



```

FFFFFFFFF  RRRRRRR  MM      MM  HH      HH  DDDDDDD  RRRRRRR
FFFFFFFFF  RRRRRRR  MM      MM  HH      HH  DDDDDDD  RRRRRRR
FF          RR      RR  MMMM  MMMM  HH      HH  DD      DD  RR      RR
FF          RR      RR  MMMM  MMMM  HH      HH  DD      DD  RR      RR
FF          RR      RR  MM    MM  HH      HH  DD      DD  RR      RR
FFFFFFFFF  RRRRRRR  MM      MM  HHHHHHHHH  DD      DD  RRRRRRR
FFFFFFFFF  RRRRRRR  MM      MM  HHHHHHHHH  DD      DD  RRRRRRR
FF          RR  RR  MM      MM  HH      HH  DD      DD  RR  RR
FF          RR  RR  MM      MM  HH      HH  DD      DD  RR  RR
FF          RR      RR  MM      MM  HH      HH  DD      DD  RR  RR
FF          RR      RR  MM      MM  HH      HH  DD      DD  RR  RR
FF          RR      RR  MM      MM  HH      HH  DDDDDDD  RR  RR
FF          RR      RR  MM      MM  HH      HH  DDDDDDD  RR  RR

```

```

LL          IIIII  SSSSSSS
LL          IIIII  SSSSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SSSSSS
LL          II     SSSSSS
LL          II     SS
LL          II     SS
LL          II     SS
LL          II     SS
LLLLLLLLLL IIIII  SSSSSSS
LLLLLLLLLL IIIII  SSSSSSS

```

```

1 0001 0 MODULE FRMHDR (LANGUAGE (BLISS32) ,
2 0002 0 IDENT = 'V04-000' ,
3 0003 0 ) =
4 0004 1 BEGIN
5 0005 1
6 0006 1 *****
7 0007 1 *
8 0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
9 0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
10 0010 1 * ALL RIGHTS RESERVED. *
11 0011 1 *
12 0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
13 0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
14 0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
15 0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
16 0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
17 0017 1 * TRANSFERRED. *
18 0018 1 *
19 0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
20 0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
21 0021 1 * CORPORATION. *
22 0022 1 *
23 0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
24 0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
25 0025 1 *
26 0026 1 *
27 0027 1 *****
28 0028 1
29 0029 1 ++
30 0030 1
31 0031 1 FACILITY: MTAACP
32 0032 1
33 0033 1 ABSTRACT:
34 0034 1
35 0035 1 This module formats HDR1, HDR2, HDR3, and HDR4.
36 0036 1
37 0037 1 ENVIRONMENT:
38 0038 1
39 0039 1 Starlet operating system, including privileged system services
40 0040 1 and internal exec routines.
41 0041 1
42 0042 1 --
43 0043 1
44 0044 1
45 0045 1
46 0046 1 AUTHOR: D. H. GILLESPIE, CREATION DATE: 2-JUN-77 14:35
47 0047 1
48 0048 1 MODIFIED BY:
49 0049 1
50 0050 1 V03-003 MMD0301 Meg Dumont, 20-Jun-1984 11:26
51 0051 1 Fix to default HDR4 file extension to ASCII zeros instead of
52 0052 1 decimal zeros
53 0053 1
54 0054 1 V03-002 MMD0279 Meg Dumont, 23-Mar-1984 10:25
55 0055 1 Fix long file name support such that for ANSI version
56 0056 1 3 volumes it converts the exentsion length to
57 0057 1 ASCII characters before writing it to the label.

```

```
58 0058 1
59 0059 1 V03-001 MMD0160 Meg Dumont, 26-Apr-1983 9:31
60 0060 1 Add long file name support include: 1) Change FORMAT_FILE_NAME
61 0061 1 to understand that VMS long file names are split between
62 0062 1 the HDR1 and HDR4 labels. 2) Change FORMAT_HDRS to format the
63 0063 1 HDR4. Added support for interchange qualifier.
64 0064 1
65 0065 1 V02-012 DMW00069 David Michael Walp 11-Jan-1981
66 0066 1 Added support of ANSI 'a' 17 character filename thru
67 0067 1 QIO filename parameter
68 0068 1
69 0069 1 V02-011 DMW00064 David Michael Walp 6-Jan-1981
70 0070 1 Return VMS file spec created by ASCNAME without quotes
71 0071 1
72 0072 1 V02-010 DMW00063 David Michael Walp 18-Dec-1981
73 0073 1 Finished ANSI 'a' 17 character file name support
74 0074 1
75 0075 1 V02-009 DMW00053 David Michael Walp 10-Nov-1981
76 0076 1 Return if ANSI resultant name, return it minus trailing
77 0077 1 spaces.
78 0078 1
79 0079 1 V02-008 DMW00043 David Michael Walp 27-Oct-1981
80 0080 1 Added ANSI 'a' 17 character file name support
81 0081 1
82 0082 1 V02-007 DMW00016 David Michael Walp 20-May-1981
83 0083 1 Get the File Set Id from the MVL rather than 1st volume
84 0084 1 mounted label in the VCB.
85 0085 1
86 0086 1 V02-006 DMW00008 David Michael Walp 23-Jan-1981
87 0087 1 Added check for 'X' wild card, needed because of expanded
88 0088 1 wild card support. Also code commented out for support of
89 0089 1 HDR2 attributes.
90 0090 1
91 0091 1 V02-005 REFORMAT Maria del C. Nasr 30-Jun-1980
92 0092 1
93 0093 1 A0004 MCN0008 Maria del C. Nasr 22-Feb-1980 16:29
94 0094 1 Temporary support of RMS attributes in HDR2
95 0095 1
96 0096 1 A0003 MCN0003 Maria del C. Nasr 28-Sep-79 10:23
97 0097 1 Add HDR3 processing
98 0098 1
99 0099 1 **
100 0100 1
101 0101 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
102 0102 1
103 0103 1 REQUIRE 'SRC$:MTADEF.B32';
104 0487 1
105 0488 1 FORWARD ROUTINE
106 0489 1 FORMAT_HDRS : COMMON_CALL NOVALUE; ! format headers
```

```
108 M 0490 1 MACRO RAD50_TO_VMS ( STRING, VERSION, OUT_INDEX ) =
109 M 0491 1
110 M 0492 1 +-
111 M 0493 1
112 M 0494 1 FUNCTIONAL DESCRIPTION:
113 M 0495 1 This routine converts a RAD-50 file name block into the
114 M 0496 1 equivalent VMS format name. Long file names are not supported
115 M 0497 1 in RAD50 mode.
116 M 0498 1
117 M 0499 1 CALLING SEQUENCE:
118 M 0500 1 RAD50_TO_VMS ( ARG1, ARG2, ARG3 )
119 M 0501 1
120 M 0502 1 INPUT PARAMETERS:
121 M 0503 1 none
122 M 0504 1
123 M 0505 1 IMPLICIT INPUTS:
124 M 0506 1 NMBLOCK - the Radix 50 name block
125 M 0507 1
126 M 0508 1 OUTPUT PARAMETERS:
127 M 0509 1 ARG1 - buffer for file name string
128 M 0510 1 ARG2 - word to receive version number
129 M 0511 1 ARG2 - size of filename string
130 M 0512 1
131 M 0513 1 IMPLICIT OUTPUTS:
132 M 0514 1 none
133 M 0515 1
134 M 0516 1 SIDE EFFECTS:
135 M 0517 1 none
136 M 0518 1
137 M 0519 1 --
138 M 0520 1
139 M 0521 1 BEGIN
140 M 0522 1
141 M 0523 1 EXTERNAL
142 M 0524 1 NMBLOCK : VECTOR [ , WORD ]; ! the rad50 name block
143 M 0525 1
144 M 0526 1 MAP
145 M 0527 1 STRING : VECTOR [ , BYTE ], ! string buffer arg
146 M 0528 1 VERSION : WORD, ! version number arg
147 M 0529 1 OUT_INDEX : LONG; ! file name size arg
148 M 0530 1
149 M 0531 1 LOCAL
150 M 0532 1 CHARS : VECTOR [ 3, BYTE ]; ! holding place for characters
151 M 0533 1
152 M 0534 1
153 M 0535 1 ! Set up the index. Then start up the outer loop, which iterates
154 M 0536 1 ! over name and type fields.
155 M 0537 1 !
156 M 0538 1 OUT_INDEX = 0;
157 M 0539 1
158 M 0540 1 INCR K FROM 0 TO 3 BY 3 DO
159 M 0541 1 BEGIN
160 M 0542 1
161 M 0543 1 ! The next loop iterates over the RAD-50 words in the name block.
162 M 0544 1 ! There are 3 words for name, 1 for type. Expand each word into
163 M 0545 1 ! the 3 RAD-50 characters.
164 M 0546 1
```

```
165      INCR I FROM 0 TO ( IF .K THEN 0 ELSE 2 )
166      DO
167      BEGIN
168      CHARS [ 0 ] = .NMBLOCK [ .I + .K ] / ( 40 * 40 );
169      CHARS [ 1 ] = ( .NMBLOCK [ .I + .K ] / 40 ) MOD 40;
170      CHARS [ 2 ] = .NMBLOCK [ .I + .K ] MOD 40;
171      ! Now convert each character into the correct ASCII code and store
172      ! it in the string buffer if it is not null.
173      INCR J FROM 0 TO 2 DO
174      IF .CHARS [ .J ] NEQ 0 THEN
175      BEGIN
176      STRING [ .OUT_INDEX ] = ( IF .CHARS [ .J ] LSS 30
177      THEN ( .CHARS [ .J ] - 1 ) + 'A'
178      ELSE ( .CHARS [ .J ] - 30 ) + '0' );
179      OUT_INDEX = .OUT_INDEX + 1;
180      END;
181      END; ! end of word loop
182      ! At the end of name field, insert the dot.
183      IF .K EQL 0
184      THEN
185      BEGIN
186      STRING [ .OUT_INDEX ] = '.';
187      OUT_INDEX = .OUT_INDEX + 1;
188      END;
189      END; ! end of outer loop
190      ! fill in the version number
191      VERSION = .NMBLOCK [ 4 ];
192      END;
193      %; ! end of macro RAD50_TO_ASCII
```

```
0547 1
0548 1
0549 1
0550 1
0551 1
0552 1
0553 1
0554 1
0555 1
0556 1
0557 1
0558 1
0559 1
0560 1
0561 1
0562 1
0563 1
0564 1
0565 1
0566 1
0567 1
0568 1
0569 1
0570 1
0571 1
0572 1
0573 1
0574 1
0575 1
0576 1
0577 1
0578 1
0579 1
0580 1
0581 1
0582 1
0583 1
0584 1
0585 1
```

```

205 M 0586 1 MACRO FORMAT_FILE_NAME =
206 M 0587 1
207 M 0588 1 +-+
208 M 0589 1
209 M 0590 1 FUNCTIONAL DESCRIPTION:
210 M 0591 1     formats the File's Name, Type and Version to placed into the header
211 M 0592 1
212 M 0593 1 CALLING SEQUENCE:
213 M 0594 1     FORMAT_FILE_NAME
214 M 0595 1
215 M 0596 1 INPUT PARAMETERS:
216 M 0597 1     none
217 M 0598 1
218 M 0599 1 IMPLICIT INPUTS:
219 M 0600 1     none
220 M 0601 1
221 M 0602 1 OUTPUT PARAMETERS:
222 M 0603 1     none
223 M 0604 1
224 M 0605 1 IMPLICIT OUTPUTS:
225 M 0606 1     file name is formatted in the HDR1 and HDR4 labels
226 M 0607 1
227 M 0608 1 SIDE EFFECTS:
228 M 0609 1     none
229 M 0610 1
230 M 0611 1 --
231 M 0612 1
232 M 0613 1 BEGIN
233 M 0614 1
234 M 0615 1 EXTERNAL ROUTINE
235 M 0616 1     CALC_TAPE_VER,           ! turn VMS version number
236 M 0617 1     PARSE_NAME_TYPE,        ! into ANSI generation nums
237 M 0618 1     PARSE_QUOTED_NAME: COMMON_CALL NOVALUE, ! parse file name string
238 M 0619 1     RESULTANT_STRING: COMMON_CALL NOVALUE, ! parse a spec in quotes
239 M 0620 1     STRIP_VERSION : COMMON_CALL, ! return resultant string
240 M 0621 1     SYSS$FAO : COMMON_CALL, ! strip version from file spec
241 M 0622 1     : ADDRESSING_MODE ( ABSOLUTE ); ! format generation num
242 M 0623 1
243 M 0624 1 EXTERNAL
244 M 0625 1     ANSI_NAME_SIZE : SIGNED BYTE, ! size of the ANSI file name
245 M 0626 1     HDR1 : REF BBLOCK, ! point to the HDR1
246 M 0627 1     HDR4 : REF BBLOCK, ! point to the HDR4
247 M 0628 1     IO_PACKET : REF BBLOCK, ! pointer to current IRP
248 M 0629 1     LOCAL_FIB : BBLOCK; ! copy of users File Info Blk
249 M 0630 1
250 M 0631 1 LOCAL
251 M 0632 1     ABD : REF BBLOCKVECTOR [ , ABD$C_LENGTH ],
252 M 0633 1     DESCRIPT : VECTOR [ 2, LONG ], ! pointer to ACP buffer desc
253 M 0634 1     FILE_SPEC_PTR : LONG, ! general purpose descriptor
254 M 0635 1     FILE_SPEC_LEN : LONG, ! point to file name buffer
255 M 0636 1     NAME_STRING : VECTOR [ FILE_SPEC_MAX, BYTE ], ! length of file name buffer
256 M 0637 1     : ! buff to hold converted RAD50
257 M 0638 1     FILE_ID : VECTOR [ FILE_SPEC_MAX, BYTE ], ! hole FILE ID
258 M 0639 1     GEN_NUM_VER : VECTOR [ 2, LONG ], ! ANSI version numbers
259 M 0640 1     QUOTED_NAME : BITVECTOR [ 1 ], ! was the spec passed in quotes
260 M 0641 1     VERSION : WORD; ! VMS version number
261 M 0642 1

```

```
.. 262 M 0643 1
... 263 M 0644 1
... 264 M 0645 1
... 265 M 0646 1
... 266 M 0647 1
... 267 M 0648 1
... 268 M 0649 1
... 269 M 0650 1
... 270 M 0651 1
... 271 M 0652 1
... 272 M 0653 1
... 273 M 0654 1
... 274 M 0655 1
... 275 M 0656 1
... 276 M 0657 1
... 277 M 0658 1
... 278 M 0659 1
... 279 M 0660 1
... 280 M 0661 1
... 281 M 0662 1
... 282 M 0663 1
... 283 M 0664 1
... 284 M 0665 1
... 285 M 0666 1
... 286 M 0667 1
... 287 M 0668 1
... 288 M 0669 1
... 289 M 0670 1
... 290 M 0671 1
... 291 M 0672 1
... 292 M 0673 1
... 293 M 0674 1
... 294 M 0675 1
... 295 M 0676 1
... 296 M 0677 1
... 297 M 0678 1
... 298 M 0679 1
... 299 M 0680 1
... 300 M 0681 1
... 301 M 0682 1
... 302 M 0683 1
... 303 M 0684 1
... 304 M 0685 1
... 305 M 0686 1
... 306 M 0687 1
... 307 M 0688 1
... 308 M 0689 1
... 309 M 0690 1
... 310 M 0691 1
... 311 M 0692 1
... 312 M 0693 1
... 313 M 0694 1
... 314 M 0695 1
... 315 M 0696 1
... 316 M 0697 1
... 317 M 0698 1
... 318 M 0699 1

! which filename should be used
! get the filename from name block if not specifed as attribute
ABD = .BBLOCK [ .IO PACKET [ IRPSL SVAPTE ], AIBSL_DESCRIPTOR ];
IF .ABD [ ABD$C_NAME, ABD$W_COUNT ] EQLU 0
THEN
BEGIN
RAD50 TO VMS ( NAME STRING, VERSION, FILE_SPEC_LEN );
FILE_SPEC_PTR = NAME_STRING;
QUOTED_NAME [ 0 ] = FALSE;
END
ELSE
BEGIN
FILE_SPEC_LEN = .ABD [ ABD$C_NAME, ABD$W_COUNT ];
FILE_SPEC_PTR = .ABD [ ABD$C_NAME, ABD$W_TEXT ] +
ABD [ ABD$C_NAME, ABD$W_TEXT ] + 1;

! do not allow wild cards in the version field
VERSION = STRIP_VERSION ( FILE_SPEC_LEN,
FILE_SPEC_PTR,
FALSE,
QUOTED_NAME [ 0 ] );

END;

! check that it is not to large
IF .VERSION GTRU 32767 THEN ERR_EXIT ( SSS_BADFILEVER );

! Space fill the temporary FILE_ID field
CH$FILL(' ',FILE_SPEC_MAX,FILE_ID);

! parse the file name if is a VMS file spec and place into HDR1
IF .ANSI_NAME_SIZE LSS 0
THEN
BEGIN
DESCRIPT [ 0 ] = FILE_SPEC_MAX;
DESCRIPT [ 1 ] = FILE_ID[0];

! call the correct parse routine
IF .QUOTED_NAME [ 0 ]
THEN
BEGIN
PARSE_QUOTED_NAME ( .FILE_SPEC_LEN,
.FILE_SPEC_PTR,
DESCRIPT );

! set a dummy value so it is tested to see if it is VMS spec
ANSI_NAME_SIZE = 1;
END
ELSE
BEGIN
```



```

319 M 0700 1          IF NOT PARSE_NAME_TYPE ( FALSE, ! no wild cards allowed
320 M 0701 1          .FILE_SPEC_LEN,
321 M 0702 1          .FILE_SPEC_PTR,
322 M 0703 1          DESCRIPT )
323 M 0704 1          THEN ERR_EXIT ( SSS_BADFILENAME );
324 M 0705 1          END;
325 M 0706 1          END;
326 M 0707 1
327 M 0708 1          ! test if the file spec give to us by ATR$ ASCNAME or in quotes is a VMS
328 M 0709 1          ! spec so we do not return it in quotes. A size of zero will not work
329 M 0710 1          ! cause you need at least a "."
330 M 0711 1
331 M 0712 1          IF .ANSI_NAME_SIZE GTR 0
332 M 0713 1          THEN
333 M 0714 1              BEGIN
334 M 0715 1                  EXTERNAL WORK_AREA;          ! address of general work area
335 M 0716 1                  DESCRIPT [ 0 ] = FILE_SPEC_MAX;
336 M 0717 1                  DESCRIPT [ 1 ] = WORK_AREA;
337 M 0718 1                  IF PARSE_NAME_TYPE ( FALSE, ! no wild cards allowed
338 M 0719 1                      FILE_SPEC_MAX,
339 M 0720 1                      FILE_ID[0],
340 M 0721 1                      DESCRIPT )
341 M 0722 1                      THEN ANSI_NAME_SIZE = -1;
342 M 0723 1                  END;
343 M 0724 1
344 M 0725 1          ! Fill in the HDR1 FILE ID field and the HDR4 label.
345 M 0726 1
346 M 0727 1          CH$MOVE (HD1$$_FILEID, FILE_ID, HDR1[HD1$T_FILEID]);
347 M 0728 1          CH$MOVE (HD4$$_FILEID_EXT, FILE_ID[HD1$$_FILEID], HDR4[HD4$T_FILEID_EXT]);
348 M 0729 1
349 M 0730 1          ! Check the length of the file name. If the file name will fit in
350 M 0731 1          ! the HDR1 FILE ID then set the HDR4 length to zero. Else set up
351 M 0732 1          ! the lengths such that the HDR1 FILE ID is filed with the name
352 M 0733 1          ! then the remainder of the name is put in the HDR4 label with the
353 M 0734 1          ! size that is in the HDR4 label only.
354 M 0735 1          ! PLEASE NOTE that the actual implementation of this is different for
355 M 0736 1          ! volumes with a 4 in the VOL1 standard field as opposed to a 3 or less.
356 M 0737 1          ! This is because the new standard allows us to write any kind
357 M 0738 1          ! of data in implementation dependant fields. The old standard did not allow
358 M 0739 1          ! us to do this.
359 M 0740 1
360 M 0741 1          BEGIN
361 M 0742 1              BIND
362 M 0743 1                  CVT2 = DESCRIPTOR ('!2ZW');
363 M 0744 1              LOCAL
364 M 0745 1                  DESCR : VECTOR [2, LONG],
365 M 0746 1                  MVL : REF BBLOCK;
366 M 0747 1                  MVL = .CURRENT_VCB[VCB$L_MVL];
367 M 0748 1                  IF .FILE_SPEC_LEN LEQU HD1$$_FILEID
368 M 0749 1                      THEN
369 M 0750 1                          BEGIN
370 M 0751 1                              IF .MVL[MVL$B_STDVER] GTR 3
371 M 0752 1                                  THEN
372 M 0753 1                                      HDR4[HD4$B_FILEID_EXT_SIZE] = 0
373 M 0754 1                                  ELSE
374 M 0755 1                                      CH$FILL('0', HD4$$_FILEID_EXT_V3, HDR4[HD4$T_FILEID_EXT_V3]);
375 M 0756 1                              END

```

```
.. 376 M 0757 1
.. 377 M 0758 1
.. 378 M 0759 1
.. 379 M 0760 1
.. 380 M 0761 1
.. 381 M 0762 1
.. 382 M 0763 1
.. 383 M 0764 1
.. 384 M 0765 1
.. 385 M 0766 1
.. 386 M 0767 1
.. 387 M 0768 1
.. 388 M 0769 1
.. 389 M 0770 1
.. 390 M 0771 1
.. 391 M 0772 1
.. 392 M 0773 1
.. 393 M 0774 1
.. 394 M 0775 1
.. 395 M 0776 1
.. 396 M 0777 1
.. 397 M 0778 1
.. 398 M 0779 1
.. 399 M 0780 1
.. 400 M 0781 1
.. 401 M 0782 1
.. 402 M 0783 1
.. 403 M 0784 1
.. 404 M 0785 1
.. 405 M 0786 1
.. 406 M 0787 1
.. 407 M 0788 1
.. 408 M 0789 1
.. 409 M 0790 1
.. 410 M 0791 1
.. 411 M 0792 1

ELSE
BEGIN
IF .MVL[MVLSB_STDVER] GTR 3
THEN
HDR4[HD4$B_FILEID_EXT_SIZE] = .FILE_SPEC_LEN - HD1$S_FILEID
ELSE
BEGIN
LOCAL LEN;
LEN = .FILE_SPEC_LEN - HD1$S_FILEID;
DESCR[0] = HD4$S_FILEID_EXT_V3;
DESCR[1] = HDR4[HD4$T_FILEID_EXT_V3];
$FAO(CVT2,0,DESCR,.LEN);
END;
END;
END;

! if enter function return file name string to user
IF .LOCAL_FIB [ FIB$W_DID_NUM ] NEQ 0
THEN
RESULTANT_STRING ( .ANSI_NAME_SIZE LSS 0,
FILE_SPEC_MAX,
FILE_ID[0],
.VERSION );

! transform the VMS file version number into ANSI format
CALC TAPE_VER ( .VERSION, GEN_NUM_VER );
DESCRIPT [ 0 ] = HD1$S_GENNO + HD1$S_GENVER;
DESCRIPT [ 1 ] = HDR1 [ HD1$T_GENNO ];
SY$FAO ( DESCRIPTOR ( '!4ZL!2ZL' ), 0, DESCRIPT,
.GEN_NUM_VER [ 0 ], .GEN_NUM_VER [ 1 ] );

END;
%: ! end of macro FORMAT_FILE_NAME
```

```
413 0793 1 GLOBAL ROUTINE FORMAT_HDRS : COMMON_CALL NOVALUE =
414 0794 1
415 0795 1 !++
416 0796 1
417 0797 1 FUNCTIONAL DESCRIPTION:
418 0798 1 This routine formats HDR1, HDR2, HDR3 and HDR4.
419 0799 1
420 0800 1 CALLING SEQUENCE:
421 0801 1 FORMAT_HDRS()
422 0802 1
423 0803 1 INPUT PARAMETERS:
424 0804 1 none
425 0805 1
426 0806 1 IMPLICIT INPUTS:
427 0807 1 CURRENT_VCB - address of current vcb
428 0808 1 HDR1 - address of HDR1 label
429 0809 1 HDR2 - address of HDR2 label
430 0810 1 HDR3 - address of HDR3 label
431 0811 1 HDR4 - address of HDR4 label
432 0812 1 LOCAL_FIB - copy of user's fib
433 0813 1
434 0814 1 OUTPUT PARAMETERS:
435 0815 1 none
436 0816 1
437 0817 1 IMPLICIT OUTPUTS:
438 0818 1 HDR1, HDR2, HDR3, and HDR4 formatted
439 0819 1
440 0820 1 ROUTINE VALUE:
441 0821 1 none
442 0822 1
443 0823 1 SIDE EFFECTS:
444 0824 1 none
445 0825 1
446 0826 1 --
447 0827 1
448 0828 2 BEGIN
449 0829 2
450 0830 2 EXTERNAL ROUTINE
451 0831 2 CONVDATE_R2J, ! convert regular date to
452 0832 2 ! Julian for tape
453 0833 2 SYSSASCTIM : ADDRESSING_MODE(ABSOLUTE), ! get ASCII date/time
454 0834 2 SYSSFAO : ADDRESSING_MODE(ABSOLUTE), ! format ASCII output
455 0835 2 WRITE_ATTRIBUTE : COMMON_CALL; ! write user supplied attrbts
456 0836 2
457 0837 2
458 0838 2 EXTERNAL REGISTER
459 0839 2 COMMON_REG;
460 0840 2
461 0841 2 EXTERNAL
462 0842 2 CURRENT_UCB : REF BBLOCK, ! address of current UCB
463 0843 2 HDR1 : REF BBLOCK, ! address of HDR1(EOF1) label
464 0844 2 HDR2 : REF BBLOCK, ! address of HDR2(EOF2) label
465 0845 2 HDR3 : REF BBLOCK, ! address of HDR3(EOF3) label
466 0846 2 HDR4 : REF BBLOCK, ! address of HDR3(EOF4) label
467 0847 2 IO_PACKET : REF BBLOCK, ! address of IO request packet
468 0848 2 LOCAL_FIB : BBLOCK; ! copy of user file info block
469 0849 2
```

```
470 0850 BIND
471 0851   CVT4      = DESCRIPTOR ( '14XW' );
472 0852   CVT5      = DESCRIPTOR ( '15ZW' );
473 0853   DEFAULT   = UPLIT ('00512'),
474 0854   DEF_HEX    = UPLIT ('0200'),
475 0855   STARID    = UPLIT ('DECFILE11A');
476 0856
477 0857 GLOBAL
478 0858   NMBLOCK      : BBLOCK [10];           ! name block
479 0859
480 0860 LOCAL
481 0861   DESCR        : VECTOR [2],           ! general Pdescriptor
482 0862   MVL          : REF BBLOCK,         ! magtape volume list
483 0863   TODAY       : VECTOR [12, BYTE];   ! regular date string
484 0864
485 0865
486 0866 ! Blank fill the headers and default the fields
487 0867 ! in HDR1, HDR2, HDR3, and HDR4
488 0868
489 0869 CH$FILL(' ', 320, .HDR1);
490 0870 HDR1[HD1$SL_HD1LID] = 'HDR1';
491 0871 MVL = .CURRENT_VCB[VCB$MVL];
492 0872 CH$MOVE(HD1$$ FILESETID, MVL[MVL$SET_ID], HDR1[HD1$T_FILESETID]);
493 0873 CH$FILL('0', HD1$$_BLOCKCNT, HDR1[HD1$T_BLOCKCNT]);
494 0874
495 0875 ! If volume is for interchange do not write any VMS specific fields.
496 0876
497 0877 IF NOT .CURRENT_VCB[VCB$V_INTCHG]
498 0878 THEN
499 0879   CH$MOVE(10, STARID, HDR1[HD1$T_SYSCODE]);
500 0880
501 0881 ! default expiration and creation date
502 0882
503 0883 DESCR[0] = 12;
504 0884 DESCR[1] = TODAY;
505 0885 SYSSASCTIM(0, DESCR, 0, 0);           ! get today's date in dd-mmm-yyyy
506 0886 CONVDATE R2J(TODAY, HDR1[HD1$T_CREATEDT]);
507 0887 CH$MOVE(HD1$$_CREATEDT, HDR1[HD1$T_CREATEDT], HDR1[HD1$T_EXPIREDT]);
508 0888
509 0889 !++
510 0890
511 0891 ! format HDR2 defaults
512 0892
513 0893 !--
514 0894 HDR2[HD2$SL_HD2LID] = 'HDR2';
515 0895 HDR2[HD2$B_RECFORMAT] = 'F';
516 0896 DESCR[0] = HD2$$_BLOCKLEN;
517 0897 DESCR[1] = HDR2[HD2$T_BLOCKLEN];
518 0898
519 0899 ! fill in the blocksize
520 0900
521 0901 IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_UCB[UCB$W_DEVBUFSIZ])
522 0902 THEN CH$MOVE(HD2$$_BLOCKLEN, DEFAULT, HDR2[HD2$T_BLOCKLEN]);
523 0903
524 0904 ! default the the record size to be the blocksize
525 0905
526 0906 CH$MOVE(HD2$$_RECLN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLN]);
```

```
.. 527 0907 2
... 528 0908 2
... 529 0909 2
... 530 0910 2
... 531 0911 2
... 532 0912 2
... 533 0913 2
... 534 0914 2
... 535 0915 2
... 536 0916 2
... 537 0917 2
... 538 0918 2
... 539 0919 2
... 540 0920 2
... 541 0921 2
... 542 0922 2
... 543 0923 2
... 544 0924 2
... 545 0925 2
... 546 0926 2
... 547 0927 2
... 548 0928 2
... 549 0929 2
... 550 0930 2
... 551 0931 2
... 552 0932 2
... 553 0933 2
... 554 0934 2
... 555 0935 2
... 556 0936 2
... 557 0937 2
... 558 0938 2
... 559 0939 2
... 560 0940 2
... 561 0941 2
... 562 0942 2
... 563 0943 2
... 564 0944 2
... 565 0945 2
... 566 0946 2
... 567 0947 2
... 568 0948 2
... 569 0949 2
... 570 0950 2
... 571 0951 2
... 572 0952 2
... 573 0953 2
... 574 0954 2
... 575 0955 2
... 576 0956 2
... 577 0957 2
... 578 0958 2
... 579 0959 2
... 580 0960 2
... 581 0961 2
... 582 0962 2
... 583 0963 2
```

```
! use the record size if it exists
IF .CURRENT_VCB[VCB$W_RECORDSZ] NEQ 0
THEN
  BEGIN
    DESCR[0] = HD2$$ RECLEN;
    DESCR[1] = HDR2[HD2$T_RECLEN];

    IF NOT $FAO(CVT5, 0, DESCR, .CURRENT_VCB[VCB$W_RECORDSZ])
    THEN
      CH$MOVE(HD2$$ RECLEN, HDR2[HD2$T_BLOCKLEN], HDR2[HD2$T_RECLEN]);
    END;

  HDR2[HD2$T_BUFOFF] = '00';

  !++
  ! default HDR3 ( sequential files, fixed length block size )
  !--
  HDR3[HD3$L_HD3LID] = 'HDR3';
  CH$FILL('0', HD3$$ RECATR, HDR3[HD3$T_RECATR]);
  (HDR3[HD3$T_RECATR] + 4) < 0, 32 > = '0201';

  !++
  ! default HDR4 no long file name, make the default dependant on the
  ! ANSI version type
  !--
  HDR4[HD4$L_HD4LID] = 'HDR4';
  IF .MVL[MV[$B_STDVER] GTR 3
  THEN
    HDR4[HD4$B_FILEID_EXT_SIZE] = 0
  ELSE
    CH$FILL('0', HD4$$ FILEID_EXT_V3, HDR4[HD4$T_FILEID_EXT_V3]);

  !++
  ! fill in the RMS default record size
  ! if record size on mount then use it
  ! else if blocks size the use it
  ! else default
  !--
  DESCR[0] = 4;
  DESCR[1] = HDR3[HD3$T_RECATR];
  IF .CURRENT_VCB[VCB$W_RECORDSZ] NEQ 0
  THEN
    BEGIN
      IF NOT $FAO( CVT4, 0, DESCR, .CURRENT_VCB[VCB$W_RECORDSZ] )
      THEN
        BEGIN
          IF NOT $FAO( CVT4, 0, DESCR, .CURRENT_UCB[UCB$W_DEVBUFSIZ] )
          THEN CH$MOVE ( 4, DEF_HEX, HDR3[HD3$T_RECATR] );
        END;
    END;
```



```

.EXTRN CURRENT_UCB, HDR1
.EXTRN HDR2, HDR3, HDR4
.EXTRN IO_PACKET, LOCAL_FIB
.EXTRN CACC_TAPE_VER, PARSE_NAME_TYPE
.EXTRN PARSE_QUOTED_NAME
.EXTRN RESULTANT_STRING
.EXTRN STRIP_VERSION, ANSI_NAME_SIZE
.EXTRN WORK_AREA

```

.PSECT \$CODE\$,NOWRT,2

```

.ENTRY FORMAT_HDRS, Save R2,R3,R4,R5,R6,R7,R8,R9,- R10 : 0793
MOVAB SYSS$FA0, R10
MOVAB -220(SP), SP
MOVL HDR1, R6 : 0869
MOVCS #0, (SP), #32, #320, (R6)

MOVL #827475016, (R6) : 0870
MOVL 52(CURRENT_VCB), MVL : 0871
MOVCS #6, 12(MVL), 21(R6) : 0872
MOVCS #0, (SP), #48, #6, 54(R6) : 0873

BBS #4, 44(CURRENT_VCB), 1$ : 0877
MOVCS #10, STARID, 60(R6) : 0879
MOVL #12, DESCR : 0883
MOVAB TODAY, DESCR+4 : 0884
CLRQ -(SP) : 0885
PUSHAB DESCR
CLRL -(SP)
CALLS #4, @#SYSS$ASCTIM
ADJL3 #41, HDR1, -(SP) : 0886
PUSHAB TODAY
CALLS #2, CONVDATE_R2J
MOVL HDR1, R0 : 0887
MOVCS #6, 41(R0), 47(R0)
MOVL HDR2, R0 : 0894
MOVL #844252232, (R0)
MOVB #70, 4(R0) : 0895
MOVL #5, DESCR : 0896
MOVAB 5(R0), DESCR+4 : 0897
MOVL CURRENT_UCB, R0 : 0901
MOVZWL 66(R0), -(SP)
PUSHAB DESCR
CLRL -(SP)
PUSHAB CVT5
CALLS #4, SYSS$FA0
BLBS R0, 2$
MOVL HDR2, R0 : 0902
MOVCS #5, DEFAULT, 5(R0)
MOVL HDR2, R6 : 0906
MOVCS #5, 5(R6), 10(R6)
MOVZWL 80(CURRENT_VCB), R8 : 0910
CLRL R9
TSTL R8
BEQL 3$
INCL R9

```

07FC 00000

```

0140 8F 20 5A 00000000G 00 9E 00002
5E FF24 CE 9E 00009
56 0000G CF D0 0000E
6E 00 2C 00013
66 31524448 66 0001A
57 34 8F D0 0001B
A7 06 06 D0 00022
6E 00 2C 00026
36 A6 00 2C 0002C
06 2C AB 04 E0 00033
3C A6 9C AF 0A 28 00038
F8 AD 0C D0 0003E 1$:
FC AD EC AD 9E 00042
7E 7C 00047
F8 AD 9F 00049
7E D4 0004C
7E 00000000G 9F 04 FB 0004E
0000G CF 29 C1 00055
EC AD 9F 0005B
0000G CF 02 FB 0005E
2F A0 29 A0 0000G CF D0 00063
50 0000G CF D0 00068
60 32524448 8F D0 00073
04 A0 46 8F 90 0007A
F8 AD 05 D0 0007F
FC AD 05 A0 9E 00083
50 0000G CF D0 00088
7E 42 A0 3C 0008D
F8 AD 9F 00091
FF2A 7E D4 00094
CF 9F 00096
04 FB 0009A
6A 04 FB 0009A
OC 50 E8 0009D
50 0000G CF D0 000A0
05 A0 FF22 CF 05 28 000A5 2$:
56 0000G CF D0 000AC
0A A6 05 A6 05 28 000B1
58 50 AB 3C 0C0B7
59 D4 000BB
58 D5 000BD
27 13 000BF
59 D6 000C1

```

	F8	AD		05	D0	000C3		MOVL	#5, DESCR	0913
	FC	AD	OA	A6	9E	000C7		MOVAB	10(R6), DESCR+4	0914
				S8	DD	000CC		PUSHL	R8	0916
			F8	AD	9F	000CE		PUSHAB	DESCR	
				7E	D4	000D1		CLRL	-(SP)	
			FEED	CF	9F	000D3		PUSHAB	CVT5	
		6A		04	FB	000D7		CALLS	#4, SYSS\$FA0	
		0B		50	E8	000DA		BLBS	R0, 3\$	
		50	0000r	CF	D0	000DD		MOVL	HDR2, R0	0918
	OA	A0		05	A0	000E2		MOVAB	#5, 5(R0), 10(R0)	
		50	0000G	CF	D0	000E8	3\$:	MOVL	HDR2, R0	0921
		32	A0	3030	8F	B0	000ED	MOVW	#12336, 50(R0)	
		56	0000G	CF	D0	000F3		MOVL	HDR3, R6	0928
		66	33524448	8F	D0	000F8		MOVL	#861029448, (R6)	
0040	8F			6E	00	2C	000FF	MOVCS	#0, (SP), #48, #64, 4(R6)	0929
					A6		00106			
		08	A6	31303230	8F	D0	00108	MOVL	#825242160, 8(R6)	0930
			50	0000G	CF	D0	00110	MOVL	HDR4, R0	0938
			60	34524448	8F	D0	00115	MOVL	#877806664, (R0)	
			03	22	A7	91	0011C	CMPB	34(MVL), #3	0939
					05	1B	00120	BLEQU	4\$	
				04	A0	94	00122	CLRB	4(R0)	0941
					06	11	00125	BRB	5\$	
	43	A0	3030	8F	BC	00127	4\$:	MOVW	#12336, 67(R0)	0943
	F8	AD		04	D0	0012D	5\$:	MOVL	#4, DESCR	0953
	FC	AD	04	A6	9E	00131		MOVAB	4(R6), DESCR+4	0954
				59	E9	00136		BLBC	R9, 6\$	0955
				58	DD	00139		PUSHL	R8	0958
			F8	AD	9F	0013B		PUSHAB	DESCR	
				7E	D4	0013E		CLRL	-(SP)	
			FE74	CF	9F	00140		PUSHAB	CVT4	
		6A		04	FB	00144		CALLS	#4, SYSS\$FA0	
		23		50	E8	00147		BLBS	R0, 7\$	
		50	0000G	CF	D0	0014A	6\$:	MOVL	CURRENT_UCB, R0	0967
		7E	42	A0	3C	0014F		MOVZWL	66(R0), -(SP)	
			F8	AD	9F	00153		PUSHAB	DESCR	
				7E	D4	00156		CLRL	-(SP)	
			FE5C	CF	9F	00158		PUSHAB	CVT4	
		6A		04	FB	0015C		CALLS	#4, SYSS\$FA0	
		0B		50	E8	0015F		BLBS	R0, 7\$	
		50	0000G	CF	D0	00162		MOVL	HDR3, R0	0968
	OA	A0	FE69	CF	D0	00167		MOVL	DEF_HEX, 4(R0)	
		6E		00	2C	0016D	7\$:	MOVCS	#0, (SP), #0, #10, NMBLOCK	0974
			0000'	CF		00172				
	0000G	CF		00	FB	00175		CALLS	#0, WRITE_ATTRIBUTE	0975
		50	0000G	CF	D0	0017A		MOVL	10 PACKET, R0	
		50	2C	B0	D0	0017F		MOVL	044(R0), ABD	
			12	A0	B5	00183		TSTW	18(ABD)	
				03	13	00186		BEQL	8\$	
			0099	31	00188			BRW	19\$	
			0C	AE	D4	0018B	8\$:	CLRL	FILE_SPEC_LEN	
				54	D4	0018E		CLRL	K	
		04		54	E9	00190	9\$:	BLBC	K, 10\$	
				55	D4	00193		CLRL	R5	
				03	11	00195		BRB	11\$	
		55		02	D0	00197	10\$:	MOVL	#2, R5	
		50		01	CE	0019A	11\$:	MNEGL	#1, I	



				5B	11	0019D		3RB	17\$
	51	50		54	C1	0019F	12\$:	ADDL3	K, I, R1
		52	0000GCF	41	3C	001A3		MOVZWL	NMBLOCK[R1], R2
	51	52	00000640	8F	C7	001A9		DIVL3	#1600, R2, R1
		6E		51	90	001B1		MOVB	R1, CHARS
	51	52		28	C7	001B4		DIVL3	#40, R2, R1
7E	00	51		01	7A	001B8		EMUL	#1, R1, #0, -(SP)
51		8E		28	7B	001BD		EDIV	#40, (SP)+, R1, R1
		AE	01	51	90	001C2		MOVB	R1, CHARS+1
7E	00	52		01	7A	001C6		EMUL	#1, R2, #0, -(SP)
51		8E		28	7B	001CB		EDIV	#40, (SP)+, R1, R1
		AE	02	51	90	001D0		MOVB	R1, CHARS+2
				51	D4	001D4		CLRL	J
		53		6E41	9A	001D6	13\$:	MOVZBL	CHARS[J], R3
				1A	13	001DA		BEQL	16\$
		52	70	AE	9E	001DC		MOVAB	NAME_STRING, R2
		1E		53	91	001E0		CMPB	R3, #30
				06	1E	001E3		BGEQU	14\$
		53	40	A3	9E	001E5		MOVAB	64(R3), R3
				03	11	001E9		BRB	15\$
		53		12	C0	001EB	14\$:	ADDL2	#18, R3
	OC	BE42		53	90	001EE	15\$:	MOVB	R3, @FILE_SPEC_LEN[R2]
				OC	AE	D6	001F3	INCL	FILE_SPEC_LEN
DC		51		02	F3	001F6	16\$:	AOBLEQ	#2, J, 13\$
A1		50		55	F3	001FA	17\$:	AOBLEQ	R5, I, 12\$
				54	D5	001FE		TSTL	K
				OC	12	00200		BNEQ	18\$
		50	70	AE	9E	00202		MOVAB	NAME_STRING, R0
	OC	BE40		2E	90	00206		MOVB	#46, @FILE_SPEC_LEN[R0]
				OC	AE	D6	0020B	INCL	FILE_SPEC_LEN
FF7C				03	F1	0020E	18\$:	ACBL	#3, #3, K, 9\$
		03		03	CF	00214		MOVW	NMBLOCK+8, VERSION
		57	0000G	CF	B0	00214		MOVW	NMBLOCK+8, VERSION
	08	AE	70	AE	9E	00219		MOVAB	NAME_STRING, FILE_SPEC_PTR
	04	AE		01	8A	0021E		BICB2	#1, QUOTED_NAME
				25	11	00222		BRB	20\$
	OC	AE	12	A0	3C	00224	19\$:	MOVZWL	18(ABD), FILE_SPEC_LEN
		51	10	A0	9E	00229		MOVAB	16(ABD), R1
		50		61	3C	0022D		MOVZWL	(R1), R0
	08	AE	01	A140	9E	00230		MOVAB	1(R1)[R0], FILE_SPEC_PTR
			04	AE	9F	00236		PUSHAB	QUOTED_NAME
				7E	D4	00239		CLRL	-(SP)
			10	AE	9F	0023B		PUSHAB	FILE_SPEC_PTR
			18	AE	9F	0023E		PUSHAB	FILE_SPEC_LEN
	0000G	CF		04	FB	00241		CALLS	#4, STRIP-VERSION
		57		50	B0	00246		MOVW	R0, VERSION
	7FFF	8F		57	B1	00249	20\$:	CMPW	VERSION, #32767
				04	1B	0024E		BLEQU	21\$
			0820	8F	BF	00250		CHMU	#2080
004F	8F		20	00	2C	00254	21\$:	MOVCS	#0, (SP), #32, #79, FILE_ID
			20	AE		0025B			
			0000G	CF	95	0025D		TSTB	ANSI_NAME_SIZE
				3A	18	00261		BGEQ	23\$
	E4	AD	4F	8F	9A	00263		MOVZBL	#79, DESCRIPT
	E8	AD	20	AE	9E	00268		MOVAB	FILE_ID, DESCRIPT+4
		15	04	AE	E9	0026D		BLBC	QUOTED_NAME, 22\$
			E4	AD	9F	00271		PUSHAB	DESCRIPT
			OC	AE	DD	00274		PUSHL	FILE_SPEC_PTR

.....

.....

			14	AE	DD	00277		PUSHL	FILE_SPEC_LEN		
	0000G	CF		03	FB	0027A		CALLS	#3, PARSE_QUOTED_NAME		
	0000G	CF		01	90	0027F		MOVB	#1, ANSI_NAME_SIZE		
				17	11	00284		BRB	23\$		
			E4	AD	9F	00286	22\$:	PUSHAB	DESCRIPT		
			OC	AE	DD	00289		PUSHL	FILE_SPEC_PTR		
			14	AE	DD	0028C		PUSHL	FILE_SPEC_LEN		
				7E	D4	0028F		CLRL	-(SP)		
	0000G	CF		04	FB	00291		CALLS	#4, PARSE_NAME_TYPE		
		04		50	E8	00296		BLBS	R0, 23\$		
			0818	8F	BF	00299		CHMU	#2072		
			0000G	CF	95	0029D	23\$:	TSTB	ANSI_NAME_SIZE		
				24	15	002A1		BLEQ	24\$		
	E4	AD	4F	8F	9A	002A3		MOVZBL	#79, DESCRIPT		
	E8	AD	0000G	CF	9E	002A8		MOVAB	WORK AREA, DESCRIPT+4		
			E4	AD	9F	002AE		PUSHAB	DESCRIPT		
			24	AE	9F	002B1		PUSHAB	FILE_ID		
			7E	4F	8F	9A	002B4	MOVZBL	#79, -(SP)		
				7E	D4	002B8		CLRL	-(SP)		
	0000G	CF		04	FB	002BA		CALLS	#4, PARSE_NAME_TYPE		
		05		50	E9	002BF		BLBC	R0, 24\$		
	0000G	CF		01	8E	002C2		MNEGB	#1, ANSI_NAME_SIZE		
		50	0000G	CF	D0	002C7	24\$:	MOVL	HDR1, R0		
04	A0	20		11	28	002CC		MOV3	#17, FILE_ID, 4(R0)		
				0000G	CF	D0	002D2	MOVL	HDR4, R6		
05	A6	31		3E	28	002D7		MOV3	#62, FILE_ID+17, 5(R6)		
				50	34	AB	D0	002DD	MOVL	52(CURRENT_VCB), MVL	
				11	0C	AE	D1	002E1	CMPL	FILE_SPEC_LEN, #17	
				13	1A	002E5		BGTRU	26\$		
				03	22	A0	91	002E7	CMPB	34(MVL), #3	
				05	1B	002EB		BLEQU	25\$		
				04	A6	94	002ED	CLRB	4(R6)		
				33	11	002F0		BRB	28\$		
	43	A6	3030	8F	B0	002F2	25\$:	MOVW	#12336, 67(R6)		
				2B	11	002F8		BRB	28\$		
	51	OC		11	C3	002FA	26\$:	SUBL3	#17, FILE_SPEC_LEN, R1		
		03		A0	91	002FF		CMPB	34(MVL), #3		
				06	1B	00303		BLEQU	27\$		
				51	90	00305		MOVB	R1, 4(R6)		
				1A	11	00309		BRB	28\$		
				51	D0	0030B	27\$:	MOVL	R1, LEN		
	10	AE		02	D0	0030E		MOVL	#2, DESCR		
	14	AE		43	A6	9E	00312	MOVAB	67(R6), DESCR+4		
				50	DD	00317		PUSHL	LEN		
				14	AE	9F	00319	PUSHAB	DESCR		
				7E	D4	0031C		CLRL	-(SP)		
			FCC6	CF	9F	0031E		PUSHAB	CVT2		
				6A	04	FB	00322	CALLS	#4, SYSSFAO		
				0000G	CF	B5	00325	TSTW	LOCAL_FIB+10		
				19	13	00329		BEQL	30\$		
				7E	57	3C	0032B	MOVZWL	VERSION, -(SP)		
				24	AE	9F	0032E	PUSHAB	FILE_ID		
				7E	4F	8F	9A	00331	MOVZBL	#79, -(SP)	
				7E	D4	00335		CLRL	-(SP)		
				0000G	CF	95	00337	TSTB	ANSI_NAME_SIZE		
				02	18	0033B		BGEQ	29\$		
				6E	D6	0033D		INCL	(SP)		

.....

.....

```

0000G CF          04 FB 0033F 29$: CALLS #4, RESULTANT_STRING
          18      57 AE 9F 00344 30$: PUSHAB GEN_NUM_VER
          7E      57 3C 00347      MOVZWL VERSION, -(SP)
0000G CF          02 FB 0C34A      CALLS #2, CALC_TAPE_VER
          E4      06 D0 0034F      MOVL #6, DESCRIPT
          AD      23 C1 00353      ADDL3 #35, HDR1, DESCRIPT+4
0000G CF          1C AE DD 0035A      PUSHL GEN_NUM_VER+4
          1C      1C AE DD 0035D      PUSHL GEN_NUM_VER
          E4      AD 9F 00360      PUSHAB DESCRIPT
          FC8F    7E D4 00363      CLRL -(SP)
          6A      CF 9F 00365      PUSHAB P.AAJ
          05      FB 00369      CALLS #5, SYSSFAO
          04      04 0036C      RET
    
```

0984

: Routine Size: 877 bytes, Routine Base: \$CODE\$ + 004C

```

: 605      0985 1
: 606      0986 1 END
: 607      0987 1
: 608      0988 0 ELUDOM
    
```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	953	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$LOCKEDD1\$	10	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	50	0	1000	00:01.9

COMMAND QUALIFIERS

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

```

: 609      0989 0
: Size:    877 code + 86 data bytes
: Run Time: 00:19.9
    
```



