



```

FFFFFFFFF RRRRRRR MM MM 000000 DDDDDDD 11
FFFFFFFFF PRRRRRR MM MM 000000 DDDDDDD 11
FF RR RR MMMM MMMM 00 00 DD DD 1111
FF RR RR MMMM MMMM 00 00 DD DD 1111
FF RR RR MM MM MM 00 00 DD DD 11
FF RR RR MM MM MM 00 00 DD DD 11
FFFFFFF RRRRRRR MM MM 00 00 DD DD 11
FFFFFFF RRRRRRR MM MM 00 00 DD DD 11
FF RR RR MM MM 00 00 DD DD 11
FF RR RR MM MM 00 00 DD DD 11
FF RR RR MM MM 00 00 DD DD 11
FF RR RR MM MM 00 00 DD DD 11
FF RR RR MM MM 00 00 DD DD 11
FF RR RR MM MM 000000 DDDDDDD 111111
FF RR RR MM MM 000000 DDDDDDD 111111

```

```

LL IIIIII SSSSSSS
LL IIIIII SSSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LL II SSSSSS
LL II SSSSSS
LL II SS
LL II SS
LL II SS
LL II SS
LLLLLLLLL IIIIII SSSSSSS
LLLLLLLLL IIIIII SSSSSSS

```

```
1 0001 0
2 0002 0 MODULE FRMOD1 (LANGUAGE (BLISS32) ,
3 0003 0 IDENT = 'V04-000' ,
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
7 0007 1 *****
8 0008 1 *
9 0009 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *
10 0010 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *
11 0011 1 * ALL RIGHTS RESERVED. *
12 0012 1 *
13 0013 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *
14 0014 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE *
15 0015 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER *
16 0016 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY *
17 0017 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY *
18 0018 1 * TRANSFERRED. *
19 0019 1 *
20 0020 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE *
21 0021 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT *
22 0022 1 * CORPORATION. *
23 0023 1 *
24 0024 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *
25 0025 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *
26 0026 1 *
27 0027 1 *
28 0028 1 *****
29 0029 1
30 0030 1 ++
31 0031 1
32 0032 1 FACILITY: MTAACP
33 0033 1
34 0034 1 ABSTRACT:
35 0035 1
36 0036 1 This module formats a files-11 structure level 1
37 0037 1 file header
38 0038 1
39 0039 1 ENVIRONMENT:
40 0040 1
41 0041 1 Starlet operating system, including privileged system services
42 0042 1 and internal exec routines.
43 0043 1
44 0044 1 --
45 0045 1
46 0046 1
47 0047 1
48 0048 1 AUTHOR: D. H. GILLESPIE, CREATION DATE: 19-MAY-1977 17:06
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-002 LMP0221 L. Mark Pilant, 28-Mar-1984 13:25
53 0053 1 Change UCBSL_OWNUIC to ORBSL_OWNER and UCBSW_VPROT to
54 0054 1 ORBSW_PROT.
55 0055 1
56 0056 1 V03-001 MMD0155 Meg Dumont, 26-Apr-1983 9:15
57 0057 1 Cleanup of comments
```

```

58 0058 1 |
59 0059 1 | V02-010 DMW00057 David Michael Walp 7-Dec-1981
60 0060 1 | Changed CALC_VERSION to non-COMMON_CALL
61 0061 1 |
62 0062 1 | V02-009 DMW00056 David Michael Walp 30-Nov-1981
63 0063 1 | Added file name parsing routines. Part of ANSI 'a'
64 0064 1 | file name support
65 0065 1 |
66 0066 1 | V02-008 DMW00037 David Michael Walp 29-Sep-1981
67 0067 1 | Format the ODS1 header correctly
68 0068 1 |
69 0069 1 | V02-007 REFORMAT Maria del C. Nasr 30-Jun-1980
70 0070 1 |
71 0071 1 | A0006 MCN0003 Maria del C. Nasr 16-Oct-1979 14:06
72 0072 1 | Add HDR3 processing
73 0073 1 |
74 0074 1 | A0005 MCN0004 Maria del C. Nasr 15-Oct-1979 15:25
75 0075 1 | Changed to use new file header structure name
76 0076 1 |
77 0077 1 | **
78 0078 1 |
79 0079 1 | LIBRARY 'SYSS$LIBRARY:LIB.L32';
80 0080 1 |
81 0081 1 | REQUIRE 'SRC$:MTADEF.B32';
82 0465 1 |
83 0466 1 | LINKAGE
84 0467 1 | JSB_CHAR = JSB ( ) : GLOBAL ( CHAR_COUNT = 1, STRING_PTR = 2);
85 0468 1 |
86 0469 1 | EXTERNAL ROUTINE
87 0470 1 | LIB$CVT_DTB : ADDRESSING_MODE (ABSOLUTE); ! decimal to binary
88 0471 1 |
89 0472 1 | FORWARD ROUTINE
90 0473 1 | FORMAT_DATEOD1 : NOVALUE, ! formats date for ODS1
91 0474 1 | FORMAT_F11HOD1 : COMMON_CALL NOVALUE, ! format Files-11 ODS1 Header
92 0475 1 | FORMAT_FID : NOVALUE, ! format File Id
93 0476 1 | GETCHAR : JSB_CHAR; ! get char from input string
94 0477 1 |
95 0478 1 | EXTERNAL
96 0479 1 | HDR1 : REF BBLOCK, ! address of HDR1(EOF1) label
97 0480 1 | HDR4 : REF BBLOCK; ! address of HDR4(EOF4) label

```

```

99 M 0481 1 MACRO PARSE_TO_RAD50_FILE_ID =
100 M 0482 1
101 M 0483 1 !++
102 M 0484 1
103 M 0485 1 FUNCTIONAL DESCRIPTION:
104 M 0486 1 This routine parses the file identifier field in HDR1, trailing blanks
105 M 0487 1 are stripped from type and name fields, translate to RAD50 and
106 M 0488 1 calculate version number. If translating to RAD50 no need to interpret
107 M 0489 1 HDR4 information, beacuse the long file names are not supported in
108 M 0490 1 this mode.
109 M 0491 1
110 M 0492 1 CALLING SEQUENCE:
111 M 0493 1 PARSE_TO_RAD50_FILE_ID
112 M 0494 1
113 M 0495 1 INPUT PARAMETERS:
114 M 0496 1 none
115 M 0497 1
116 M 0498 1 IMPLICIT INPUTS:
117 M 0499 1 none
118 M 0500 1
119 M 0501 1 OUTPUT PARAMETERS:
120 M 0502 1 none
121 M 0503 1
122 M 0504 1 IMPLICIT OUTPUTS:
123 M 0505 1 none
124 M 0506 1
125 M 0507 1 ROUTINE VALUE:
126 M 0508 1 none
127 M 0509 1
128 M 0510 1 --
129 M 0511 1
130 M 0512 1 BEGIN
131 M 0513 1
132 M 0514 1 ! address of the name block in the FILE header
133 M 0515 1 !
134 M 0516 1 BIND
135 M 0517 1 NAM_BLK = HEADER[ FH1$C_LENGTH + FI1$W_FILENAME ] : VECTOR [ , WORD ];
136 M 0518 1
137 M 0519 1 EXTERNAL ROUTINE
138 M 0520 1 CALC_VERSION; ! get the version number
139 M 0521 1
140 M 0522 1 LOCAL
141 M 0523 1 TYPE_PTR: REF VECTOR [ , BYTE ]; ! addr of file type field
142 M 0524 1
143 M 0525 1 GLOBAL REGISTER
144 M 0526 1 CHAR_COUNT = 1 : LONG, ! number of characters left
145 M 0527 1 STRING_PTR = 2 : REF VECTOR [ , BYTE ]; ! string pointer
146 M 0528 1
147 M 0529 1 LITERAL
148 M 0530 1 MAX_NAME_LEN = 9, ! maximum file name length
149 M 0531 1 MAX_TYPE_LEN = 3, ! maximum file type length
150 M 0532 1 NAM_TYPE_FIELD = 3, ! file type offset in name BLK
151 M 0533 1 NAM_VER_FIELD = 4; ! file ver offset in name BLK
152 M 0534 1
153 M 0535 1
154 M 0536 1 !++
155 M 0537 1 !

```

```
156 M 0538 1 | PARSE and TRANSLATE to RAD50 THE FILE NAME FILE FIELD
157 M 0539 1 |
158 M 0540 1 | --
159 M 0541 1 |
160 M 0542 1 | ! setup address of the file id in HDR1
161 M 0543 1 |
162 M 0544 1 | STRING_PTR = HDR1 [ HD1ST_FILEID ];
163 M 0545 1 |
164 M 0546 1 | ! scan up to 9 characters or until a period is found
165 M 0547 1 |
166 M 0548 1 | CHAR_COUNT = CH$FIND CH ( MAX_NAME_LEN, .STRING_PTR, '.' );
167 M 0549 1 | CHAR_COUNT = ( IF CH$FAIL ( .CHAR_COUNT )
168 M 0550 1 | THEN MAX_NAME_LEN
169 M 0551 1 | ELSE .CHAR_COUNT - .STRING_PTR );
170 M 0552 1 |
171 M 0553 1 | ! save the pointer to the start of the file type field
172 M 0554 1 |
173 M 0555 1 | TYPE_PTR = STRING_PTR [ .CHAR_COUNT ];
174 M 0556 1 |
175 M 0557 1 | ! strip off trailing blanks
176 M 0558 1 |
177 M 0559 1 | DECR I FROM ( .CHAR_COUNT - 1 ) TO 0 DO
178 M 0560 1 | IF .STRING_PTR[.I] NEQ ' '
179 M 0561 1 | THEN EXITLOOP
180 M 0562 1 | ELSE CHAR_COUNT = .CHAR_COUNT - 1;
181 M 0563 1 |
182 M 0564 1 | ! convert file name to rad50
183 M 0565 1 |
184 M 0566 1 | INCRU I FROM 0 TO 2 DO
185 M 0567 1 | DECRU J FROM 3 TO 1 DO NAM_BLK[.I] = .NAM_BLK[.I]*40 + GETCHAR();
186 M 0568 1 |
187 M 0569 1 |
188 M 0570 1 | ++
189 M 0571 1 |
190 M 0572 1 | PARSE and TRANSLATE to RAD50 THE FILE NAME TYPE FIELD
191 M 0573 1 |
192 M 0574 1 | --
193 M 0575 1 |
194 M 0576 1 | ! pickup the saved address of file type string
195 M 0577 1 |
196 M 0578 1 | STRING_PTR = .TYPE_PTR;
197 M 0579 1 |
198 M 0580 1 | ! if we are at a "." use it as a delimiter
199 M 0581 1 |
200 M 0582 1 | IF .STRING_PTR[0] EQLU '.' THEN STRING_PTR = .STRING_PTR + 1;
201 M 0583 1 |
202 M 0584 1 | ! strip trailing spaces
203 M 0585 1 |
204 M 0586 1 | CHAR_COUNT = MAX_TYPE_LEN;
205 M 0587 1 | DECR I FROM 2 TO 0 DO
206 M 0588 1 | IF .STRING_PTR [ .I ] NEQ ' '
207 M 0589 1 | THEN EXITLOOP
208 M 0590 1 | ELSE CHAR_COUNT = .CHAR_COUNT - 1;
209 M 0591 1 |
210 M 0592 1 | ! convert the file type to RAD50
211 M 0593 1 |
212 M 0594 1 | DECRU I FROM 3 TO 1 DO
```

```
.. 213 M 0595 1  
.. 214 E 0596 1  
.. 215 E 0597 1  
.. 216 E 0598 1  
.. 217 E 0599 1  
.. 218 E 0600 1  
.. 219 E 0601 1  
.. 220 E 0602 1  
.. 221 E 0603 1  
.. 222 E 0604 1  
.. 223 E 0605 1  
.. 224 E 0606 1  
.. 225 E 0607 1  
.. 226 E 0608 1
```

```
NAM_BLK[NAM_TYPE_FIELD] = .NAM_BLK[NAM_TYPE_FIELD]*40 + GETCHAR();  
  
!++  
! convert generation number and generation version number to binary  
! file version number  
!--  
  
CALC_VERSION ( NAM_BLK [ NAM_VER_FIELD ] )  
  
END;  
%;
```

```

: 228 0609 1 ROUTINE GETCHAR : JSB_CHAR =
: 229 0610 1
: 230 0611 1 :++
: 231 0612 1
: 232 0613 1 :
: 233 0614 1 : FUNCTIONAL DESCRIPTION:
: 234 0615 1 :
: 235 0616 1 : This routine returns the rad-50 code of the next character in the
: 236 0617 1 : input string if it is in the rad-50 set. If end of string has been
: 237 0618 1 : reached, it returns zero. If it is a non-rad50 char, then it is
: 238 0619 1 : mapped to z. It uppercase letters.
: 239 0620 1 :
: 240 0621 1 : CALLING SEQUENCE:
: 241 0622 1 : GETCHAR ()
: 242 0623 1 :
: 243 0624 1 : INPUT PARAMETERS:
: 244 0625 1 : none
: 245 0626 1 :
: 246 0627 1 : IMPLICIT INPUTS:
: 247 0628 1 : STRING_PTR - string pointer
: 248 0629 1 : CHAR_COUNT - count of the number of characters
: 249 0630 1 :
: 250 0631 1 : OUTPUT PARAMETERS:
: 251 0632 1 : none
: 252 0633 1 :
: 253 0634 1 : IMPLICIT OUTPUTS:
: 254 0635 1 : STRING_PTR - string pointer
: 255 0636 1 : CHAR_COUNT - count of the number of characters
: 256 0637 1 :
: 257 0638 1 : ROUTINE VALUE:
: 258 0639 1 : character code
: 259 0640 1 :
: 260 0641 1 : SIDE EFFECTS:
: 261 0642 1 : Count decremented and stringp advanced.
: 262 0643 1 :
: 263 0644 1 : --
: 264 0645 2 BEGIN
: 265 0646 2
: 266 0647 2 EXTERNAL REGISTER
: 267 0648 2 CHAR_COUNT = 1 : LONG, ! number of characters left
: 268 0649 2 STRING_PTR = 2 : REF VECTOR [, BYTE]; ! pointer into the string
: 269 0650 2
: 270 0651 2 LITERAL
: 271 0652 2 RAD50_Z = ('Z' - 'A') + 1;
: 272 0653 2
: 273 0654 2 LOCAL
: 274 0655 2 CHAR; ! character in process
: 275 0656 2
: 276 0657 2 ! If the string is empty return 0 as the character
: 277 0658 2
: 278 0659 2 IF .CHAR_COUNT LEQ 0 THEN RETURN 0;
: 279 0660 2
: 280 0661 2 ! Get the next character from the string
: 281 0662 2
: 282 0663 2 CHAR = .STRING_PTR[0];
: 283 0664 2
: 284 0665 2 ! advance to next character

```



```

: 285      0666      2      !
: 286      0667      2      CHAR COUNT = .CHAR COUNT - 1;
: 287      0668      2      STRING_PTR = .STRING_PTR + 1;
: 288      0669      2
: 289      0670      2      RETURN SELECTONE .CHAR OF
: 290      0671      2      SET
: 291      0672      2      ['A' TO 'Z'] : (.CHAR - 'A') + 1;
: 292      0673      2      ['a' TO 'z'] : (.CHAR - 'a') + 1;
: 293      0674      2      ['0' TO '9'] : (.CHAR - '0') + 30;
: 294      0675      2      [OTHERWISE] : RAD50_Z;
: 295      0676      2      TES;
: 296      0677      1      END;

```

! end of routine getchar

```

.TITLE FRMOD1
.IDENT \V04-000\

.EXTRN LIB$CVT_DTB, HDR1
.EXTRN HDR4

.PSECT $CODE$,NOWRT,2

```

		53	DD	00000	GETCHAR:	PUSHL	R3		0609
		51	D5	00002		TSTL	CHAR_COUNT		0659
		4C	15	00004		BLEQ	5\$		
	50	82	9A	00006		MOVZBL	(STRING_PTR)+, CHAR		0663
00000041	8F	51	D7	00009		DECL	CHAR_COUNT		0667
		0F	19	00012		CMPL	CHAR, #65		0672
0000005A	8F	50	D1	00014		CMPL	CHAR, #90		
		06	14	0001B		BGTR	1\$		
	53	C0	A0	9E	0001D	MOVAB	-64(R0), R3		
		16	11	00021		BRB	2\$		
00000061	8F	50	D1	00023	1\$:	CMPL	CHAR, #97		0673
		12	19	0002A		BLSS	3\$		
0000007A	8F	50	D1	0002C		CMPL	CHAR, #122		
		09	14	00033		BGTR	3\$		
	53	A0	9E	00035		MOVAB	-96(R0), R3		
	50	53	D0	00039	2\$:	MOVL	R3, R0		
		16	11	0003C		BRB	6\$		
	30	50	D1	0003E	3\$:	CMPL	CHAR, #48		0674
		0A	19	00041		BLSS	4\$		
	39	50	D1	00043		CMPL	CHAR, #57		
		05	14	00046		BGTR	4\$		
	50	12	C2	00048		SUBL2	#18, R0		
		07	11	0004B		BRB	6\$		
	50	1A	D0	0004D	4\$:	MOVL	#26, R0		0675
		02	11	00050		BRB	6\$		0670
		50	D4	00052	5\$:	CLRL	R0		0677
		08	BA	00054	6\$:	POPR	#*M<R3>		
		05	05	00056		RSB			

; Routine Size: 87 bytes, Routine Base: \$CODE\$ + 0000

```

: 298 0678 1 GLOBAL ROUTINE FORMAT_F11HOD1 (HEADER) : COMMON_CALL NOVALUE =
: 299 0679 1
: 300 0680 1 !++
: 301 0681 1
: 302 0682 1 FUNCTIONAL DESCRIPTION:
: 303 0683 1 This routine formats an Ansi labeled magnetic tape file header
: 304 0684 1 for files-11 on-disk structure 1
: 305 0685 1
: 306 0686 1 CALLING SEQUENCE:
: 307 0687 1 FORMAT_F11HOD1(ARG1)
: 308 0688 1
: 309 0689 1 INPUT PARAMETERS:
: 310 0690 1 ARG1 - address of buffer
: 311 0691 1
: 312 0692 1 IMPLICIT INPUTS:
: 313 0693 1 CURRENT_UCB - address of current vcb
: 314 0694 1 tape header labels read in or defaulted
: 315 0695 1
: 316 0696 1 OUTPUT PARAMETERS:
: 317 0697 1 ARG1 - address of buffer
: 318 0698 1
: 319 0699 1 IMPLICIT OUTPUTS:
: 320 0700 1 none
: 321 0701 1
: 322 0702 1 ROUTINE VALUE:
: 323 0703 1 none
: 324 0704 1
: 325 0705 1 SIDE EFFECTS:
: 326 0706 1 header receives 512 characters of files-11 ODS-1 file header
: 327 0707 1
: 328 0708 1 !--
: 329 0709 1
: 330 0710 2 BEGIN
: 331 0711 2
: 332 0712 2 EXTERNAL REGISTER
: 333 0713 2 COMMON_REG;
: 334 0714 2
: 335 0715 2 EXTERNAL ROUTINE
: 336 0716 2 LIB$CVT_HTB : ADDRESSING_MODE (ABSOLUTE); ! hexadecimal to binary
: 337 0717 2
: 338 0718 2 MAP HEADER : REF BBLOCK; ! addr of output buffer
: 339 0719 2
: 340 0720 2 EXTERNAL
: 341 0721 2 LOCAL_FIB : BBLOCK,
: 342 0722 2 CURRENT_UCB : REF BBLOCK, ! addr of current UCB
: 343 0723 2 HDR2 : REF BBLOCK, ! addr of HDR2(E0F2) label
: 344 0724 2 HDR3 : REF BBLOCK; ! addr of HDR3(E0F3) label
: 345 0725 2
: 346 0726 2 LOCAL
: 347 0727 2 ORB : REF BBLOCK; ! Address of ORB
: 348 0728 2
: 349 0729 2 BIND
: 350 0730 2 RECTYPE_ANSI = UPLIT BYTE('UFDVS') : VECTOR [, BYTE],
: 351 0731 2 RECTYPE_FILE11 = UPLIT BYTE(0, 1, 2, 3, 0) : VECTOR [, BYTE],
: 352 0732 2 RECATR_ASCII = UPLIT BYTE('MA ') : VECTOR [, BYTE],
: 353 0733 2 RECATR_FILE11 = UPLIT BYTE(0, 1, 2) : VECTOR [, BYTE],
: 354 0734 2

```

```
355 0735 ! pointer into the record attributes in the header part
356 0736
357 0737 RECATTR = HEADER[FH1$W_RECATTR] : BBLOCK;
358 0738
359 0739 LITERAL
360 0740 RECTYPE_LEN = 5;
361 0741 RECATTR_LEN = 3;
362 0742
363 0743
364 0744 ! zero in the header
365 0745
366 0746 CH$FILL(0, 512, .HEADER);
367 0747
368 0748 ! fill in offset to ID and MAP areas
369 0749
370 0750 HEADER[FH1$B_IDOFFSET] = FH1$C_LENGTH/2;
371 0751 HEADER[FH1$B_MPOFFSET] = (FH1$C_LENGTH + FI1$C_LENGTH +
372 0752 FI1$$_MTHDR1 + FI1$$_MTHDR2 + FI1$$_MTHDR3)/2;
373 0753
374 0754
375 0755 !++
376 0756
377 0757 ! FILL IN THE FILE HEADER AREA OF THE HEADER
378 0758
379 0759 !--
380 0760
381 0761 ! structure level ( known constant )
382 0762
383 0763 HEADER[FH1$W_STRUCLEV] = FH1$C_LEVEL1;
384 0764
385 0765 ! fill in the File ID (FID)
386 0766
387 0767 FORMAT_FID(HEADER[FH1$W_FID_NUM]);
388 0768
389 0769 ! Get the address of the Object's Rights Block (ORB).
390 0770
391 0771 ORB = .CURRENT_UCB[UCB$L_ORB];
392 0772
393 0773 ! format fileowner from UCB, if the a long UIC, fold into [377,377]
394 0774
395 0775 IF .(ORB[ORB$W_UICGROUP])<8,8> NEQ 0
396 0776 OR .(ORB[ORB$W_UICMEMBER])<8,8> NEQ 0
397 0777 THEN HEADER[FH1$W_FILEOWNER] = -1
398 0778 ELSE
399 0779 BEGIN
400 0780 HEADER[FH1$B_UICMEMBER] = .ORB[ORB$W_UICMEMBER];
401 0781 HEADER[FH1$B_UICGROUP] = .ORB[ORB$W_UICGROUP];
402 0782 END;
403 0783
404 0784 ! protection from UCB
405 0785
406 0786 IF .ORB[ORB$V_PROT_16]
407 0787 THEN HEADER[FH1$W_FILEPROT] = .ORB[ORB$W_PROT]
408 0788 ELSE
409 0789 BEGIN
410 0790 (HEADER[FH1$W_FILEPROT])<0,4> = .(ORB[ORB$L_SYS_PROT])<0,4>;
411 0791 (HEADER[FH1$W_FILEPROT])<4,4> = .(ORB[ORB$L_OWN_PROT])<0,4>;
```

```

: 412 0792 3 (HEADER[FH1$W_FILEPROT])<8,4> = .(ORB[ORB$L_GRP_PROT])<0,4>;
: 413 0793 3 (HEADER[FH1$W_FILEPROT])<12,4> = .(ORB[ORB$L_WOR_PROT])<0,4>;
: 414 0794 2 2 END;
: 415 0795 2 2
: 416 0796 2 2
: 417 0797 2 2
: 418 0798 2 2 Fill in the Record Attributes in the Header Id Area
: 419 0799 2 2 1st Fill in the stuff from the ANSI field
: 420 0800 2 2 2nd Get the RMS stuff in HDR2 or HDR3
: 421 0801 2 2
: 422 0802 2 2
: 423 0803 2 2
: 424 0804 2 2
: 425 0805 2 2 ! fill in the type of record ( variable, fixed, undefined, spaned )
: 426 0806 2 2 ! assume undefined
: 427 0807 2 2
: 428 0808 2 2 RECATTR[FAT$B_RTYPE] = 0;
: 429 0809 2 2 DECR I FROM RECTYPE_LEN - 1 TO 0 DO
: 430 0810 2 2 IF .RECTYPE_ANSI[I] EQL .HDR2[HD2$B_RECFORMAT]
: 431 0811 2 2 THEN
: 432 0812 2 2 BEGIN
: 433 0813 2 2 RECATTR[FAT$B_RTYPE] = .RECTYPE_FILE11[I];
: 434 0814 2 2 EXITLOOP;
: 435 0815 2 2 END;
: 436 0816 2 2
: 437 0817 2 2 ! fill in form control ( Fortran, Form control in record, implied <CRLF> )
: 438 0818 2 2 ! assume implied <CRLF>
: 439 0819 2 2
: 440 0820 2 2 RECATTR[FAT$B_RATTRIB] = 2;
: 441 0821 2 2 DECR I FROM RECATTR_LEN - 1 TO 0 DO
: 442 0822 2 2 IF .RECATTR_ASCII[I] EQL .HDR2[HD2$B_FORMCNTRL]
: 443 0823 2 2 THEN
: 444 0824 2 2 BEGIN
: 445 0825 2 2 RECATTR[FAT$B_RATTRIB] = .RECATTR_FILE11[I];
: 446 0826 2 2 EXITLOOP;
: 447 0827 2 2 END;
: 448 0828 2 2
: 449 0829 2 2 ! fill in the record size and max size
: 450 0830 2 2
: 451 0831 2 2 BEGIN
: 452 0832 2 2 LOCAL VALUE;
: 453 0833 2 2
: 454 0834 2 2 LIB$CVT_DTB(HD2$S_RECLEN, HDR2[HD2$T_RECLEN], VALUE);
: 455 0835 2 2
: 456 0836 2 2 ! if variable length records subtract overhead
: 457 0837 2 2
: 458 0838 2 2 IF .HDR2[HD2$B_RECFORMAT] EQL 'D' THEN VALUE = .VALUE - 4;
: 459 0839 2 2
: 460 0840 2 2 RECATTR[FAT$W_RSIZ] = .VALUE<0, 16>;
: 461 0841 2 2 RECATTR[FAT$W_MAXREC] = .VALUE<0, 16>
: 462 0842 2 2 END;
: 463 0843 2 2
: 464 0844 2 2 ! if the file was created on a VMS system fill in RMS attributes
: 465 0845 2 2
: 466 0846 2 2 IF .CURRENT_VCB[VCB$V_STARFILE]
: 467 0847 2 2 THEN
: 468 0848 2 2 IF .(HDR2[HD2$T_RECATR1])<0,8> NEQ ' '

```

```
.. 469 0849 2
: 470 0850
: 471 0851
: 472 0852
: 473 0853
: 474 0854
: 475 0855
: 476 0856
: 477 0857
: 478 0858
: 479 0859
: 480 0860
: 481 0861
: 482 0862
: 483 0863
: 484 0864
: 485 0865
: 486 0866
: 487 0867
: 488 0868
: 489 0869
: 490 0870
: 491 0871
: 492 0872
: 493 0873
: 494 0874
: 495 0875
: 496 0876
: 497 0877
: 498 0878
: 499 0879
: 500 0880
: 501 0881
: 502 0882
: 503 0883
: 504 0884
: 505 0885
: 506 0886
: 507 0887
: 508 0888
: 509 0889
: 510 0890
: 511 0891
: 512 0892
: 513 0893
: 514 0894
: 515 0895
: 516 0896
: 517 0897
: 518 0898
: 519 0899
: 520 0900
: 521 0901
: 522 0902
: 523 0903
: 524 0904
: 525 0905 3

! old tape, attributes are in HDR2
THEN
  BEGIN
  CH$MOVE(HD2$$_RECATR1, HDR2[HD2$_RECATR1], RECATTR);
  CH$MOVE(HD2$$_RECATR2, HDR2[HD2$_RECATR2], RECATTR+HD2$$_RECATR1);
  END

! get attributes from HDR3, converting to binary
ELSE
  IF .HDR3[HD3$_L_HD3LID] EQL 'HDR3'
  THEN INCR I FROM 0 TO 28 BY 4 DO
    LIB$CVT_HTB(8, HDR3[HD3$_RECATR] + (.I*2), RECATTR + .I);

! records do not span block boundaries if the user requests the original
! attributes of the file, don't set span
IF NOT .LOCAL_FIB[FIB$_V_PRSRV_ATR]
THEN RECATTR[FAT$_B_RATTRIB] =-.RECATTR[FAT$_B_RATTRIB] OR FAT$_M_NOSPAN;

!++
! FILL IN THE FILE ID AREA OF THE HEADER
!--

! fill in the file name, type and version
PARSE_TO_RAD50_FILE_ID;

! fill the creation and expiration dates
FORMAT_DATEOD1(HDR1[HD1$_CREATEDT], HEADER[FH1$_C_LENGTH+FI1$_C_CREATE], 1);
FORMAT_DATEOD1(HDR1[HD1$_EXPIREDT], HEADER[FH1$_C_LENGTH+FI1$_C_EXPDATE], 0);

! move the tape file header labels into the ident area of the ODS1 header
CH$MOVE( FI1$_MTHDR1 + FI1$_MTHDR2 + FI1$_MTHDR3,
        .HDR1, HEADER[FH1$_C_LENGTH + FI1$_MTHDR1]);

!++
! CREATE A DUMMY MAP AREA FOR THE ODS1 HEADER
!--
BEGIN
LOCAL MAP_AREA : REF BBLOCK;

MAP_AREA = .HEADER + (.HEADER [ FH1$_MPOFFSET ] * 2 );
MAP_AREA[FM1$_B_COUNTSIZE] = 1;
MAP_AREA[FM1$_B_LBNSIZE] = 3;
```

```

: 526 0906 3 MAP_AREA[FM1$B_AVAIL] =
: 527 0907 3 (HEADER[FHT$W_CHECKSUM] - .MAP_AREA - FM1$C_LENGTH) / 2;
: 528 0908 3
: 529 0909 3 END;
: 530 0910 3
: 531 0911 3
: 532 0912 3 !++
: 533 0913 3 !
: 534 0914 3 CALCULATE THE CHECKSUM
: 535 0915 3 !
: 536 0916 3 --
: 537 0917 3 BEGIN
: 538 0918 3 BIND
: 539 0919 3 ! reference the dummy ODS1 header as word
: 540 0920 3
: 541 0921 3 VHEADER = HEADER : REF VECTOR [, WORD];
: 542 0922 3
: 543 0923 3 ! now calculate checksum
: 544 0924 3
: 545 0925 3 DECR I FROM 254 TO 0 DO
: 546 0926 3 HEADER[FH1$W_CHECKSUM] = .HEADER[FH1$W_CHECKSUM] + .VHEADER[I]
: 547 0927 3 END;
: 548 0928 3
: 549 0929 3 END;

```

! end of routine

```

53 56 44 46 55 00057 P.AAA: .ASCII \UFDVS\
00 03 02 01 00 0005C P.AAB: .BYTE 0, 1, 2, 3, 0
20 41 40 00061 P.AAC: .ASCII \MA \
02 01 00 00064 P.AAD: .BYTE 0, 1, 2

```

```

RECTYPE_ANSI= P.AAA
RECTYPE_FILE11= P.AAB
RECATTR_ASCII= P.AAC
RECATTR_FILE11= P.AAD
.EXTRN LIB$CVT_HTB, LOCAL_FIB
.EXTRN CURRENT_UCB, HDR2
.EXTRN HDR3, CALC_VERSION

```

```

07FC 00000 .ENTRY FORMAT_F11HOD1, Save R2,R3,R4,R5,R6,R7,R8,- ; 0678
R9,R10
5A 94 AF 9E 00002 MOVAB GETCHAR, R10
5E 04 C2 00006 SUBL2 #4, SP
58 04 AC D0 00009 MOVL HEADER, R8 ; 0737
56 0E A8 9E 0000D MOVAB 14(R8), R6
6E 00 2C 00011 MOVCS #0, (SP), #0, #512, (R8) ; 0746
68 68 00018
06 68 A617 8F B0 00019 MOVW #42519, (R8) ; 0750
A8 0101 8F B0 0001E MOVW #257, 6(R8) ; 0763
02 A8 9F 00024 PUSHAB 2(R8) ; 0767
0000V CF 01 FB 00027 CALLS #1, FORMAT_FID
50 0000G CF D0 0002C MOVL CURRENT_UCB, R0 ; 0771
50 1C A0 D0 00031 MOVL 28(R0), -ORB
03 A0 95 00035 TSTB 3(ORB) ; 0775
05 12 00038 BNEQ 1$
01 A0 95 0003A TSTB 1(ORB) ; 0776

```

				06	13	0003D		BEQL	2\$			
		08	A8	01	AE	0003F	1\$:	MNEGW	#1, 8(R8)			0777
				09	11	00043		BRB	3\$			
		08	A8	60	90	00045	2\$:	MOVB	(ORB), 8(R8)			0780
		09	A8	02	A0	90	00049	MOVB	2(ORB), 9(R8)			0781
			51	0A	A8	9E	0004E	3\$:	MOVAB	10(R8), R1		0787
			06	0B	A0	E9	00052	BLBC	11(ORB), 4\$			0786
			61	18	A0	B0	00056	MOVW	24(ORB), (R1)			0787
					19	11	0005A	BRB	5\$			
	61		00	18	A0	F0	0005C	4\$:	INSV	24(ORB), #0, #4, (R1)		0790
	61	04	04	1C	A0	F0	00062	INSV	28(ORB), #4, #4, (R1)			0791
01	A1	04	00	20	A0	F0	00068	INSV	32(ORB), #0, #4, 1(R1)			0792
	61	04	0C	24	A0	F0	0006F	INSV	36(ORB), #12, #4, (R1)			0793
				66	94	00075	5\$:	CLRB	(R6)			0808
			51	0000G	CF	D0	00077	MOVL	HDR2, R1			0810
			50		04	D0	0007C	MOVL	#4, I			
		04	A1	FF6C	CF40	91	0007F	6\$:	CMPB	RECTYPE_ANSI[I], 4(R1)		
					08	12	00086	BNEQ	7\$			
			66	FF68	CF40	90	00088	MOVB	RECTYPE_FILE11[I], (R6)			0813
					03	11	0008E	BRB	8\$			0812
			EC		50	F4	00090	7\$:	SOBGEQ	I, 6\$		0810
		01	A6		02	90	00093	8\$:	MOVB	#2, 1(R6)		0820
			50		02	D0	00097	MOVL	#2, I			0822
		24	A1	FF5B	CF40	91	0009A	9\$:	CMPB	RECATR_ASCII[I], 36(R1)		
					09	12	000A1	BNEQ	10\$			
		01	A6	FF55	CF40	90	000A3	MOVB	RECATR_FILE11[I], 1(R6)			0825
					03	11	000AA	BRB	11\$			0824
			EB		50	F4	000AC	10\$:	SOBGEQ	I, 9\$		0822
					5E	DD	000AF	11\$:	PUSHL	SP		0834
				0A	A1	9F	000B1	PUSHAB	10(R1)			
					05	DD	000B4	PUSHL	#5			
			00000000G	9F	03	FB	000B6	CALLS	#3, @#LIB\$CVT_DTB			
				57	CF	D0	000BD	MOVL	HDR2, R7			0838
			44	8F	04	A7	91	000C2	CMPB	4(R7), #68		
					03	12	000C7	BNEQ	12\$			
			6E		04	C2	000C9	SUBL2	#4, VALUE			
			02	A6	6E	B0	000CC	12\$:	MOVW	VALUE, 2(R6)		0840
			10	A6	6E	B0	000D0	MOVW	VALUE, 16(R6)			0841
				3A	2D	AB	E9	000D4	BLBC	45(CURRENT VCB), 15\$		0846
				20	0F	A7	91	000D8	CMPB	15(R7), #32		0848
					0D	13	000DC	BEQL	13\$			
			66	0F	A7	14	28	000DE	MOV3	#20, 15(R7), (R6)		0854
		14	A6	25	A7	0C	28	000E3	MOV3	#12, 37(R7), 20(R6)		0855
					27	11	000E9	BRB	15\$			0848
			33524448	8F	0000G	DF	D1	000EB	13\$:	CMPB	@HDR3, #861029448	0861
						1C	12	000F4	BNEQ	15\$		
						52	D4	000F6	CLRL	I		0862
					6246	9F	000F8	14\$:	PUSHAB	(I)[R6]		0863
					0000G	DF42	3F	000FB	PUSHAW	@HDR3[I]		
				6E	04	C0	00100	ADDL2	#4, (SP)			
					08	DD	00103	PUSHL	#8			
			00000000G	9F	03	FB	00105	CALLS	#3, @#LIB\$CVT_HTB			
				52	04	1C	F1	0010C	ACBL	#28, #4, I, 14\$		
			04	0000G	CF	01	E0	00112	15\$:	BBS	#1, LOCAL_FIB+2, 16\$	0869
				01	A6	08	88	00118	BISB2	#8, 1(R6)		0870
					54	2E	AB	9E	0011C	16\$:	MOVAB	46(R8), R4
			52	0000G	CF	04	C1	00120	ADDL3	#4, HDR1, STRING_PTR		

: R

: .....

: .....

: .....

62	09	2E	3A	00126	LOCC	#46, #9, (STRING_PTR)		
		02	12	0012A	BNEQ	17\$		
		51	D4	0012C	CLRL	R1		
		51	D5	0012E	TSTL	CHAR_COUNT		
		05	12	00130	BNEQ	18\$		
	51	09	D0	00132	MOVL	#9, CHAR_COUNT		
		03	11	00135	BRB	19\$		
	51	52	C2	00137	SUBL2	STRING_PTR, CHAR_COUNT		
59	52	51	C1	0013A	ADDL3	CHAR_COUNT, STRING_PTR, TYPE_PTR		
	50	51	D0	0013E	MOVL	CHAR_COUNT, I		
		08	11	00141	BRB	21\$		
	20	6042	91	00143	CMPB	(I)[STRING_PTR], #32		
		05	12	00147	BNEQ	22\$		
		51	D7	00149	DECL	CHAR_COUNT		
	F5	50	F4	0014B	SOBGEQ	I, 20\$		
		53	D4	0014E	CLRL	I		
55	53	01	78	00150	ASHL	#1, I, R5		
	56	03	D0	00154	MOVL	#3, J		
		6544	9F	00157	PUSHAB	(R5)[R4]		
	57	9E	3C	0015A	MOVZWL	@(SP)+, R7		
	57	28	C4	0015D	MULL2	#40, R7		
		6A	16	00160	JSB	GETCHAR		
		6544	9F	00162	PUSHAB	(R5)[R4]		
9E	57	50	A1	00165	ADDW3	R0, R7, @(SP)+		
		56	D7	00169	DECL	J		
		EA	12	0016B	BNEQ	24\$		
		53	D6	0016D	INCL	I		
	02	53	D1	0016F	CMPB	I, #2		
		DC	1B	00172	BLEQU	23\$		
	52	59	D0	00174	MOVL	TYPE_PTR, STRING_PTR		
	2E	62	91	00177	CMPB	(STRING_PTR), #48		
		02	12	0017A	BNEQ	25\$		
		52	D6	0017C	INCL	STRING_PTR		
	51	03	D0	0017E	MOVL	#3, CHAR_COUNT		
	50	02	D0	00181	MOVL	#2, I		
	20	6042	91	00184	CMPB	(I)[STRING_PTR], #32		
		05	12	00188	BNEQ	27\$		
		51	D7	0018A	DECL	CHAR_COUNT		
	F5	50	F4	0018C	SOBGEQ	I, 28\$		
	53	03	D0	0018F	MOVL	#3, I		
	55	06	A4	00192	MOVZWL	6(R4), R5		
	55	28	C4	00196	MULL2	#40, R5		
		6A	16	00199	JSB	GETCHAR		
06	A4	50	A1	0019B	ADDW3	R0, R5, 6(R4)		
		53	D7	001A0	DECL	I		
		EE	12	001A2	BNEQ	28\$		
		08	A4	001A4	PUSHAB	8(R4)		
	0000G	CF	01	001A7	CALLS	#1, CALC_VERSION		
			01	001AC	PUSHL	#1	0885	
		47	A8	001AE	PUSHAB	71(R8)		
7E	0000G	CF	29	001B1	ADDL3	#41, HDR1, -(SP)		
	0000V	CF	03	001B7	CALLS	#3, FORMAT_DATEOD1		
			7E	001BC	CLRL	-(SP)	0886	
		54	A8	001BE	PUSHAB	84(R8)		
7E	0000G	CF	2F	001C1	ADDL3	#47, HDR1, -(SP)		
	0000V	CF	03	001C7	CALLS	#3, FORMAT_DATEOD1		
5C	A8	0000G	DF	00F0	8F	28	001CC	0891
					MOV3	#240, @HDRT, 92(R8)		





```

551 0930 1 ROUTINE FORMAT_DATEOD1 (INPDT, OUTPTR, TIME_REQUESTED) : NOVALUE =
552 0931 1
553 0932 1 ++
554 0933 1
555 0934 1 FUNCTIONAL DESCRIPTION:
556 0935 1 This routine formats an on-disk structure one date from the
557 0936 1 julian date on an Ansi labeled magnetic tape.
558 0937 1
559 0938 1 CALLING SEQUENCE:
560 0939 1 FORMAT_DATEOD1(ARG1,ARG2,ARG3)
561 0940 1
562 0941 1 INPUT PARAMETERS:
563 0942 1 ARG1 - address of input julian date
564 0943 1 ARG2 - address of output buffer
565 0944 1 ARG3 - 0 if time is not requested, 1 if time is requested
566 0945 1
567 0946 1 IMPLICIT INPUTS:
568 0947 1 none
569 0948 1
570 0949 1 OUTPUT PARAMETERS:
571 0950 1 ARG2 - address of output buffer
572 0951 1
573 0952 1 IMPLICIT OUTPUTS:
574 0953 1 none
575 0954 1
576 0955 1 ROUTINE VALUE:
577 0956 1 none
578 0957 1
579 0958 1 SIDE EFFECTS:
580 0959 1 date attribute written to output buffer (ddmmyy)
581 0960 1 if time wanted, followed by (000000)
582 0961 1
583 0962 1 --
584 0963 1
585 0964 2 BEGIN
586 0965 2
587 0966 2 LOCAL
588 0967 2 DATA : BLOCK [ BYTE, 12 ], ! work area in which date is formatted
589 0968 2 PTR, ! pointer to output buffer
590 0969 2 INPTR, ! pointer to input buffer
591 0970 2 CHAR; ! char from input string
592 0971 2
593 0972 2 EXTERNAL ROUTINE
594 0973 2 CONVDATE_J2R; ! convert ANSI Julian date to VMS date
595 0974 2
596 0975 2 ! convert julian date in hdr1 to ddmmyy and if time is requested, return
597 0976 2 zeros
598 0977 2 ! assume output buffer initialized to zero
599 0978 2
600 0979 2 IF NOT CONVDATE_J2R(DATA, .INPDT) THEN RETURN;
601 0980 2
602 0981 2 (.OUTPTR)<0, 16> = .(DATA)<0, 16>;
603 0982 2 (.OUTPTR + 2)<0, 24> = .(DATA + 3)<0, 24>;
604 0983 2 (.OUTPTR + 5)<0, 16> = .(DATA + 9)<0, 16>;
605 0984 2
606 0985 2 IF .TIME_REQUESTED THEN CH$FILL('0', 6, (.OUTPTR + 7));
607 0986 2

```

: 608 0987 1 END;

! end of routine

.EXTRN CONVDATE\_J2R

003C 00000 FORMAT\_DATEOD1:

			SE		0C C2 00002	.WORD	Save R2,R3,R4,R5	: 0930
				04 AC DD 00005	SUBL2	#12, SP		
				04 AE 9F 00008	PUSHL	INPDT		: 0979
		0000G	CF	02 FB 0000B	PUSHAB	DATA		
			1E	50 E9 00010	CALLS	#2, CONVDATE_J2R		
			50	08 AC D0 00013	BLBC	R0, 1\$		
			60	6E B0 00017	MOVL	OUTPTR, R0		: 0981
02	A0		00	03 AE F0 0001A	MOVW	DATA, (R0)		
		18	05	09 AE B0 00021	INSV	DATA+3, #0, #24, 2(R0)		: 0982
			07	0C AC E9 00026	MOVW	DATA+9, 5(R0)		: 0983
			6E	00 AC E9 00026	BLBC	TIME REQUESTED, 1\$		: 0985
	06	30		07 AO 2C 0002A	MOVCS	#0, (SP), #48, #6, 7(R0)		
				04 AO 0002F				
				04 00031 1\$:	RET			: 0987

: Routine Size: 50 bytes, Routine Base: \$CODE\$ + 0272

: 609 0988 1

```

: 611 0989 1 GLOBAL ROUTINE FORMAT_FID (BUFFER) : NOVALUE =
: 612 0990 1
: 613 0991 1 |++
: 614 0992 1
: 615 0993 1 FUNCTIONAL DESCRIPTION:
: 616 0994 1 This routine formats the binary file id.
: 617 0995 1
: 618 0996 1 CALLING SEQUENCE:
: 619 0997 1 FORMAT_FID(ARG1)
: 620 0998 1
: 621 0999 1 INPUT PARAMETERS:
: 622 1000 1 ARG1 - address of buffer to receive 4 byte binary file id
: 623 1001 1
: 624 1002 1 IMPLICIT INPUTS:
: 625 1003 1 HDR1 in label area
: 626 1004 1
: 627 1005 1 OUTPUT PARAMETERS:
: 628 1006 1 ARG1 - address of buffer to received binary file id
: 629 1007 1
: 630 1008 1 IMPLICIT OUTPUTS:
: 631 1009 1 none
: 632 1010 1
: 633 1011 1 ROUTINE VALUE:
: 634 1012 1 none
: 635 1013 1
: 636 1014 1 SIDE EFFECTS:
: 637 1015 1 buffer receives binary file id
: 638 1016 1 1 word file number (HDR1 section number)
: 639 1017 1 1 word file sequence number (HDR1 sequence number)
: 640 1018 1
: 641 1019 1 |--
: 642 1020 1
: 643 1021 2 BEGIN
: 644 1022 2
: 645 1023 2 LOCAL
: 646 1024 2 RESULT; ! long word work area for conversions
: 647 1025 2
: 648 1026 2 ! convert file number first
: 649 1027 2
: 650 1028 2 IF NOT LIB$CVT_DTB(HD1$$_FILESEQNO, HDR1[HD1$T_FILESEQNO], RESULT)
: 651 1029 2 THEN
: 652 1030 2 RESULT = 0;
: 653 1031 2
: 654 1032 2 ! store file number
: 655 1033 2
: 656 1034 2 (.BUFFER)<0, 16> = .RESULT<0, 16>;
: 657 1035 2
: 658 1036 2 ! convert file sequence number
: 659 1037 2
: 660 1038 2 IF NOT LIB$CVT_DTB(HD1$$_FILESECNO, HDR1[HD1$T_FILESECNO], RESULT)
: 661 1039 2 THEN
: 662 1040 2 RESULT = 0;
: 663 1041 2
: 664 1042 2 ! store file sequence number
: 665 1043 2
: 666 1044 2 (.BUFFER)<16, 16> = .RESULT<0, 16>;
: 667 1045 1 END; ! end of routine

```

				0004 00000	.ENTRY	FORMAT FID, Save R2		0989
	52	00000000G	9F	9E 00002	MOVAB	@#LIB\$CVT_DTB, R2		
	5E		04	C2 00009	SUBL2	#4, SP		
	7E	0000G	5E	DD 0000C	PUSHL	SP		1028
			1F	C1 0000E	ADDL3	#31, HDR1, -(SP)		
			04	DD 00014	PUSHL	#4		
	62		03	FB 00016	CALLS	#3, LIB\$CVT_DTB		
	02		50	E8 00019	BLBS	R0, 1\$		
			6E	D4 0001C	CLRL	RESULT		1030
	04	BC	6E	B0 0001E 1\$:	MOVW	RESULT, @BUFFER		1034
			5E	DD 00022	PUSHL	SP		1038
	7E	0000G	1B	C1 00024	ADDL3	#27, HDR1, -(SP)		
			04	DD 0002A	PUSHL	#4		
	62		03	FB 0002C	CALLS	#3, LIB\$CVT_DTB		
	02		50	E8 0002F	BLBS	R0, 2\$		
			6E	D4 00032	CLRL	RESULT		1040
04	BC	10	6E	F0 00034 2\$:	INSV	RESULT, #16, #16, @BUFFER		1044
			04	0003A	RET			1045

; Routine Size: 59 bytes, Routine Base: \$CODE\$ + 02A4

:	668	1046	1
:	669	1047	1 END
:	670	1048	1
:	671	1049	0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	735	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	61	0	1000	00:01.8

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:FRMOD1/OBJ=OBJ\$:FRMOD1 MSRC\$:FRMOD1/UPDATE=(ENH\$:FRMOD1)

: Size: 719 code + 16 data bytes  
: Run Time: 00:17.8  
: Elapsed Time: 00:35.3  
: Lines/CPU Min: 3528  
: Lexemes/CPU-Min: 20468  
: Memory Used: 223 pages  
: Compilation Complete

.....



