, LIB\$GET_VM	:	
		58		50	D0	00291		MOVL	R0, STATUS	:	
		0D		58	E8	00294		BLBS	STATUS, 36\$:	0822
				58	DD	00297		PUSHL	STATUS	:	
				7E	D4	00299		CLRL	-(SP)	:	
			00000000G	8F	DD	0029B		PUSHL	#DUMP\$ NOVIRMEM	:	
		6A		03	FB	002A1		CALLS	#3, LIB\$STOP	:	
	FD38	C9	F8	A9	B0	002A4	36\$:	MOVW	DUMP\$GL_BUFFER, DUMP\$GL_IRAB+32	:	0825
	FD3C	C9	FC	A9	D0	002AA		MOVL	DUMP\$GL_BUFFER+4, DUMP\$GL_IRAB+36	:	0826
		50		01	D0	002B0		MOVL	#1, R0	:	0827
					04	002B3		RET		:	
				50	D4	002B4	37\$:	CLRL	R0	:	0828
				04	002B6			RET		:	

; Routine Size: 695 bytes, Routine Base: \$CODE\$ + 03C5


```

779 0886      dump$gl_ofab[fab$l_fna] = UPLIT BYTE('SYSS$OUTPUT');
780 0887      dump$gl_ofab[fab$b_fns] = %CHARCOUNT('SYSS$OUTPUT');
781 0888      END;
782 0889
783 0890
784 0891      IF NOT $CREATE(fab=dump$gl_ofab)
785 0892      THEN
786 0893      BEGIN
787 0894      dump$file_error(
788 0895      dump$_facility^16 + shr$_openout + sts$k_error,
789 0896      dump$gl_ofab,
790 0897      .dump$gl_ofab[fab$l_sts], .dump$gl_ofab[fab$l_stv]);
791 0898      RETURN false;
792 0899      END;
793 0900
794 0901      IF NOT $CONNECT(rab=dump$gl_orab)
795 0902      THEN
796 0903      BEGIN
797 0904      dump$file_error(
798 0905      dump$_facility^16 + shr$_openout + sts$k_error,
799 0906      dump$gl_ofab,
800 0907      .dump$gl_orab[rab$l_sts], .dump$gl_orab[rab$l_stv]);
801 0908      RETURN false;
802 0909      END;
803 0910
804 0911
805 0912      dump$gl_odesc[dsc$w_length] = .dump$gl_onam[nam$b_rsl];
806 0913      dump$gl_odesc[dsc$a_pointer] = .dump$gl_onam[nam$_rsa];
807 0914      RETURN true;
808 0915      END;

```

.PSECT \$SPLITS,NOWRT,NOEXE,2

```

54 55 50 54 55 4F 50 4D 44 2E 00158 P.ABQ: .ASCII \.DMP\
55 55 50 54 55 4F 24 53 59 53 0015C P.ABR: .ASCII \SYSS$OUTPUT\

```

```

$RMS_PTR= DUMPSGL_OFAB
$RMS_PTR= DUMPSGL_ONAM
$RMS_PTR= DUMPSGL_ORAB
.EXTRN SYSS$CREATE

```

.PSECT \$CODE\$,NOWRT,2

007C 0000 DUMPSOPEN OUTPUT:

```

0050 8F      00      56 00000000' EF 9E 00002      .WORD      Save R2,R3,R4,R5,R6      : 0829
      6E      00 2C 00009      MOVAB      $RMS_PTR, R6      :
      66      5003 8F B0 00011      MOVCS      #0, (SP), #0, #80, $RMS_PTR : 0850
      04 A6 20000040 8F D0 00016      MOVW      #20483, $RMS_PTR
      16 A6      01 90 0001E      MOVL      #536870976, $RMS_PTR+4
      1E A6      0202 8F B0 00022      MOVW      #1, $RMS_PTR+22
      28 A6      50 A6 9E 00028      MOVW      #514, $RMS_PTR+30
      30 A6 00000000' EF 9E 0002D      MOVAB      DUMPSGL_ONAM, $RMS_PTR+40
      35 A6      04 90 00035      MOVAB      P.ABQ, $RMS_PTR+48
      MOVW      #4, $RMS_PTR+53

```

0060	8F	00	6E	00	2C	00039	MOVCS	#0, (SP), #0, #96, \$RMS_PTR	0858
				50	A6	00040			
				52	A6	6002	MOVW	#24578, \$RMS_PTR	
				54	A6	00B0	MNEGB	#1, \$RMS_PTR+2	
				5A	A6	00B0	MOVAB	DUMP\$GL_ORSS, \$RMS_PTR+4	
				5C	A6	00B0	MNEGB	#1, \$RMS_PTR+10	
				50	08	AC	MOVAB	DUMP\$GL_ORSS, \$RMS_PTR+12	
				60	A6	28	MOVL	IFAB, R0	
0044	8F	00	6E	00	2C	00065	MOVL	40(R0), \$RMS_PTR+16	0862
					BC	A6	MOVCS	#0, (SP), #0, #68, \$RMS_PTR	
				BC	A6	4401	MOVW	#17409, \$RMS_PTR	
				F8	A6	66	MOVAB	DUMP\$GL_OFAB, \$RMS_PTR+60	
		07	0261	C6	04	E1	BBC	#4, DUMP\$GL_FLAGS+T, 1\$	0867
			05	A6	A0	8F	BISB2	#160, DUMP\$GL_OFAB+5	0871
						25	BRB	3\$	0867
		13	0261	C6	03	E1	BBC	#3, DUMP\$GL_FLAGS+1, 2\$	0874
				50	04	AC	MOVL	OUTPUT_DESC, R0	0877
						60	TSTW	(R0)	
						17	BEQL	3\$	
				2C	A6	04	MOVL	4(R0), DUMP\$GL_OFAB+44	0880
				34	A6	60	MOVB	(R0), DUMP\$GL_OFAB+52	0881
						0C	BRB	3\$	0876
				2C	A6	00000000'	MOVAB	P.ABR, DUMP\$GL_OFAB+44	0886
				34	A6	0A	MOVB	#10, DUMP\$GL_OFAB+52	0887
						56	PUSHL	R6	0891
			00000000G	00	01	FB	CALLS	#1, SYS\$CREATE	
				06	50	E8	BLBS	R0, 4\$	
				7E	08	A6	MOVQ	DUMP\$GL_OFAB+8, -(SP)	0897
						11	BRB	5\$	0894
					BC	A6	PUSHAB	DUMP\$GL_ORAB	0901
			00000000G	00	01	FB	CALLS	#1, SYS\$CONNECT	
				15	50	E8	BLBS	R0, 6\$	
				7E	C4	A6	MOVQ	DUMP\$GL_ORAB+8, -(SP)	0907
						56	PUSHL	R6	0904
						8F	PUSHL	#<<<DUMP\$ FACILITY@16>+4256>+2>	0905
			00000000V	EF	04	FB	CALLS	#4, DUMP\$FILE_ERROR	
						10	BRB	7\$	0908
				0188	C6	53	MOVZBW	DUMP\$GL_ONAM+3, DUMP\$GL_ODESC	0912
				018C	C6	54	MOVL	DUMP\$GL_ONAM+4, DUMP\$GL_ODESC+4	0913
					50	01	MOVL	#1, R0	0914
						04	RET		
					50	D4	CLRL	R0	0915
					04	000FO	RET		

; Routine Size: 241 bytes, Routine Base: \$CODE\$ + 067C

```

810 0916 1 GLOBAL ROUTINE dump$read(bufdesc)=
811 0917 BEGIN
812 0918
813 0919 : This routine reads from the input file.
814 0920
815 0921 MAP
816 0922 bufdesc : REF BBLOCK;
817 0923 LOCAL
818 0924 iosb : VECTOR[4,WORD],
819 0925 status;
820 0926
821 0927
822 0928 IF NOT .dump$gl_flags[dump$v_records] ! If reading with QIO
823 0929 THEN
824 0930 BEGIN
825 0931 IF NOT .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_rnd]
826 0932 THEN
827 0933 BEGIN ! One QIO = one block
828 0934 DECR i FROM 1 TO 0 DO
829 0935 BEGIN
830 0936 status = $QIOW(
831 0937 CHAN=.dump$gl_channel,
832 0938 FUNC=(IF .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_for]
833 0939 THEN ios_readblk
834 0940 ELSE ios_readvblk),
835 0941 IOSB=iosb,
836 0942 P1=.dump$gl_buffer[dsc$a_pointer],
837 0943 P2=.dump$gl_buffer[dsc$w_length]);
838 0944 bufdesc[dsc$w_length] = .iosb[1]; ! Bytes actually read
839 0945 bufdesc[dsc$a_pointer] = .dump$gl_buffer[dsc$a_pointer];
840 0946 IF .status THEN status = .iosb[0];
841 0947
842 0948 IF .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_trm] ! Handle ^Z
843 0949 AND .iosb[2] EQL %D'032' ! from terminal
844 0950 THEN
845 0951 status = ss$_endoffile;
846 0952
847 0953 IF .status EQL ss$_endoffile ! Print message if end of file
848 0954 AND .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_sqd]
849 0955 AND .BBLOCK[dump$gl_ifab[fab$l_dev], dev$v_for]
850 0956 THEN
851 0957 BEGIN
852 0958 dump$blank_line();
853 0959 dump$output_getmsg(dump$_endoffile, %B'0001');
854 0960 IF .i EQL 0 THEN EXITLOOP;
855 0961 END
856 0962 ELSE
857 0963 EXITLOOP;
858 0964 END;
859 0965 END
860 0966 ELSE
861 0967 BEGIN
862 0968 IF .dump$gl_cur_block GTRU .dump$gl_max_block
863 0969 THEN
864 0970 RETURN ss$_endoffile; ! Return EOF status
865 0971 status = $QIOW
866 0972 P CHAN=.dump$gl_channel,

```

```

: 867 P 0973 4      FUNC=(IF .BBLOCK[dump$gl_ifab[fab$l_dev], dev$V_for]
: 868 P 0974 4      THEN ios_readblk
: 869 P 0975 4      ELSE ios_readvblk),
: 870 P 0976 4      !OSB=iosb,
: 871 P 0977 4      P1=.dump$gl_buffer[dsc$a_pointer],
: 872 P 0978 4      P2=512,
: 873 P 0979 4      P3=.dump$gl_cur_block);
: 874 0980 4      IF .status THEN status = .iosb[0];
: 875 0981 4      bufdesc[dsc$w_length] = 512;
: 876 0982 4      bufdesc[dsc$a_pointer] = .dump$gl_buffer[dsc$a_pointer];
: 877 0983 4      dump$gl_cur_block = .dump$gl_cur_block + 1;      ! Advance pointer
: 878 0984 4      END;
: 879 0985 3      IF NOT .status
: 880 0986 3      AND .status NEQ ss$_endoffile
: 881 0987 3      AND .status NEQ ss$_parity
: 882 0988 3      AND .status NEQ ss$_datacheck
: 883 0989 3      AND .status NEQ ss$_endoftape
: 884 0990 3      AND .status NEQ ss$_illblknum
: 885 0991 3      THEN
: 886 0992 4      BEGIN
: 887 0993 4      SIGNAL(
: 888 0994 4      dump$_facility^16 + shr$_readerr + sts$k_error,
: 889 0995 4      1, dump$gl_idesc,
: 890 0996 4      .status);
: 891 0997 4      status = ss$_endoffile;
: 892 0998 4      END
: 893 0999 3      END
: 894 1000 2      ELSE
: 895 1001 3      BEGIN
: 896 1002 3      status = $GET(rab=dump$gl_irab);      ! Get record
: 897 1003 3      bufdesc[dsc$w_length] = .dump$gl_irab[rab$w_rsz];
: 898 1004 3      bufdesc[dsc$a_pointer] = .dump$gl_irab[rab$l_rbf];
: 899 1005 3      IF NOT .status
: 900 1006 3      THEN
: 901 1007 4      BEGIN
: 902 1008 4      IF .status NEQ rms$_eof
: 903 1009 4      THEN
: 904 1010 4      SIGNAL(
: 905 1011 4      dump$_facility^16 + shr$_readerr + sts$k_error,
: 906 1012 4      1, dump$gl_idesc,
: 907 1013 4      .dump$gl_irab[rab$l_sts], .dump$gl_irab[rab$l_stv]);
: 908 1014 4      status = ss$_endoffile;
: 909 1015 3      END;
: 910 1016 2      END;
: 911 1017 2
: 912 1018 2
: 913 1019 2      RETURN .status
: 914 1020 1      END;

```

.EXTRN SYSSQIOW, SYSSGET

```

57 00000000G 00 00FC 0000
56 00000000G 00 009E 00002
55 00000000' EF 009E 00010

```

```

.ENTRY DUMPSREAD, Save R2,R3,R4,R5,R6,R7
MOVAB LIB$SIGNAL, R7
MOVAB SYSSQIOW, R6
MOVAB DUMPSGL_BUFFER+4, R5

```

```

: 0916
:
:

```

		5E		08	C2	00017		SUBL2	#8, SP		
		53		04	AC	0001A		MOVL	BUFDESC, R3		0945
03	05	A5		05	E1	0001E		BBC	#5, DUMP\$GL_FLAGS+1, 1\$		0928
				0119	31	00023		BRW	14\$		
		50	FD14	C5	D0	00026	1\$:	MOVL	DUMP\$GL_IFAB, R0		0931
03	43	A0		04	E1	0002B		BBC	#4, 67(R0), 2\$		
				0081	31	00030		BRW	8\$		
		54		01	D0	00033	2\$:	MOVL	#1, I		0934
				7E	7C	00036	3\$:	CLRQ	-(SP)		0943
				7E	7C	00038		CLRQ	-(SP)		
		7E	FC	A5	3C	0003A		MOVZWL	DUMP\$GL_BUFFER, -(SP)		
				65	DD	0003E		PUSHL	DUMP\$GL_BUFFER+4		
				7E	7C	00040		CLRQ	-(SP)		
				20	AE	9F	00042	PUSHAB	IOSB		
		50	FD14	C5	D0	00045		MOVL	DUMP\$GL_IFAB, R0		
		04	43	A0	E9	0004A		BLBC	67(R0), -4\$		
				21	DD	0004E		PUSHL	#33		
				02	11	00050		BRB	5\$		
				31	DD	00052	4\$:	PUSHL	#49		
				F0	A5	DD	00054	5\$:	PUSHL	DUMP\$GL_CHANNEL	
				7E	D4	00057		CLRL	-(SP)		
		66		0C	FB	00059		CALLS	#12, SYSSQIOW		
		52		50	D0	0005C		MOVL	R0, STATUS		
		04		02	AE	B0	0005F	MOVW	IOSB+2, @BUFDESC		0944
		04		65	D0	00064		MOVL	DUMP\$GL_BUFFER+4, 4(R3)		0945
		03		52	E9	00068		BLBC	STATUS, -6\$		0946
		52		6E	3C	0006B		MOVZWL	IOSB, STATUS		
		50	FD14	C5	D0	0006E	6\$:	MOVL	DUMP\$GL_IFAB, R0		0948
08	40	A0		02	E1	00073		BBC	#2, 64(R0), 7\$		
		1A		04	AE	B1	00078	CMPW	IOSB+4, #26		0949
				05	12	0007C		BNEQ	7\$		
		52	0870	8F	3C	0007E		MOVZWL	#2160, STATUS		0951
		00000870		8F	52	D1	00083	7\$:	CMP	STATUS, #2160	0953
				70	12	0008A		BNEQ	13\$		
68	40	A0		05	E1	0008C		BBC	#5, 64(R0), 13\$		0954
		67		43	A0	E9	00091	BLBC	67(R0), 13\$		0955
		0000000CG		00	FB	00095		CALLS	#0, DUMP\$BLANK_LINE		0958
				01	DD	0009C		PUSHL	#1		0959
		00000000G	00000000G	8F	DD	0009E		PUSHL	#DUMP\$ ENDOFFILE		
				02	FB	000A4		CALLS	#2, DUMP\$OUTPUT_GETMSG		
				54	D5	000AB		TSTL	I		0960
				4D	13	000AD		BEQL	13\$		
		84		54	F4	000AF		SOBGEQ	I, 3\$		0934
				48	11	000B2		BRB	13\$		0931
		20	A5	1C	A5	D1	000B4	8\$:	CMP	DUMP\$GL_CUR_BLOCK, DUMP\$GL_MAX_BLOCK	0968
				06	1B	000B9		BLEQU	9\$		
		50	0870	8F	3C	000BB		MOVZWL	#2160, R0		0970
				04	00	000C0		RET			
				7E	7C	000C1	9\$:	CLRQ	-(SP)		0979
				7E	D4	000C3		CLRL	-(SP)		
				1C	A5	DD	000C5	PUSHL	DUMP\$GL_CUR_BLOCK		
		7E	0200	8F	3C	000C8		MOVZWL	#512, -(SP)		
				65	DD	000CD		PUSHL	DUMP\$GL_BUFFER+4		
				7E	7C	000CF		CLRQ	-(SP)		
				20	AE	9F	000D1	PUSHAB	IOSB		
		04	43	A0	E9	000D4		BLBC	67(R0), 10\$		
				21	DD	000D8		PUSHL	#33		

			02	11	000DA		BRB	11\$		
			31	DD	000DC	10\$:	PUSHL	#49		
		FO	A5	DD	000DE	11\$:	PUSHL	DUMPSGL_CHANNEL		
			7E	D4	000E1		CLRL	-(SP)		
	66		0C	FB	000E3		CALLS	#12, SYSSQIOW		
	52		50	DO	000E6		MOVL	R0, STATUS		
	03		52	E9	000E9		BLBC	STATUS, 12\$		0980
	52		6E	3C	000EC		MOVZWL	IOSB, STATUS		
	04	BC	8F	B0	000EF	12\$:	MOVW	#512, @BUFDESC		0981
	04	A3	65	DO	000F5		MOVL	DUMPSGL_BUFFER+4, 4(R3)		0982
			A5	D6	000F9		INCL	DUMPSGL_CUR_BLOCK		0983
			52	E8	000FC	13\$:	BLBS	STATUS, 16\$		0985
00000870			52	D1	000FF		CMPL	STATUS, #2160		0986
			76	13	00106		BEQL	16\$		
000001F4			52	D1	00108		CMPL	STATUS, #500		0987
			6D	13	0010F		BEQL	16\$		
0000005C			52	D1	00111		CMPL	STATUS, #92		0988
			64	13	00118		BEQL	16\$		
00000878			52	D1	0011A		CMPL	STATUS, #2168		0989
			5B	13	00121		BEQL	16\$		
000000DC			52	D1	00123		CMPL	STATUS, #220		0990
			52	13	0012A		BEQL	16\$		
			52	DD	0012C		PUSHL	STATUS		0996
		FF54	C5	9F	0012E		PUSHAB	DUMPSGL_IDESC		0993
			01	DD	00132		PUSHL	#1		
		00000000*	8F	DD	00134		PUSHL	#<<<DUMPS FACILITY@16>+4272>+2>		0994
	67		04	FB	0013A		CALLS	#4, LIBSSIGNAL		
			3A	11	0013D		BRB	15\$		0997
		FD1C	C5	9F	0013F	14\$:	PUSHAB	DUMPSGL_IRAB		1002
00000000G	00		01	FB	00143		CALLS	#1, SYSSGET		
	52		50	DO	0014A		MOVL	R0, STATUS		
	04	BC	C5	B0	0014D		MOVW	DUMPSGL_IRAB+34, @BUFDESC		1003
	04	A3	C5	DO	00153		MOVL	DUMPSGL_IRAB+40, 4(R3)		1004
			52	E8	00159		BLBS	STATUS, 16\$		1005
0001827A			52	D1	0015C		CMPL	STATUS, #98938		1008
			14	13	00163		BEQL	15\$		
		FD24	C5	7D	00165		MOVQ	DUMPSGL_IRAB+8, -(SP)		1013
		FF54	C5	9F	0016A		PUSHAB	DUMPSGL_IDESC		1010
			01	DD	0016E		PUSHL	#1		
		00000000*	8F	DD	00170		PUSHL	#<<<DUMPS FACILITY@16>+4272>+2>		1011
	67		05	FB	00176		CALLS	#5, LIBSSIGNAL		
	52	0870	8F	3C	00179	15\$:	MOVZWL	#2160, STATUS		1014
	50		52	DO	0017E	16\$:	MOVL	STATUS, R0		1019
			04	00181			RET			1020

: Routine Size: 386 bytes, Routine Base: \$CODE\$ + 076D

```

: 916      1021 1 GLOBAL ROUTINE dump$write(recdesc): NOVALUE=
: 917      1022 2 BEGIN
: 918      1023 3
: 919      1024 4 Write a record to the output file
: 920      1025 5
: 921      1026 6 Inputs:
: 922      1027 7
: 923      1028 8 recdesc pointer to string descriptor for record
: 924      1029 9
: 925      1030 10 MAP
: 926      1031 11 recdesc : REF BBLOCK;
: 927      1032 12
: 928      1033 13
: 929      1034 14 dump$gl_orab[ra$b$w_rsz] = .recdesc[dsc$w_length];
: 930      1035 15 dump$gl_orab[ra$b$l_rbf] = .recdesc[dsc$a_pointer];
: 931      1036 16 IF NOT $PUT(ra$b=dump$gl_orab)
: 932      1037 17 THEN
: 933      1038 18 SIGNAL(
: 934      1039 19 dump$_facility^16 + shr$_writeerr + sts$k_severe,
: 935      1040 20 1, dump$gl_odesc,
: 936      1041 21 .dump$gl_orab[ra$b$l_sts], .dump$gl_orab[ra$b$l_stv]);
: 937      1042 22 END;

```

					.EXTRN	SYSSPUT	
			0004	00000	.ENTRY	DUMP\$WRITE, Save R2	: 1021
	52	00000000'	EF	9E 00002	MOVAB	DUMP\$GL_ORAB+34, R2	
	50	04	AC	D0 00009	MOVL	RECDESC, R0	: 1034
	62		60	B0 0000D	MOVW	(R0), DUMP\$GL_ORAB+34	
06	A2	04	A0	D0 00010	MOVL	4(R0), DUMP\$GL_ORAB+40	: 1035
		DE	A2	9F 0C015	PUSHAB	DUMP\$GL_ORAB	: 1036
00000000G	00		01	FB 00018	CALLS	#1, SYSSPUT	
	17		50	EB 0001F	BLBS	R0, 1\$	
	7E	E6	A2	7D 00022	MOVQ	DUMP\$GL_ORAB+8, -(SP)	: 1041
		01DA	C2	9F 00026	PUSHAB	DUMP\$GL_ODESC	: 1038
			01	DD 0002A	PUSHL	#1	
00000000G	00	00000000*	8F	DD 0002C	FUSHL	#<<<DUMP\$_FACILITY@16>+4304>+4>	: 1039
			05	FB 00032	CALLS	#5, LIB\$SIGNAL	
			04	00039 1\$:	RET		: 1042

: Routine Size: 58 bytes, Routine Base: \$CODE\$ + 08EF


```

: 939 1043 1 ROUTINE dump$close_input(fab): NOVALUE=
: 940 1044 2 BEGIN
: 941 1045 2
: 942 1046 2 | Close the input file
: 943 1047 2
: 944 1048 2 | Inputs:
: 945 1049 2
: 946 1050 2 |     fab      Address of fab
: 947 1051 2
: 948 1052 2 MAP
: 949 1053 2     fab : REF BBLOCK;
: 950 1054 2 LOCAL
: 951 1055 2     status;
: 952 1056 2
: 953 1057 2
: 954 1058 2 IF .dump$gl_flags[dump$v_records]           ! If RMS dump
: 955 1059 2 THEN
: 956 1060 2     BEGIN
: 957 1061 2     IF NOT $CLOSE(fab=.fab)           ! Close fab
: 958 1062 2     THEN
: 959 1063 2         SIGNAL(
: 960 1064 2             dump$_facility^16 + shr$_closein + sts$_k_error,
: 961 1065 2             1, dump$_gl_idesc,
: 962 1066 2             .fab[fab$_l_sts], .fab[fab$_l_stv]);
: 963 1067 2     END
: 964 1068 2 ELSE
: 965 1069 2     BEGIN
: 966 1070 2     status = $DASSGN(CHAN=.dump$_gl_channel);   ! Else deassign channel
: 967 1071 2     IF NOT .status
: 968 1072 2     THEN
: 969 1073 2         SIGNAL(
: 970 1074 2             dump$_facility^16 + shr$_closein + sts$_k_error,
: 971 1075 2             1, dump$_gl_idesc,
: 972 1076 2             .status);
: 973 1077 2     END;
: 974 1078 2
: 975 1079 2
: 976 1080 2 | Free input buffer.
: 977 1081 2
: 978 1082 2 IF .dump$_gl_buffer[dsc$a_pointer] NEQ 0
: 979 1083 2 THEN
: 980 1084 2     lib$free_vm(dump$_gl_buffer[dsc$_w_length], dump$_gl_buffer[dsc$a_pointer]);
: 981 1085 1 END;

```

.EXTRN SYS\$CLOSE, SYS\$DASSGN

001C 00000 DUMPCLOSE INPUT:

		54	00000000G	00	9E	00002	.WORD	Save R2,R3,R4	: 1043
		53	00000000'	EF	9E	00009	MOVAB	LIB\$SIGNAL, R4	:
23	00B1	C3		05	E1	00010	MOVAB	DUMPCLOSE IDESC, R3	: 1058
		52	04	AC	D0	00016	BBC	#5, DUMPCLOSE_FLAGS+1, 1\$: 1061
				52	DD	0001A	MOVL	FAB, R2	:
		00		01	FB	0001C	PUSHL	R2	:
		30		50	E8	00023	CALLS	#1, SYS\$CLOSE	:
							BLBS	R0, 2\$:

DUMPSMAIN
V04-000

C 13
16-Sep-1984 01:26:41
14-Sep-1984 12:21:35

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[DUMP.SRC]DUMP.B32;1

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(12)

7E	08	A2	7D	00026	MOVQ	8(R2), -(SP)	:	1066
		S3	DD	0002A	PUSHL	R3	:	1063
		01	DD	0002C	PUSHL	#1	:	
	00000000*	8F	DD	0002E	PUSHL	#<<<DUMPS\$ FACILITY@16>+4176>+2>	:	1064
64		05	FB	00034	CALLS	#5, LIB\$SIGNAL	:	
		1D	11	00037	BRB	2\$:	1058
	009C	C3	DD	00039	1\$: PUSHL	DUMPS\$GL_CHANNEL	:	1070
00000000G	00	01	FB	0003D	CALLS	#1, SYS\$DASSGN	:	
	0F	50	E8	00044	BLBS	STATUS, 2\$:	1071
		50	DD	00047	PIJSHL	STATUS	:	1076
		S3	DD	00049	PUSHL	R3	:	1073
		01	DD	0004B	PUSHL	#1	:	
	00000000*	8F	DD	0004D	PUSHL	#<<<DUMPS\$ FACILITY@16>+4176>+2>	:	1074
64		04	FB	00053	CALLS	#4, LIB\$SIGNAL	:	
	00AC	C3	D5	00056	2\$: TSTL	DUMPS\$GL_BUFFER+4	:	1082
		0F	13	0005A	BEQL	3\$:	
	00AC	C3	9F	0005C	PUSHAB	DUMPS\$GL_BUFFER+4	:	1084
	00A8	C3	9F	00060	PUSHAB	DUMPS\$GL_BUFFER	:	
00000000G	00	02	FB	00064	CALLS	#2, LIB\$FREE_VM	:	1085
		04	0006B	3\$: RET			:	

; Routine Size: 108 bytes, Routine Base: \$CODE\$ + 0929

```

: 983      1086 1 ROUTINE dump$close_output: NOVALUE=
: 984      1087 2 BEGIN
: 985      1088 2
: 986      1089 2 Close the output file
: 987      1090 2
: 988      1091 2 Inputs:
: 989      1092 2
: 990      1093 2
: 991      1094 2 IF NOT $CLOSE(fab=dump$gl_ofab)
: 992      1095 2 THEN
: 993      1096 2     SIGNAL(
: 994      1097 2         dump$_facility^16 + shr$_closeout + sts$_error,
: 995      1098 2         1, dump$gl_odesc,
: 996      1099 2         .dump$gl_ofab[fab$_sts], .dump$gl_ofab[fab$_stv]);
: 997      1100 1 END;

```

```

                                0004 0000 DUMP$CLOSE OUTPUT:
                                .WORD   Save R2
                                MOVAB   DUMP$GL_OFAB, R2
                                PUSHL   R2
                                CALLS   #1, SYS$CLOSE
                                BLBS    RO, 1$
                                MOVQ   DUMP$GL_OFAB+8, -(SP)
                                PUSHAB  DUMP$GL_ODESC
                                PUSHL   #1
                                PUSHL   #<<<DUMP$_FACILITY@16>+4184>+2>
                                CALLS   #5, LIB$SIGNAL
                                RET
00000000G 52 00000000' EF 9E 00002
00000000G 00          52 DD 00009
17          01 FB 0000B
7E          50 EB 00012
           08 A2 7D 00015
           0188 C2 9F 00019
           01 DD 0001D
00000000G 00 00000000* 8F DD 0001F
           05 FB 00025
           04 0002C 1$:

```

: Routine Size: 45 bytes, Routine Base: \$CODE\$ + 0995

```

: 999      1101 1 ROUTINE dump$list_width(fab): NOVALUE=
: 1000     1102 2 BEGIN
: 1001     1103 2
: 1002     1104 2 | Determine the width of the listing line
: 1003     1105 2 | FAB is the fab of the open file, width returned in dump$gl_width,
: 1004     1106 2 | and dump$gl_outdesc set up as string descriptor for output buffer
: 1005     1107 2
: 1006     1108 2 MAP
: 1007     1109 2   fab : REF BBLOCK;
: 1008     1110 2 BIND
: 1009     1111 2   nam = .fab[fab$l_nam] : BBLOCK;
: 1010     1112 2 LOCAL
: 1011     1113 2   devnamdesc : BBLOCK[dsc$c_s_bln],
: 1012     1114 2   devnambuf : VECTOR[nam$c_maxrss, BYTE],
: 1013     1115 2   devnambufdesc : BBLOCK[dsc$c_s_bln],
: 1014     1116 2   devinfobuf : BBLOCK[dib$k_length],
: 1015     1117 2   devinfodesc : BBLOCK[dsc$c_s_bln];
: 1016     1118 2 LITERAL
: 1017     1119 2   ch_escape = %0'033';           ! ASCII <ESC>
: 1018     1120 2
: 1019     1121 2
: 1020     1122 2   dump$gl_width = dump$c_deflisiz;       ! Assume default
: 1021     1123 2
: 1022     1124 2   devnamdesc[dsc$a_pointer] = .nam[nam$l_dev];
: 1023     1125 2   devnamdesc[dsc$w_length] =
: 1024     1126 2     CH$FIND_CH(.nam[nam$b_dev], .nam[nam$l_dev], %C':')
: 1025     1127 2     - .nam[nam$l_dev];
: 1026     1128 2   devnambufdesc[dsc$w_length] = nam$c_maxrss;
: 1027     1129 2   devnambufdesc[dsc$a_pointer] = devnambuf;
: 1028     1130 2   $TRNLOG(LOGNAM=devnamdesc, RSLLEN=devnambufdesc, RSLBUF=devnambufdesc);
: 1029     1131 2   IF .devnambuf[0] EQL ch_escape           ! If process permanent file
: 1030     1132 2   THEN
: 1031     1133 2     BEGIN
: 1032     1134 2     devnambufdesc[dsc$w_length] = .devnambufdesc[dsc$w_length] - 4;
: 1033     1135 2     devnambufdesc[dsc$a_pointer] = .devnambufdesc[dsc$a_pointer] + 4;
: 1034     1136 2     END;
: 1035     1137 2
: 1036     1138 2
: 1037     1139 2   ! Do a $GETDEV to get the width.
: 1038     1140 2
: 1039     1141 2   devinfodesc[dsc$w_length] = dib$k_length;       ! Set up descriptor for $GETDEV
: 1040     1142 2   devinfodesc[dsc$a_pointer] = devinfobuf;
: 1041     1143 2   IF $GETDEV(DEVNAM=devnambufdesc, SCDBUF=devinfodesc)
: 1042     1144 2   THEN
: 1043     1145 2     dump$gl_width = MINU(.devinfobuf[dib$w_devbufsiz], dump$c_maxlisiz);
: 1044     1146 2
: 1045     1147 2
: 1046     1148 2   ! Set up output buffer descriptor.
: 1047     1149 2
: 1048     1150 2   dump$gl_outdesc[dsc$w_length] = .dump$gl_width;
: 1049     1151 2   dump$gl_outdesc[dsc$a_pointer] = dump$ab_outbuf;
: 1050     1152 1   END;           ! Of dump$list_width

```

```
.EXTRN SYS$TRNLOG, SYS$GETDEV
```

000C 0000 DUMPSLIST WIDTH:				WORD					
	53	00000000	EF	9E	00002	Save R2,R3	1101		
	5E	FE74	CE	9E	00009	DUMPSGL WIDTH, R3			
	50	04	AC	D0	0000E	-396(SPT), SP	1111		
	52	28	A0	D0	00012	FAB, R0			
	63	50	8F	9A	00016	40(R0), R2	1122		
	FC	AD	A2	D0	0001A	#80, DUMPSGL WIDTH	1124		
44	B2	50	A2	9A	0001F	68(R2), DEVNAMDESC+4	1126		
		50	3A	3A	00023	57(R2), R0			
			02	12	00028	#58, R0, @68(R2)			
			51	D4	0002A	1\$			
F8	AD	51	A2	A3	0002C	R1	1127		
	7C	AE	8F	9B	00032	68(R2), R1, DEVNAMDESC	1128		
	0080	CE	9E	00037	MOVZBW	#255, DEVNAMBUFDESC	1129		
			7E	7C	0003E	MOVAB	DEVNAMBUF, DEVNAMBUFDESC+4	1130	
			7E	D4	00040	CLRQ	-(SP)		
		0088	CE	9F	00042	CLRL	-(SP)		
		008C	CE	9F	00046	PUSHAB	DEVNAMBUFDESC		
		F8	AD	9F	0004A	PUSHAB	DEVNAMBUFDESC		
	00000000G	00	06	FB	0004D	PUSHAB	DEVNAMDESC		
		1B	0084	CE	91	CALLS	#6, SYS\$TRNLOG		
				09	12	CMPB	DEVNAMBUF, #27	1131	
				04	A2	BNEQ	2\$		
	7C	AE	04	A2	0005B	SUBW2	#4, DEVNAMBUFDESC	1134	
	0080	CE	04	C0	0005F	ADDL2	#4, DEVNAMBUFDESC+4	1135	
		6E	74	8F	9B	00064	MOVZBW	#116, DEVINFODESC	1141
	04	AE	08	AE	9E	00068	MOVAB	DEVINFOBUF, DEVINFODESC+4	1142
				5E	DD	0006D	PUSHL	SP	1143
				7E	7C	0006F	CLRQ	-(SP)	
				7E	D4	00071	CLRL	-(SP)	
		008C	CE	9F	00073	PUSHAB	DEVNAMBUFDESC		
	00000000G	00	05	FB	00077	CALLS	#5, SYS\$GETDEV		
		12	50	E9	0007E	BLBC	R0, 4\$		
		50	0E	AE	3C	00081	MOVZWL	DEVINFOBUF+6, R0	1145
	0084	8F	50	B1	00085	CMPW	R0, #132		
			04	1B	0008A	BLEQU	3\$		
		50	84	8F	9A	0008C	MOVZBL	#132, R0	
		63	50	D0	00090	MOVL	R0, DUMPSGL WIDTH		
	F4	A3	63	B0	00093	MOVW	DUMPSGL_WIDTH, DUMPSGL_OUTDESC	1150	
	F8	A3	FF70	C3	9E	00097	MOVAB	DUMPSAB_OUTBUF, DUMPSGL_OUTDESC+4	1151
				04	0009D	RET		1152	

; Routine Size: 158 bytes, Routine Base: \$CODE\$ + 09C2

```

: 1052      1153 1 ROUTINE dump$file_error(message,fab,sts,stv): NOVALUE=
: 1053      1154 2 BEGIN
: 1054      1155 2 +-
: 1055      1156 2 | FUNCTIONAL DESCRIPTION:
: 1056      1157 2 |
: 1057      1158 2 |     This routine signals an error for a file.
: 1058      1159 2 |
: 1059      1160 2 | Inputs:
: 1060      1161 2 |
: 1061      1162 2 |     message      Message
: 1062      1163 2 |     fab          Address of the fab
: 1063      1164 2 |     sts, stv    STS and STV values
: 1064      1165 2 |
: 1065      1166 2 | --
: 1066      1167 2 |
: 1067      1168 2 MAP
: 1068      1169 2     fab : REF BBLOCK;
: 1069      1170 2 BIND
: 1070      1171 2     nam = .fab[fab$_nam] : BBLOCK;
: 1071      1172 2 LOCAL
: 1072      1173 2     filedesc : BBLOCK[dsc$_s_bln];
: 1073      1174 2 |
: 1074      1175 2 |
: 1075      1176 2 CH$FILL(0, dsc$_s_bln, filedesc);
: 1076      1177 2 |
: 1077      1178 2 IF .nam[nam$_rsl] NEQ 0           ! If resultant name present
: 1078      1179 2 THEN
: 1079      1180 2     BEGIN
: 1080      1181 2     filedesc[dsc$_w_length] = .nam[nam$_rsl];
: 1081      1182 2     filedesc[dsc$_a_pointer] = .nam[nam$_rsa];
: 1082      1183 2     END
: 1083      1184 2 ELSE IF .nam[nam$_esl] NEQ 0       ! If expanded name present
: 1084      1185 2 THEN
: 1085      1186 2     BEGIN
: 1086      1187 2     filedesc[dsc$_w_length] = .nam[nam$_esl];
: 1087      1188 2     filedesc[dsc$_a_pointer] = .nam[nam$_esa];
: 1088      1189 2     END
: 1089      1190 2 ELSE
: 1090      1191 2     BEGIN
: 1091      1192 2     filedesc[dsc$_w_length] = .fab[fab$_fns];   ! Use filename string
: 1092      1193 2     filedesc[dsc$_a_pointer] = .fab[fab$_fna]; ! if all else fails
: 1093      1194 2     END;
: 1094      1195 2 |
: 1095      1196 2 |
: 1096      1197 2 SIGNAL(.message, 1, filedesc, .sts, .stv);
: 1097      1198 1 END;           ! Of dump$file_error

```

```

                                00FC 0000 DUMPSFILE ERROR:
                                .WORD  Save R2,R3,R4,R5,R6,R7           : 1153
                                SUBL2  #8, SP                          :
                                MOVL   FAB, R7                          : 1171
                                MOVL   40(R7), R6                       :
                                MOVCS  #0, (SP), #0, #8, FILEDESC      : 1176
08      00      5E      08      C2 00002
      57      08      AC  D0 00005
      56      28      A7  D0 00009
      6E      00      2C 0000D

```


: 1099 1199 1 END
: 1100 1200 0 ELUDOM

.EXTRN LIB\$SIGNAL, LIB\$STOP

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	804	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	40	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
-LIB\$KEYOS	8	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$STATES	86	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
-LIB\$KEY1S	17	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(1)
\$CODES	2736	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	358	NOVEC, NOWRT, 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	178	1	581	00:00.8
-\$255\$DUA28:[SYSLIB]TPAMAC.L32;1	42	28	66	14	00:00.1

COMMAND QUALIFIERS

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

: Size: 2736 code + 1313 data bytes
: Run Time: 00:36.6
: Elapsed Time: 02:26.3
: Lines/CPU Min: 1965
: Lexemes/CPU-Min: 55923
: Memory Used: 319 pages
: Compilation Complete

