

|              |     |                  |     |        |           |           |             |             |
|--------------|-----|------------------|-----|--------|-----------|-----------|-------------|-------------|
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000000000 | FFFFFFFFFFF | FFFFFFFFFFF |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000000000 | FFFFFFFFFFF | FFFFFFFFFFF |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000000000 | FFFFFFFFFFF | FFFFFFFFFFF |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNNNNN | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNNNNN | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNNNNN | NNN       | 000       | FFF         | FFF         |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000       | FFFFFFFFF   | FFFFFFFFF   |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000       | FFFFFFFFF   | FFFFFFFFF   |
| RRRRRRRRRRRR |     | UUU              | UUU | NNN    | NNN       | 000       | FFFFFFFFF   | FFFFFFFFF   |
| RRR          | RRR | UUU              | UUU | NNN    | NNNNNN    | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNNNNN    | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNNNNN    | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUU              | UUU | NNN    | NNN       | 000       | FFF         | FFF         |
| RRR          | RRR | UUUUUUUUUUUUUUUU | NNN | NNN    | 000000000 | FFF       | FFF         |             |
| RRR          | RRR | UUUUUUUUUUUUUUUU | NNN | NNN    | 000000000 | FFF       | FFF         |             |
| RRR          | RRR | UUUUUUUUUUUUUUUU | NNN | NNN    | 000000000 | FFF       | FFF         |             |

[illegible]

```

LL          IIIIII
LL          IIIIII
LL          II
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LL          II
LLLLLLLLLLLL IIIIII
LLLLLLLLLLLL IIIIII

          SSSSSSSS
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          SSSSSSSS
          SSSSSSSS

```



```
0001 0 %TITLE 'O/P module for processing HEADER: figure, table, example, level'
0002 0 MODULE OUTHDR (IDENT = 'V04-000'
P 0003 0 %BLISS32 [ , ADDRESSING_MODE ( EXTERNAL = LONG_RELATIVE,
0004 0 NONEXTERNAL = LONG_RELATIVE) ]
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0023 1 * CORPORATION.
0024 1 *
0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1 ++
0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
0033 1
0034 1 ABSTRACT: General purpose processor for headers of various kinds
0035 1
0036 1 ENVIRONMENT: Transportable
0037 1
0038 1 AUTHOR: R.W.Friday CREATION DATE: March, 1982
0039 1
```

```

: 41 0040 1 %SBTTL 'Revision History'
: 42 0041 1
: 43 0042 1 MODIFIED BY:
: 44 0043 1
: 45 0044 1 017 REM00017 Ray Marshall 21-Mar-1984 -- 4-Apr-1984
: 46 0045 1 Implemented the foreign language conditionals for compiling
: 47 0046 1 fixed output words.
: 48 0047 1
: 49 0048 1 016 KFA00016 Ken Alden 15-Nov-1983
: 50 0049 1 Reversed action performed in #14, so now the toctxt and tochl
: 51 0050 1 records are shipped out for and header ...
: 52 0051 1
: 53 0052 1 015 KFA00015 Ken Alden 01-Nov-1983
: 54 0053 1 For FLIP, loosened restriction imposed in #014 to provide
: 55 0054 1 support for .HE, .HF, .HT.
: 56 0055 1
: 57 0056 1 014 KAD00014 Keith Dawson 25-May-1983
: 58 0057 1 For FLIP, forbid writing header information to the TOC for
: 59 0058 1 .HE, .HF, .HT. This is a FLIP Level 1 requirement that can
: 60 0059 1 be loosened for Level 2 support.
: 61 0060 1
: 62 0061 1 013 KAD00013 Keith Dawson 19-May-1983
: 63 0062 1 Moved the location at which the SCA_HEADER bit, used by FLIP,
: 64 0063 1 is set. This bit was not serving its purpose -- communica-
: 65 0064 1 ting between this module and LOHORI -- because a new save
: 66 0065 1 and restore of the SCA intervened.
: 67 0066 1
: 68 0067 1 012 KFA00012 Ken Alden 16-Mar-1983
: 69 0068 1 PUSH/POP_SCA now visible to dsr.
: 70 0069 1
: 71 0070 1 011 KFA00011 Ken Alden 11-Mar-1983
: 72 0071 1 For DSRPLUS: hl emphasis is always passed to the BRN,
: 73 0072 1 regardless of whether it is autosubtitle or not.
: 74 0073 1
: 75 0074 1 010 KAD00010 Keith Dawson 07-Mar-1983
: 76 0075 1 Global edit of all modules. Updated module names, idents,
: 77 0076 1 copyright dates. Changed require files to BLISS library.
: 78 0077 1
: 79 0078 1 --
```



```

: 81      0079 1 %SBTTL 'Module Level Declarations'
: 82      0080 1
: 83      0081 1   TABLE OF CONTENTS:
: 84      0082 1
: 85      0083 1 FORWARD ROUTINE
: 86      0084 1   OUTHDR : NOVALUE,      ! Generate numbered or unnumbered header.
: 87      0085 1   OUTCTR : NOVALUE;      ! Generate counter for the header.
: 88      0086 1
: 89      0087 1   INCLUDE FILES:
: 90      0088 1
: 91      0089 1
: 92      0090 1 LIBRARY 'NXPORT:XPORT';    ! XPORT Library
: 93      0091 1 REQUIRE 'REQ:RNODEF';      ! RUNOFF variant definitions
: 94      0222 1
: 95      U 0223 1 %IF DSRPLUS %THEN
: 96      U 0224 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
: 97      0225 1 %ELSE
: 98      0226 1 LIBRARY 'REQ:DSRLIB';      ! DSR BLISS Library
: 99      0227 1 %FI
: 100     0228 1
: 101     0229 1
: 102     0230 1   MACROS:
: 103     0231 1
: 104     0232 1
: 105     0233 1   EQUATED SYMBOLS:
: 106     0234 1
: 107     0235 1
: 108     0236 1 EXTERNAL LITERAL
: 109     0237 1   RINTES : UNSIGNED (8);
: 110     0238 1
: 111     0239 1 EXTERNAL LITERAL
: 112     0240 1   S_FMRA;                  !Allocated length for footnote MRA.
: 113     0241 1
: 114     0242 1   OWN STORAGE:
: 115     0243 1
: 116     0244 1 OWN
: 117     0245 1   PP_SCA : $H_R_SCA_BLOCK; !Used in PUSH_SCA, POP_SCA macros (defined in SCA.REQ).
: 118     0246 1
: 119     0247 1   EXTERNAL REFERENCES:
: 120     0248 1
: 121     0249 1
: 122     0250 1 EXTERNAL
: 123     0251 1   FOOMRA : FIXED STRING,
: 124     0252 1   FOOTSF : VECTOR [TSF_SIZE],
: 125     0253 1   FS01 : FIXED STRING,
: 126     0254 1   ECC : $ECC_BLOCKVECTOR,    ! Counters and display codes for Examples, Figures, Tables
: 127     0255 1   GCA : GCA_DEFINITION,
: 128     0256 1   HLC : HLC_DEFINITION,
: 129     0257 1   HLDSP : VECTOR [MAX_LEVELS],
: 130     0258 1   HLLIST : COUNTED LIST,
: 131     0259 1   IRA : FIXED STRING,
: 132     0260 1   MRA : REF FIXED STRING,
: 133     0261 1   NPAGEN : PAGE_DEFINITION,
: 134     0262 1   PAGEN : PAGE_DEFINITION,
: 135     0263 1   PHAN : PHAN_DEFINITION,
: 136     0264 1   SBTMRA : FIXED STRING,
: 137     0265 1   SBTTSF : VECTOR,

```

OUTHDR  
V04-000

O/P module for processing HEADER: figure, table  
Module Level Declarations

E 10

16-Sep-1984 01:20:29  
14-Sep-1984 13:07:31

VAX-11 Bliss-32 V4.0-742  
[RUNOFF.SRC]OUTHDR.BLI;1

Page 4  
(3)

```
: 138      0266 1      SCA : SCA_DEFINITION,  
: 139      0267 1      TSF : TSF_DEFINITION;  
: 140      0268 1  
: 141      0269 1  EXTERNAL  
: 142      0270 1      KHAR;  
: 143      0271 1  
: 144      0272 1  EXTERNAL ROUTINE  
: 145      0273 1      endchr,      endwrld,      gcskip,      gtpc,      outnj,  
: 146      0274 1      outcrg,      pacsec,      pacxxx,      puttpg,      putcnt,  
: 147      0275 1      putttx,      scant,      setcas,      rskips,      titles;
```

OUT  
V04



```

149 0276 1 GLOBAL ROUTINE OUTHDR
150 0277 1 (
151 0278 1     lines_before,      lines_after,      test_page_amount,
152 0279 1     counter_major_type, counter_minor_type,
153 0280 1     counter_value,    counter_display_code, counter_spaces_after,
154 0281 1     counter_pre_string_length, counter_pre_string_ptr,
155 0282 1     counter_post_string_length, counter_post_string_ptr,
156 0283 1     caption_major_type, caption_minor_type, caption_case,
157 0284 1     caption_is_centered, caption_is_flush_right, caption_is_run_in,
158 0285 1     caption_is_bold,   caption_is_underlined, put_into_mem_file,
159 0286 1     autosubtitle,      brn_open,      break_before_caption,
160 0287 1     lines_between,    new_page,      startodd,
161 0288 1     tocpage
162 0289 1 )
163 0290 1 : NOVALUE =
164 0291 1 ++
165 0292 1 FUNCTIONAL DESCRIPTION:
166 0293 1
167 0294 1     See the ABSTRACT, above.
168 0295 1
169 0296 1 FORMAL PARAMETERS:
170 0297 1
171 0298 1 LINES_BEFORE      leave this many blank lines before the header
172 0299 1 LINES_AFTER      leave this many blank lines after the (non-run-in) header
173 0300 1 TEST_PAGE_AMOUNT start a new page unless this many lines remain
174 0301 1 COUNTER_MAJOR_TYPE (not implemented) always MAJ_RUNOFF
175 0302 1 COUNTER_MINOR_TYPE specifies type of header: HL, Example, Figure, Table
176 0303 1 COUNTER_VALUE      (not used for HLs) numerical value of the counter
177 0304 1 COUNTER_DISPLAY_CODE (not used for HLs) display code of the counter
178 0305 1 COUNTER_SPACES_AFTER leave this many spaces between counter and caption
179 0306 1 COUNTER_PRE_STRING_LENGTH (not used for HLs) length of pre-counter string
180 0307 1 COUNTER_PRE_STRING_PTR (not used for HLs) pointer to pre-counter string
181 0308 1 COUNTER_POST_STRING_LENGTH (not used for HLs) length of post-counter string
182 0309 1 COUNTER_POST_STRING_PTR (not used for HLs) pointer to post-counter string
183 0310 1 CAPTION_MAJOR_TYPE (not implemented) always MAJ_RUNOFF
184 0311 1 CAPTION_MINOR_TYPE specifies whether or not to show the counter
185 0312 1 CAPTION_CASE       code for the case rules to apply to the caption
186 0313 1 CAPTION_IS_CENTERED True if caption should be centered
187 0314 1 CAPTION_IS_FLUSH_RIGHT (not implemented) True if caption should be flush-right
188 0315 1 CAPTION_IS_RUN_IN   True if caption should be run-in with following text
189 0316 1 CAPTION_IS_BOLD     True if caption should be bolded
190 0317 1 CAPTION_IS_UNDERLINED True if caption should be underlined
191 0318 1 PUT INTO MEM_FILE  (not implemented) True if header should be output in .MEM file
192 0319 1 AUTOSUBTITLE       True if header should be picked up as an auto subtitle
193 0320 1 BRN_OPEN           True if header should be sent to the TOC
194 0321 1
195 0322 1
196 0323 1 IMPLICIT INPUTS:      None
197 0324 1
198 0325 1 IMPLICIT OUTPUTS:     None
199 0326 1
200 0327 1 ROUTINE VALUE:
201 0328 1 COMPLETION CODES:     None
202 0329 1
203 0330 1 SIDE EFFECTS:         None
204 0331 1 --
205 0332 1

```

```

206 0333 2 BEGIN
207 0334 2
208 0335 2 LOCAL
209 0336 2 GEN CHAR,
210 0337 2 HOLD_KHAR,
211 0338 2 HOLD_LST_SP,
212 0339 2 HOLD_MRA,
213 0340 2 HOLD_TSF,
214 0341 2 HOLD_LM,
215 0342 2 HOLD_WRD_PNTR,
216 0343 2 IRA_HOLD : VECTOR [10],
217 0344 2 SCA_HOLD : VECTOR [SCA_SIZE],
218 0345 2 SHOW_COUNTER;
219 0346 2
220 0347 2 !Assume header is numbered (counter will be shown).
221 0348 2 SHOW_COUNTER = TRUE;
222 0349 2
223 0350 2 !Skip spaces and tabs before the text.
224 0351 2 RSKIPS (IRA);
225 0352 2
226 0353 2 !See if there is enough room on the page.
227 0354 2 GTPC (.TEST_PAGE_AMOUNT);
228 0355 2
229 0356 2 !Now, force the paper to be positioned as it should.
230 0357 2 !The reason for forcing it, rather than allowing it to happen
231 0358 2 !the "normal" way, is that the user may have said something such
232 0359 2 !as ".NUMBER INDEX", which, by definition, does not take effect
233 0360 2 !in the middle of a page. By forcing the paper to be positioned,
234 0361 2 !.HEADER LEVELS that would be forced onto the next page
235 0362 2 !anyway can get influenced by commands such as just mentioned.
236 0363 2 OUTCRG ();
237 0364 2
238 0365 2 !Generate the specified number of lines before the header text.
239 0366 2 GCSKIP (.LINES_BEFORE);
240 0367 2
241 0368 2 !If at the top of any page, output the page number. This is being done
242 0369 2 !because of problems with the the design of RUNOFF. NEWPAG won't output
243 0370 2 !the page number until this header text forces a title to be generated,
244 0371 2 !which may be too late in this case.
245 0372 2 IF (.BRN_OPEN AND .PHAN_TOP_PAGE)
246 0373 2 THEN
247 0374 2 IF .PHAN_TOP_FIRST
248 0375 2 THEN
249 0376 2 %IF FLIP %THEN
250 0377 2 PUTTPG (PAGEN, FLIP$K_TOCPAG)
251 0378 2 ELSE
252 0379 2 PUTTPG (NPAGEN, FLIP$K_TOCPAG);
253 0380 2 %ELSE
254 0381 2 PUTTPG (PAGEN, -1)
255 0382 2 ELSE
256 0383 2 PUTTPG (NPAGEN, -1);
257 0384 2 %FI
258 0385 2 ! If creating a binary table of contents file, write out the counter and
259 0386 2 ! display descriptor.
260 0387 2 IF .BRN_OPEN
261 0388 2 THEN
262 0389 2 !User is generating a table of contents.

```



```

263 0390 2      PUTCNT (.COUNTER_MAJOR_TYPE,
264 0391 2          .COUNTER_MINOR_TYPE,
265 0392 2          .COUNTER_VALUE,           ! The actual number.
266 0393 2          .COUNTER_DISPLAY_CODE,    ! How to display the number.
267 0394 2          .COUNTER_PRE_STRING_LENGTH,
268 0395 2          .COUNTER_PRE_STRING_PTR,   ! String before the number.
269 0396 2          .COUNTER_POST_STRING_LENGTH,
270 0397 2          .COUNTER_POST_STRING_PTR  ! String after the number.
271 0398 2      );
272 0399
273 0400      !Save scanning information
274 0401      PUSH_SCA;      !Save the SAVED SCA bits.
275 0402      INCR I FROM 0 TO SCA_SIZE - 1 DO
276 0403          SCA_HOLD [I] = .SCA [I];
277 0404      !Save left margin; it might be used if centering and wrapping.
278 0405      HOLD_LM = .SCA_LM;
279 0406      !Save IRA and RHAR.
280 0407      INCR I FROM 0 TO 10 - 1 DO
281 0408          IRA_HOLD [I] = .IRA [I];
282 0409      HOLD_KHAR = .KHAR;
283 0410
284 0411      !+ If either (1) this head will become an autosubtitle or (2) user is creating a
285 0412      !.BRN file, then we must scan the text twice. The first time we scan it at full
286 0413      !width, 150 characters, for subtitle and/or TOC. If the subtitle actually runs
287 0414      !wider than the current right margin, however, we truncate it and append "...".
288 0415      !-
289 0416      IF .AUTOSUBTITLE OR .BRN_OPEN
290 0417      THEN
291 0418          BEGIN
292 0419
293 0420          SCA_PRESCAN = FALSE;           !A ';' does NOT terminate this command.
294 0421          SCA_RSKIPS = TRUE;           !Ignore multiple spaces and tabs.
295 0422          SCA_FILL = FALSE;
296 0423          SCA_JUSTIFY = FALSE;
297 0424          !Set right margin big to catch long headers.
298 0425          SCA_LM = 0;
299 0426          SCA_RM = 150;
300 0427          SCA_DO_IND = FALSE;         !Ignore indexing for subtitle/TOC scan.
301 0428
302 0429          !Make a subtitle out of this header, if that's what the user desires.
303 0430          !The routine TITLES, which normally processes
304 0431          !titles/subtitles, contains the necessary logic.
305 0432          IF .AUTOSUBTITLE
306 0433          THEN
307 0434              !Collect header text in subtitle buffer
308 0435              BEGIN
309 0436                  LOCAL
310 0437                  HOLD_NBITS;
311 0438
312 0439              !Set up case rules for the header text.
313 0440              SETCAS (.CAPTION_CASE);
314 0441
315 0442              !Use TITLES to get the subtitle.
316 0443              TITLES (-1);
317 0444
318 0445              !Temporarily switch back to the subtitle TSF
319 0446              HOLD_TSF = .TSF;

```

```

: 320      0447 4      TSF = SBTTSF;
: 321      0448 4
: 322      0449 4      !Carry over underlining/bolding, etc, as specified.
: 323      0450 4      TSF_NBITS = .TSF_NBITS AND .HLC_CO_NBITS;
: 324      0451 4
: 325      0452 4      !Return to the actual TSF
: 326      0453 4      TSF = .HOLD_TSF;
: 327      0454 4
: 328      0455 3      END;
: 329      0456 3
: 330      0457 3      IF .brn_open
: 331      0458 3      THEN
: 332      0459 4      BEGIN
: 333      0460 4      ** -----
: 334      0461 4      ** Is this whole trip necessary? Looks like it does nothing.
: 335      0462 4      !Restore IRA and KHAR.
: 336      0463 4      INCR I FROM 0 TO 10 - 1 DO
: 337      0464 4      IRA [I] = .IRA_HOLD [I];
: 338      0465 4
: 339      0466 4      INCR I FROM 0 TO SCA_SIZE - 1 DO
: 340      0467 4      SCA [I] = .SCA_HOLD [I];
: 341      0468 4
: 342      0469 4      POP_SCA;      !Restore the SAVED SCA bits.
: 343      0470 4      !Save scanning information for another scan.
: 344      0471 4      PUSH_SCA;      !Save the SAVED SCA bits.
: 345      0472 4
: 346      0473 4      INCR I FROM 0 TO SCA_SIZE - 1 DO
: 347      0474 4      SCA_HOLD [I] = .SCA [I];
: 348      0475 4      !Save IRA and KHAR.
: 349      0476 4      INCR I FROM 0 TO 10 - 1 DO
: 350      0477 4      IRA_HOLD [I] = .IRA [I];
: 351      0478 4      ** -----
: 352      0479 4      !Going to TOC, may or may not be an auto-subtitle.
: 353      0480 4
: 354      0481 4      sca_prescan = false;      !A ';' does NOT terminate this command.
: 355      0482 4      sca_rskips = true;      !Ignore multiple spaces and tabs.
: 356      0483 4      sca_fill = false;
: 357      0484 4      sca_justify = false;
: 358      0485 4      sca_lm = 0;      !Set right margin big to catch long headers.
: 359      0486 4      sca_rm = 150;
: 360      0487 4      sca_do_ind = false;      !Ignore indexing for subtitle/TOC scan.
: 361      0488 4      sca_fc_case = true;
: 362      0489 4      sca_fc = true;
: 363      0490 4      khar = .hold_khar;
: 364      0491 4
: 365      0492 4      !Switch to the Footnote TSF and MRA (which are not otherwise used in headers) to
: 366      0493 4      !collect the header information for the TOC.
: 367      0494 4
: 368      0495 4      hold_mra = .mra;
: 369      0496 4      mra = foomra;
: 370      0497 4      hold_tsf = .tsf;
: 371      0498 4      tsf = footsf;
: 372      0499 4
: 373      0500 4      !Before initializing the text descriptors, it is necessary to explicitly
: 374      0501 4      !reset the maximum length of the footnote MRA. It is clobbered if any
: 375      0502 4      !footnotes have been processed so far. See the comments in FNONLY around
: 376      0503 4      !line 1545 for the detailed justification.

```



```

377 0504 4      fs_maxsize (mra) = s_fmra;
378 0505 4
379 0506 4      !Now initialize the text descriptors.
380 0507 4      fs_init (mra);
381 0508 4      INCR i FROM 0 TO tsf_size - 1 DO
382 0509 4          tsf [.i] = 0;
383 0510 4
384 0511 4      !Set up bolding and underlining, if requested.
385 0512 5      IF (.caption_is_bold AND .sca_do_bld)
386 0513 4      THEN
387 0514 5          BEGIN
388 0515 5              sca_bld = true;
389 0516 5              sca_wrd_c_bld = true;
390 0517 4              END;
391 0518 4
392 0519 5      IF (.caption_is_underlined AND .sca_do_und)
393 0520 4      THEN
394 0521 5          BEGIN
395 0522 5              sca_und = true;
396 0523 5              sca_wrd_c_und = true;
397 0524 4              END;
398 0525 4
399 0526 4      ! Set up case rules for the header.
400 0527 4      setcas (.caption_case);
401 0528 4
402 0529 4      ! Scan 150-wide into footnote MRA.
403 0530 4      scant ();
404 0531 4      endwrd (false, false, false);
405 0532 4
406 0533 4      ! Write header text to .BRN file.
407 0534 4
408 0535 4      ** Needed for FLIP Level 1 support. The result is that PUTTXT is not called
409 0536 4      for .HE, .HF, .HT commands if /DEVICE=FLIP was specified.
410 0537 4
411 0538 4      !%IF FLIP %THEN
412 0539 4          IF (.gca_op_dev NEQ op_dev_flip)
413 0540 4              OR
414 0541 4              (.caption_minor_type LEQ min_hl_txt_u)
415 0542 4          THEN
416 0543 4      !%FI
417 0544 4      **
418 0545 4          puttxt (.fs_length(foomra),
419 0546 4              .fs_start(foomra),
420 0547 4              .caption_major_type,
421 0548 4              .caption_minor_type);
422 0549 4
423 0550 4      !Switch TSF and MRA back.
424 0551 4      mra = .hold_mra;
425 0552 4      tsf = .hold_tsf;
426 0553 4      END;
427 0554 4
428 0555 4      !Restore IRA and KHAR.
429 0556 4      INCR i FROM 0 TO 10 - 1 DO
430 0557 4          ira [.i] = .ira_hold [.i];
431 0558 4      khar = .hold_khar;
432 0559 4
433 0560 2      END;

```

!End of TOC-only processing.

!End of subtitle-or-TOC processing

```

434 0561 2
435 0562 INCR I FROM 0 TO SCA_SIZE - 1 DO
436 0563     SCA [I] = .SCA_HOLD [I];
437 0564 POP_SCA; !Restore the SAVED SCA bits.
438 0565 SCA_FILL = TRUE; !Fill the header even if not filling text.
439 0566 SCA_PRESCAN = FALSE; !A ';' does NOT terminate this command.
440 0567 SCA_RSKIPS = TRUE; !Ignore multiple spaces and tabs.
441 0568
442 0569 !
443 0570 !Set up bolding and underlining, if requested.
444 0571 IF (.caption_is_bold AND .sca_do_bld)
445 0572 THEN
446 0573     BEGIN
447 0574         sca_bld = true;
448 0575         sca_wrd_c_bld = true;
449 0576     END;
450 0577 !
451 0578 IF (.caption_is_underlined AND .sca_do_und)
452 0579 THEN
453 0580     BEGIN
454 0581         sca_und = true;
455 0582         sca_wrd_c_und = true;
456 0583     END;
457 0584 !
458 0585 ! Generate the number for the header title if not turned off. Note:
459 0586 ! the following line depends on the values of the literals in TOCRTY.
460 0587 !
461 0588 show_counter = NOT ((.caption_minor_type MOD 3) EQL 0);
462 0589 ! If centering the header, pull in the margins so that the caption
463 0590 ! looks more deliberately centered.
464 0591 !
465 0592 IF .caption_is_centered
466 0593 THEN
467 0594     BEGIN
468 0595         sca_lm = .sca_lm + 3;
469 0596         sca_rm = .sca_rm - 3;
470 0597     END;
471 0598 !
472 0599 IF .show_counter
473 0600 THEN
474 0601     ! User didn't turn off the numbering, so generate the header counter.
475 0602     BEGIN
476 0603         ! Generate the counter in using the case rules for the caption.
477 0604         !
478 0605         outctr (.counter_minor_type, .caption_case);
479 0606         !
480 0607         ! Put the counter into the output buffer.
481 0608         !
482 0609         fs_next (fs01) = .fs_start (fs01);
483 0610         INCR i FROM 1 TO .fs_length (fs01) DO
484 0611             BEGIN
485 0612                 LOCAL
486 0613                 temp_char;
487 0614                 fs_rchar (fs01, temp_char);
488 0615                 endchr (.temp_char);
489 0616             END;
490 0617         END;

```



```

: 491      0618      3      ! End the string so the spaces_after will not get underlined (if
: 492      0619      3      ! in effect)
: 493      0620      3      endwrđ (false, false, false);
: 494      0621      3
: 495      0622      3      ! Insert spaces after the counter if user didn't say BREAK or BETWEEN.
: 496      0623      3      ! Do not put out more than 75 spaces regardless of what the user said.
: 497      0624      3
: 498      0625      4      IF NOT (.break_before_caption OR (.lines_between GTR 0))
: 499      0626      3      THEN
: 500      0627      4      BEGIN
: 501      0628      4      LOCAL
: 502      0629      4      sca_hold_c_bldun,
: 503      0630      4      sca_hold_ac_bln;
: 504      0631      4      ! ENDCHR carries over underlining rules even for spaces.
: 505      0632      4      ! We must turn off these bits before we add the extra spaces.
: 506      0633      4
: 507      0634      4      sca_hold_c_bldun = .sca_wrd_c_bldun;
: 508      0635      4      sca_hold_ac_bln = .sca_wrd_ac_bln;
: 509      0636      4      INCR i FROM 1 TO (MIN (.counter_spaces_after, 75)) DO
: 510      0637      3      BEGIN
: 511      0638      3      sca_wrd_c_bldun = 0;
: 512      0639      3      sca_wrd_ac_bln = 0;
: 513      0640      3      endchr '%( ');
: 514      0641      4      END;
: 515      0642      4
: 516      0643      4      ! Restore the SCA bits.
: 517      0644      4      sca_wrd_c_bldun = .sca_hold_c_bldun;
: 518      0645      4      sca_wrd_ac_bln = .sca_hold_ac_bln;
: 519      0646      4      END;
: 520      0647      3
: 521      0648      3      ! And now end this 'word'.
: 522      0649      3
: 523      0650      3      endwrđ (false,false,false);
: 524      0651      3
: 525      0652      3      ! If the user wants a break before the caption, we must
: 526      0653      3      ! make any adjustments if not flush_left.
: 527      0654      3
: 528      0655      3      IF .caption_is_centered OR .caption_is_flush_right
: 529      0656      3      THEN
: 530      0657      4      BEGIN
: 531      0658      3      IF .break_before_caption OR (.lines_between GTR 0)
: 532      0659      4      THEN
: 533      0660      3      BEGIN
: 534      0661      3      tsf_adjust =
: 535      0662      6      (IF .caption_is_centered      !Center the counter.
: 536      0663      6      THEN (.sca_rm - (.tsf_ext_hl))/2
: 537      0664      6      ELSE      !Force the counter right.
: 538      0665      3      .sca_rm - .tsf_ext_hl);
: 539      0666      3      END
: 540      0667      4      ELSE
: 541      0668      3      BEGIN
: 542      0669      3      ! No break to be done so we must set the left margin so
: 543      0670      3      ! wrapping will left justify on the caption left margin.
: 544      0671      3      hold_lm = .tsf_ext_hl; !Remember for use after SCA is restored.
: 545      0672      3      sca_lm = .tsf_ext_hl;
: 546      0673      4      END;
: 547      0674      4      END

```

```

548 0675 4
549 0676 4
550 0677 4
551 0678 4
552 0679 4
553 0680 4
554 0681 4
555 0682 4
556 0683 4
557 0684 4
558 0685 4
559 0686 4
560 0687 4
561 0688 4
562 0689 4
563 0690 4
564 0691 4
565 0692 4
566 0693 4
567 0694 4
568 0695 4
569 0696 4
570 0697 4
571 0698 4
572 0699 4
573 0700 4
574 0701 4
575 0702 4
576 0703 4
577 0704 4
578 0705 4
579 0706 4
580 0707 4
581 0708 4
582 0709 4
583 0710 4
584 0711 4
585 0712 4
586 0713 4
587 0714 4
588 0715 4
589 0716 4
590 0717 4
591 0718 4
592 0719 4
593 0720 4
594 0721 4
595 0722 4
596 0723 4
597 0724 4
598 0725 4
599 0726 4
600 0727 4
601 0728 4
602 0729 4
603 0730 4
604 0731 4

+
The header is flush-left. If the caption is to immediately follow, set the
left margin so that following text will wrap properly.
-
ELSE
    If we aren't doing a break after the counter, we must pull in
    the left margin to prevent writing over the counter.
    IF NOT (.break_before_caption OR (.lines_between GTR 0))
    THEN
        Set left margin beyond the counter so if the caption wraps,
        it will be nicely justified with itself.
        sca_lm = .tsf_ext_hl;
    END
    !End of code to generate header counter.
ELSE
    If we are not generating a number, then the first character
    scanned should be the first character in this MRA.
    sca_fc = true;
+
If the header is other than flush-left and user asked for break or
some lines between, then we have already computed amount to shift it;
we now put it out on a line by itself.
-
gca_line_pend = 1;
!Until we throw the header, a line is pending.
IF (.break_before_caption) OR (.lines_between GTR 0)
THEN
    BEGIN
        outnj ();
        ! Put out the counter.
        gcskip (.lines_between);
        ! Skip the number of lines requested.
    END;
    ! Remember number of characters generated for use later.
    gen_char = .tsf_int_hl;
    ! Set up case rules for the heading.
    setcas (.caption_case);
    ! Tell SCANT that the first character of the header is the first
    ! character of a word. (ENDCHR turned this stuff off before.)
    sca_fc_case = true;
    scant ();
    !Go get the caption.
    ! SCA_WRD CPEND equals rintes IFF there was a trailing space/tab
    ! after the text. In such a case ENDWRD has already been called.
    ! Calling it again would have the effect of forcing an additional
    ! space out into TSF/MRA.
    IF .sca_wrd_cpend NEQ rintes
    THEN
        endwrđ (false, false, false)
    ELSE
        IF .sca_wrd_lst_und EQL 0

```



```

: 605      0732 2      AND      ! This fixes null-text-on-
: 606      0733 2      .sca_wrd_lst_sp GTR 0      ! run-in-header bug.
: 607      0734 2      THEN
: 608      0735 2      ! Chop off trailing spaces/tabs. When doing so, also back up
: 609      0736 2      ! intra-line pointer and counter appropriately. If justification
: 610      0737 2      ! was in effect, also cancel the justification mark that got writ-
: 611      0738 2      ! ten onto the MRA.
: 612      0739 2      ! Note that trailing spaces that are underlined are not discarded.
: 613      0740 2      BEGIN
: 614      0741 2      LOCAL
: 615      0742 2      chars_to_drop;
: 616      0743 2      chars_to_drop = .sca_wrd_lst_sp +
: 617      0744 2      (-IF .sca_justify
: 618      0745 2      THEN 3
: 619      0746 2      ELSE 0
: 620      0747 2      );
: 621      0748 2      fs_length (mra) = .fs_length (mra) - .chars_to_drop;
: 622      0749 2      fs_next (mra) = ch$plus (.fs_next (mra), -.chars_to_drop);
: 623      0750 2      sca_wrd_lst_sp = 0;
: 624      0751 2      END;
: 625      0752 2
: 626      0753 2      ! Restore previous scanner rules and set standard rules. Usually, it
: 627      0754 2      ! suffices to restore the previous scanner rules, and that's all. That
: 628      0755 2      ! works because after ENDWRD is called there is nothing left in the SCA
: 629      0756 2      ! that needs to be remembered. Simply restoring the SCA is then
: 630      0757 2      ! equivalent to a type of block structure. However, there is one case
: 631      0758 2      ! when the pointer to the NEXT word needs to be carried over; that is
: 632      0759 2      ! when the text of the header is too long for the current line,
: 633      0760 2      ! and it's a runin header. In that case, if the pointer is not carried
: 634      0761 2      ! over, generating the '-' after the text will not work, and will
: 635      0762 2      ! actually cause an internal logic error (RNFILE) when ENDWRD eventually
: 636      0763 2      ! gets called by some other routine, later.
: 637      0764 2      hold_wrd_pntr = .sca_wrd_pntr;      !Remember start of next word.
: 638      0765 2      hold_lst_sp = .sca_wrd_lst_sp;      !Remember last-space info.
: 639      0766 2      INCR i FROM 0 TO sca_size - 1 DO
: 640      0767 2      sca [.i] = .sca_hold [.i];
: 641      0768 2      pop_sca;      !Restore the SAVED SCA bits again.
: 642      0769 2      sca_wrd_pntr = .hold_wrd_pntr;      !Restore start of next word.
: 643      0770 2      sca_wrd_lst_sp = .hold_lst_sp;      !Restore last-space info.
: 644      0771 2
: 645      0772 2      ! For FLIP, tell LOHORI to generate a TOCHL record (for .HL's only
: 646      0773 2      ! -- not for .HE, .HF, .HT commands).
: 647      0774 2      ! yes for now.
: 648      0775 2      %IF FLIP %THEN
: 649      0776 2      IF .brn_open
: 650      0777 2      !!
: 651      0778 2      !! AND
: 652      0779 2      !! (.caption_minor_type LEQ min_hl_txt_u)
: 653      0780 2      THEN
: 654      0781 2      sca_header = true;
: 655      0782 2      %FI
: 656      0783 2      ! Differentiate between headers that are on a single line, and
: 657      0784 2      ! those for which a '-' has to be generated with following text
: 658      0785 2      ! running on.
: 659      0786 2      IF .caption_is_run_in
: 660      0787 2      THEN
: 661      0788 2      BEGIN

```

U  
U  
U  
U  
U

%IF  
!!  
!!  
%FI

FLIP %THEN  
IF .brn\_open  
AND  
(.caption\_minor\_type LEQ min\_hl\_txt\_u)  
THEN  
sca\_header = true;  
%FI  
BEGIN



```

662 0789 3      IF .gen_char NEQ .tsf_int_hl
663 0790 3      THEN
664 0791 3      ! There was some text after the counter, so generate the '- '.
665 0792 4      BEGIN
666 0793 4      endchr (%C' ');
667 0794 4      endchr (%C'-');
668 0795 4      endwrd (true, false, false);
669 0796 4      END
670 0797 3      END
671 0798 2      ELSE
672 0799 2      ! Not a 'run-on' header.
673 0800 3      BEGIN
674 0801 3      ! This section basically outputs the last line of the header. This
675 0802 3      ! may also be the first (if only one line long). What must happen here
676 0803 3      ! is if the header is flush-left, the last line (if different from the
677 0804 3      ! first, must start at the caption left margin. The same goes for cen-
678 0805 3      ! tered captions if nobreak is in effect and if the caption is so long
679 0806 3      ! that it wraps. Now if it doesn't wrap, then this section will output
680 0807 3      ! the whole counter and caption.
681 0808 3      ! By using GCA_LINE_PEND, we may determine if this is the first line output.
682 0809 3      ! If a line has already gone out, then SCANT has already adjusted the left
683 0810 3      ! margin and no TSF_adjust is needed.
684 0811 3      !
685 0812 3      ! If the header is other than flush-left, compute amount to shift it.
686 0813 3      ! If user asked for a BREAK or had some LINES_BETWEEN, then the shift
687 0814 3      ! for the counter has already been taken care of and this section
688 0815 3      ! is only for the caption, otherwise the shift is for the whole header.
689 0816 3      IF .caption_is_centered OR .caption_is_flush_right
690 0817 3      THEN
691 0818 3      IF .gca_line_pend      !NO line thrown yet.
692 0819 3      THEN
693 0820 3      tsf_adjust =
694 0821 4      (IF .caption_is_centered      !Center the counter/and/or caption.
695 0822 5      THEN ((.sca_rm - .tsf_ext_hl)/2 - 2)
696 0823 4      ELSE      !Force the counter/caption right.
697 0824 4      .sca_rm - .tsf_ext_hl)
698 0825 3      ELSE
699 0826 4      IF (.break_before_caption) OR (.lines_between GTR 0)
700 0827 3      THEN
701 0828 3      tsf_adjust =
702 0829 4      (IF .caption_is_centered      !Center the counter/and/or caption.
703 0830 5      THEN ((.sca_rm - .tsf_ext_hl)/2 - 2)      !This is centered.
704 0831 4      ELSE      !Force the counter/caption right.
705 0832 3      .sca_rm - .tsf_ext_hl);
706 0833 3
707 0834 3      outnj ();      !Force out the caption.
708 0835 3
709 0836 3      gcskip (.lines_after);
710 0837 3
711 0838 3      sca_sect_empty = true;      !This section is empty now.
712 0839 2      END;
713 0840 2
714 0841 2      !Set proper case conversion for remainder of section.
715 0842 2      setcas (.gca_case);
716 0843 2
717 0844 1      END;      !End of OUTHDR

```



|               |  |  |  | .TITLE | OUTHDR 0/P module for processing HEADER: figure |
|---------------|--|--|--|--------|-------------------------------------------------|
|               |  |  |  | .IDENT | \V04-000\table                                  |
|               |  |  |  | .PSECT | \$OWNS\$,NOEXE,2                                |
| 00000 PP_SCA: |  |  |  | .BLKB  | 48                                              |
|               |  |  |  | .EXTRN | RINTES, S FMRA, FOOMRA                          |
|               |  |  |  | .EXTRN | FOOTSF, FS01, ECC                               |
|               |  |  |  | .EXTRN | GCA, HLC, HLDSP                                 |
|               |  |  |  | .EXTRN | HLLIST, IRA, MRA                                |
|               |  |  |  | .EXTRN | NPAGEN, PAGEN, PHAN                             |
|               |  |  |  | .EXTRN | SBTMRA, SBTTSF, SCA                             |
|               |  |  |  | .EXTRN | TSF, KHAR, ENDCHR                               |
|               |  |  |  | .EXTRN | ENDWRD, GCSKIP, GTPC                            |
|               |  |  |  | .EXTRN | OUTNJ, OUTCRG, PACSEC                           |
|               |  |  |  | .EXTRN | PACXXX, PUTTPG, PUTCNT                          |
|               |  |  |  | .EXTRN | PUTTXT, SCANT, SETCAS                           |
|               |  |  |  | .EXTRN | RSKIPS, TITLES                                  |
|               |  |  |  | .PSECT | \$CODE\$,NOWRT,2                                |
| OFFC 00000    |  |  |  | .ENTRY | OUTHDR, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-      |
|               |  |  |  |        | R11                                             |
|               |  |  |  | MOVAB  | TSF, R11                                        |
|               |  |  |  | MOVAB  | PP_SCA, R10                                     |
|               |  |  |  | MOVAB  | SCA+120, R9                                     |
|               |  |  |  | MOVAB  | -424(SP), SP                                    |
|               |  |  |  | MOVL   | #1, SHOW_COUNTER                                |
|               |  |  |  | PUSHAB | IRA                                             |
|               |  |  |  | CALLS  | #1, RSKIPS                                      |
|               |  |  |  | PUSHL  | TEST PAGE_AMOUNT                                |
|               |  |  |  | CALLS  | #1, GTPC                                        |
|               |  |  |  | CALLS  | #0, OUTCRG                                      |
|               |  |  |  | PUSHL  | LINES BEFORE                                    |
|               |  |  |  | CALLS  | #1, GCSKIP                                      |
|               |  |  |  | BLBC   | BRN OPEN, 4\$                                   |
|               |  |  |  | BLBC   | PHAN, 3\$                                       |
|               |  |  |  | BLBC   | PHAN+24, 1\$                                    |
|               |  |  |  | MNEGL  | #1, -(SP)                                       |
|               |  |  |  | PUSHAB | PAGEN                                           |
|               |  |  |  | BRB    | 2\$                                             |
|               |  |  |  | MNEGL  | #1, -(SP)                                       |
|               |  |  |  | PUSHAB | NPAGEN                                          |
|               |  |  |  | CALLS  | #2, PUTTPG                                      |
|               |  |  |  | BLBC   | BRN OPEN, 4\$                                   |
|               |  |  |  | MOVQ   | COUNTER_POST_STRING_LENGTH, -(SP)               |
|               |  |  |  | MOVQ   | COUNTER_PRE_STRING_LENGTH, -(SP)                |
|               |  |  |  | MOVQ   | COUNTER_VALUE, -(SP)                            |
|               |  |  |  | MOVQ   | COUNTER_MAJOR_TYPE, -(SP)                       |
|               |  |  |  | CALLS  | #8, PUTCNT                                      |
|               |  |  |  | MOVL   | @SCA+100, PP_SCA                                |
|               |  |  |  | MOVL   | @SCA+104, PP_SCA+4                              |
|               |  |  |  | MOVL   | @SCA+108, PP_SCA+8                              |
|               |  |  |  | MOVL   | @SCA+112, PP_SCA+12                             |

|    |               |           |               |      |       |       |        |                       |                       |      |  |
|----|---------------|-----------|---------------|------|-------|-------|--------|-----------------------|-----------------------|------|--|
|    | 10            | AA        | FC            | B9   | D0    | 000A2 | MOVL   | @SCA+116, PP_SCA+16   | :                     |      |  |
|    | 14            | AA        | 00            | B9   | D0    | 000A7 | MOVL   | @SCA+120, PP_SCA+20   | :                     |      |  |
|    | 18            | AA        | 04            | B9   | D0    | 000AC | MOVL   | @SCA+124, PP_SCA+24   | :                     |      |  |
|    | 1C            | AA        | 08            | B9   | D0    | 000B1 | MOVL   | @SCA+128, PP_SCA+28   | :                     |      |  |
|    | 20            | AA        | 0C            | B9   | D0    | 000B6 | MOVL   | @SCA+132, PP_SCA+32   | :                     |      |  |
|    | 24            | AA        | 10            | B9   | D0    | 000BB | MOVL   | @SCA+136, PP_SCA+36   | :                     |      |  |
|    | 28            | AA        | 14            | B9   | D0    | 000C0 | MOVL   | @SCA+140, PP_SCA+40   | :                     |      |  |
|    | 2C            | AA        | 18            | B9   | D0    | 000C5 | MOVL   | @SCA+144, PP_SCA+44   | :                     |      |  |
|    |               |           |               | 50   | D4    | 000CA | CLRL   | I                     | :                     | 0402 |  |
| F2 | 6E40          | 88        | A940          | D0   | 000CC | 5\$:  | MOVL   | SCA[I], SCA_HOLD[I]   | :                     | 0403 |  |
|    | 50            | 0000005F  | 8F            | F3   | 000D2 |       | AOBLEQ | #95, I, 5\$           | :                     |      |  |
|    | 58            | FC        | B9            | D0   | 000DA |       | MOVL   | @SCA+116, HOLD_LM     | :                     | 0405 |  |
|    |               |           | 50            | D4   | 000DE |       | CLRL   | I                     | :                     | 0407 |  |
| F2 | D8            | AD40      | 00000000GEF40 | D0   | 000E0 | 6\$:  | MOVL   | IRA-4[I], IRA_HOLD[I] | :                     | 0408 |  |
|    | 50            |           | 09            | F3   | 000EA |       | AOBLEQ | #9, I, 6\$            | :                     |      |  |
|    | 55            | 00000000G | EF            | D0   | 000EE |       | MOVL   | KHAR, HOLD KHAR       | :                     | 0409 |  |
|    | 07            |           | 58            | AC   | E8    | 000F5 | BLBS   | AUTOSUBTITLE, 7\$     | :                     | 0416 |  |
|    | 03            |           | 5C            | AC   | E8    | 000F9 | BLBS   | BRN_OPEN, 7\$         | :                     |      |  |
|    |               |           | 01E6          | 31   | 000FD |       | BRW    | 19\$                  | :                     |      |  |
|    | 54            | A9        | 34            | A9   | D4    | 00100 | 7\$:   | CLRL                  | SCA+172               | 0420 |  |
|    |               |           | 01            | D0   | 00103 |       | MOVL   | #1, SCA+204           | :                     | 0421 |  |
|    |               |           | F0            | B9   | D4    | 00107 | CLRL   | @SCA+104              | :                     | 0422 |  |
|    |               |           | EC            | B9   | D4    | 0010A | CLRL   | @SCA+100              | :                     | 0423 |  |
|    |               |           | FC            | B9   | D4    | 0010D | CLRL   | @SCA+116              | :                     | 0425 |  |
|    | 00            | B9        | 96            | 8F   | 9A    | 00110 | MOVZBL | #150, @SCA+120        | :                     | 0426 |  |
|    | 30            | A9        |               | 08   | 8A    | 00115 | BICB2  | #8, SCA+168           | :                     | 0427 |  |
|    |               | 2F        | 58            | AC   | E9    | 00119 | BLBC   | AUTOSUBTITLE, 8\$     | :                     | 0432 |  |
|    |               |           | 3C            | AC   | DD    | 0011D | PUSHL  | CAPTION_CASE          | :                     | 0440 |  |
|    | 00000000G     | EF        |               | 01   | FB    | 00120 | CALLS  | #1, SETCAS            | :                     |      |  |
|    |               | 7E        |               | 01   | CE    | 00127 | MNEGL  | #1, -(SP)             | :                     | 0443 |  |
|    | 00000000G     | EF        |               | 01   | FB    | 0012A | CALLS  | #1, TITLES            | :                     |      |  |
|    |               | 53        |               | 6B   | D0    | 00131 | MOVL   | TSF, HOLD TSF         | :                     | 0446 |  |
|    |               | 6B        | 00000000G     | EF   | 9E    | 00134 | MOVAB  | SBTTSF, TSF           | :                     | 0447 |  |
|    |               | 50        |               | 6B   | D0    | 0013B | MOVL   | TSF, R0               | :                     |      |  |
|    |               | 51        | 00000000G     | EF   | D2    | 0013E | MCOML  | HLC+12, R1            | :                     | 0450 |  |
|    | 08            | A0        |               | 51   | CA    | 00145 | BICL2  | R1, 8(R0)             | :                     |      |  |
|    |               | 6B        |               | 53   | D0    | 00149 | MOVL   | HOLD TSF, TSF         | :                     | 0453 |  |
|    |               | 03        |               | 5C   | AC    | E8    | 0014C  | 8\$:                  | 0457                  |      |  |
|    |               |           | 017C          | 31   | 00150 |       | BRW    | 17\$                  | :                     |      |  |
|    |               |           | 50            | D4   | 00153 | 9\$:  | CLRL   | I                     | :                     | 0463 |  |
| F2 | 00000000GEF40 |           | D8            | AD40 | D0    | 00155 | 10\$:  | MOVL                  | IRA_HOLD[I], IRA-4[I] | 0464 |  |
|    | 50            |           | 09            | F3   | 0015F |       | AOBLEQ | #9, I, 10\$           | :                     |      |  |
|    |               |           | 50            | D4   | 00163 |       | CLRL   | I                     | :                     | 0466 |  |
| F2 | 88            | A940      | 6E40          | D0   | 00165 | 11\$: | MOVL   | SCA_HOLD[I], SCA[I]   | :                     | 0467 |  |
|    |               | 50        | 0000005F      | 8F   | F3    | 0016B | AOBLEQ | #95, I, 11\$          | :                     |      |  |
|    | EC            | B9        |               | 6A   | D0    | 00173 | MOVL   | PP_SCA, @SCA+100      | :                     |      |  |
|    | F0            | B9        |               | 04   | AA    | D0    | 00177  | MOVL                  | PP_SCA+4, @SCA+104    | :    |  |
|    | F4            | B9        |               | 08   | AA    | D0    | 0017C  | MOVL                  | PP_SCA+8, @SCA+108    | :    |  |
|    | F8            | B9        |               | 0C   | AA    | D0    | 00181  | MOVL                  | PP_SCA+12, @SCA+112   | :    |  |
|    | FC            | B9        |               | 10   | AA    | D0    | 00186  | MOVL                  | PP_SCA+16, @SCA+116   | :    |  |
|    | 00            | B9        |               | 14   | AA    | D0    | 0018B  | MOVL                  | PP_SCA+20, @SCA+120   | :    |  |
|    | 04            | B9        |               | 18   | AA    | D0    | 00190  | MOVL                  | PP_SCA+24, @SCA+124   | :    |  |
|    | 08            | B9        |               | 1C   | AA    | D0    | 00195  | MOVL                  | PP_SCA+28, @SCA+128   | :    |  |
|    | 0C            | B9        |               | 20   | AA    | D0    | 0019A  | MOVL                  | PP_SCA+32, @SCA+132   | :    |  |
|    | 10            | B9        |               | 24   | AA    | D0    | 0019F  | MOVL                  | PP_SCA+36, @SCA+136   | :    |  |
|    | 14            | B9        |               | 28   | AA    | D0    | 001A4  | MOVL                  | PP_SCA+40, @SCA+140   | :    |  |
|    | 18            | B9        |               | 2C   | AA    | D0    | 001A9  | MOVL                  | PP_SCA+44, @SCA+144   | :    |  |



|    |           |      |             |      |    |       |             |                             |        |
|----|-----------|------|-------------|------|----|-------|-------------|-----------------------------|--------|
|    | 04        | 6A   | EC          | B9   | D0 | 001AE | MOVL        | @SCA+100, PP-SCA            | : 0469 |
|    | 08        | AA   | F0          | B9   | D0 | 001B2 | MOVL        | @SCA+104, PP-SCA+4          | :      |
|    | 0C        | AA   | F4          | B9   | D0 | 001B7 | MOVL        | @SCA+108, PP-SCA+8          | :      |
|    | 10        | AA   | F8          | B9   | D0 | 001BC | MOVL        | @SCA+112, PP-SCA+12         | :      |
|    | 14        | AA   | FC          | B9   | D0 | 001C1 | MOVL        | @SCA+116, PP-SCA+16         | :      |
|    | 18        | AA   | 00          | B9   | D0 | 001C6 | MOVL        | @SCA+120, PP-SCA+20         | :      |
|    | 1C        | AA   | 04          | B9   | D0 | 001CB | MOVL        | @SCA+124, PP-SCA+24         | :      |
|    | 20        | AA   | 08          | B9   | D0 | 001D0 | MOVL        | @SCA+128, PP-SCA+28         | :      |
|    | 24        | AA   | 0C          | B9   | D0 | 001D5 | MOVL        | @SCA+132, PP-SCA+32         | :      |
|    | 28        | AA   | 10          | B9   | D0 | 001DA | MOVL        | @SCA+136, PP-SCA+36         | :      |
|    | 2C        | AA   | 14          | B9   | D0 | 001DF | MOVL        | @SCA+140, PP-SCA+40         | :      |
|    |           |      | 18          | B9   | D0 | 001E4 | MOVL        | @SCA+144, PP-SCA+44         | :      |
|    |           |      |             |      | D4 | 001E9 | CLRL        | I                           | : 0473 |
| F2 |           | 6E40 | 88          | A940 | D0 | 001EB | 12\$: MOVL  | SCA[I], SCA_HOLD[I]         | : 0474 |
|    |           | 50   | 0000005F    | 8F   | F3 | 001F1 | AOBLEQ      | #95, I, 12\$                | :      |
|    |           |      |             |      | D4 | 001F9 | CLRL        | I                           | : 0476 |
| F2 | D8        | AD40 | 00000000GEF | 40   | D0 | 001FB | 13\$: MOVL  | IRA-4[I], IRA_HOLD[I]       | : 0477 |
|    |           | 50   |             | 09   | F3 | 00205 | AOBLEQ      | #9, I, 13\$                 | :      |
|    |           |      | 34          | A9   | D4 | 00209 | CLRL        | SCA+172                     | : 0481 |
|    | 54        | A9   |             | 01   | D0 | 0020C | MOVL        | #1, SCA+204                 | : 0482 |
|    |           |      | F0          | B9   | D4 | 00210 | CLRL        | @SCA+104                    | : 0483 |
|    |           |      | EC          | B9   | D4 | 00213 | CLRL        | @SCA+100                    | : 0484 |
|    |           |      | FC          | B9   | D4 | 00216 | CLRL        | @SCA+116                    | : 0485 |
|    | 00        | B9   | 96          | 8F   | 9A | 00219 | MOVZBL      | #150, @SCA+120              | : 0486 |
|    | 30        | A9   |             | 08   | 8A | 0021E | BICB2       | #8, SCA+168                 | : 0487 |
|    | 58        | A9   |             | 01   | D0 | 00222 | MOVL        | #1, SCA+208                 | : 0488 |
|    | 1C        | A9   |             | 01   | D0 | 00226 | MOVL        | #1, SCA+148                 | : 0489 |
|    | 00000000G | EF   |             | 55   | D0 | 0022A | MOVL        | HOLD_KHAR, KHAR             | : 0490 |
|    |           | 54   | 00000000G   | EF   | D0 | 00231 | MOVL        | MRA, -HOLD MRA              | : 0495 |
|    | 00000000G | EF   | 00000000G   | EF   | 9E | 00238 | MOVAB       | FOOMRA, MRA                 | : 0496 |
|    |           | 53   |             | 6B   | D0 | 00243 | MOVL        | TSF, HOLD TSF               | : 0497 |
|    |           | 6B   | 00000000G   | EF   | 9E | 00246 | MOVAB       | FOOTSF, TSF                 | : 0498 |
|    |           | 50   | 00000000G   | EF   | D0 | 0024D | MOVL        | MRA, R0                     | : 0504 |
|    | 08        | A0   | 00000000G   | 8F   | D0 | 00254 | MOVL        | #S FMRA, 8(R0)              | :      |
|    |           |      | 0C          | A0   | D4 | 0025C | CLRL        | 12(R0)                      | : 0507 |
|    |           | 60   | 10          | A0   | 9E | 0025F | MOVAB       | 16(R0), (R0)                | :      |
|    | 04        | A0   |             | 60   | D0 | 00263 | MOVL        | (R0), 4(R0)                 | :      |
|    |           |      |             | 50   | D4 | 00267 | CLRL        | I                           | : 0509 |
|    |           |      | 00          | BB40 | D4 | 00269 | 14\$: CLRL  | @TSF[I]                     | :      |
| F8 |           | 50   |             | 27   | F3 | 0026D | AOBLEQ      | #39, I, 14\$                | : 0512 |
|    |           | 0C   | 4C          | AC   | E9 | 00271 | BLBC        | CAPTION_IS_BOLD, 15\$       | :      |
|    |           | 08   | 30          | A9   | E9 | 00275 | BLBC        | SCA+168, 15\$               | :      |
|    | 20        | A9   |             | 01   | 88 | 00279 | BISB2       | #1, SCA+152                 | : 0515 |
|    | 4C        | A9   |             | 01   | 88 | 0027D | BISB2       | #1, SCA+196                 | : 0516 |
|    |           | 0D   | 50          | AC   | E9 | 00281 | 15\$: BLBC  | CAPTION_IS_UNDERLINED, 16\$ | : 0519 |
| 08 | 30        | A9   |             | 01   | E1 | 00285 | BBC         | #1, SCA+168, 16\$           | :      |
|    | 20        | A9   |             | 02   | 88 | 0028A | BISB2       | #2, SCA+152                 | : 0522 |
|    | 4C        | A9   |             | 02   | 88 | 0028E | BISB2       | #2, SCA+196                 | : 0523 |
|    |           |      | 3C          | AC   | DD | 00292 | 16\$: PUSHL | CAPTION_CASE                | : 0527 |
|    | 00000000G | EF   |             | 01   | FB | 00295 | CALLS       | #1, SETCAS                  | :      |
|    | 00000000G | EF   |             | 00   | FB | 0029C | CALLS       | #0, SCANT                   | : 0530 |
|    |           |      |             | 7E   | 7C | 002A3 | CLRQ        | -(SP)                       | : 0531 |
|    |           |      |             | 7E   | D4 | 002A5 | CLRL        | -(SP)                       | :      |
|    | 00000000G | EF   |             | 03   | FB | 002A7 | CALLS       | #3, ENDWRD                  | :      |
|    |           | 7E   | 34          | AC   | 7D | 002AE | MOVQ        | CAPTION_MAJOR_TYPE, -(SP)   | : 0547 |
|    |           |      | 00000000G   | EF   | DD | 002B2 | PUSHL       | FOOMRA                      | : 0546 |
|    |           |      | 00000000G   | EF   | DD | 002B8 | PUSHL       | FOOMRA+12                   | : 0545 |

|    |               |    |           |      |          |       |               |                                   |      |
|----|---------------|----|-----------|------|----------|-------|---------------|-----------------------------------|------|
|    | 00000000G     | EF | 04        | FB   | 002BE    | CALLS | #4, PUTTXT    |                                   |      |
|    | 00000000G     | EF | 54        | D0   | 002C5    | MOVL  | HOLD_MRA, MRA |                                   | 0551 |
|    |               | 6B | 53        | D0   | 002CC    | MOVL  | HOLD_TSF, TSF |                                   | 0552 |
|    |               |    | 50        | D4   | 002CF    | CLRL  | I             |                                   | 0556 |
| F2 | 00000000GEF40 |    | D8        | AD40 | D0 002D1 | 18\$: | MOVL          | IRA_HOLD[I], IRA-4[I]             | 0557 |
|    |               | 50 | 09        | F3   | 002DB    |       | AOBLEQ        | #9, I, 18\$                       |      |
|    | 00000000G     | EF | 55        | D0   | 002DF    |       | MOVL          | HOLD_KHAR, KHAR                   | 0558 |
|    |               |    | 50        | D4   | 002E6    | 19\$: | CLRL          | I                                 | 0562 |
| F2 | 88 A940       |    | 6E40      | D0   | 002E8    | 20\$: | MOVL          | SCA_HOLD[I], SCA[I]               | 0563 |
|    |               | 50 | 0000005F  | 8F   | F3 002EE |       | AOBLEQ        | #95, I, 20\$                      |      |
|    | EC            | B9 |           | 6A   | D0 002F6 |       | MOVL          | PP_SCA, @SCA+100                  |      |
|    | F0            | B9 | 04        | AA   | D0 002FA |       | MOVL          | PP_SCA+4, @SCA+104                |      |
|    | F4            | B9 | 08        | AA   | D0 002FF |       | MOVL          | PP_SCA+8, @SCA+108                |      |
|    | F8            | B9 | 0C        | AA   | D0 00304 |       | MOVL          | PP_SCA+12, @SCA+112               |      |
|    | FC            | B9 | 10        | AA   | D0 00309 |       | MOVL          | PP_SCA+16, @SCA+116               |      |
|    | 00            | B9 | 14        | AA   | D0 0030E |       | MOVL          | PP_SCA+20, @SCA+120               |      |
|    | 04            | B9 | 18        | AA   | D0 00313 |       | MOVL          | PP_SCA+24, @SCA+124               |      |
|    | 08            | B9 | 1C        | AA   | D0 00318 |       | MOVL          | PP_SCA+28, @SCA+128               |      |
|    | 0C            | B9 | 20        | AA   | D0 0031D |       | MOVL          | PP_SCA+32, @SCA+132               |      |
|    | 10            | B9 | 24        | AA   | D0 00322 |       | MOVL          | PP_SCA+36, @SCA+136               |      |
|    | 14            | B9 | 28        | AA   | D0 00327 |       | MOVL          | PP_SCA+40, @SCA+140               |      |
|    | 18            | B9 | 2C        | AA   | D0 0032C |       | MOVL          | PP_SCA+44, @SCA+144               |      |
|    | F0            | B9 |           | 01   | D0 00331 |       | MOVL          | #1, @SCA+104                      | 0565 |
|    |               |    | 34        | A9   | D4 00335 |       | CLRL          | SCA+172                           | 0566 |
|    | 54            | A9 |           | 01   | D0 00338 |       | MOVL          | #1, SCA+204                       | 0567 |
|    |               | 0C | 4C        | AC   | E9 0033C |       | BLBC          | CAPTION_IS_BOLD, 21\$             | 0571 |
|    |               | 08 | 30        | A9   | E9 00340 |       | BLBC          | SCA+168, 21\$                     |      |
|    | 20            | A9 |           | 01   | 88 00344 |       | BISB2         | #1, SCA+152                       | 0574 |
|    | 4C            | A9 |           | 01   | 88 00348 |       | BISB2         | #1, SCA+196                       | 0575 |
|    |               | 0D | 50        | AC   | E9 0034C | 21\$: | BLBC          | CAPTION_IS_UNDERLINED, 22\$       | 0578 |
| 08 | 30            | A9 |           | 01   | E1 00350 |       | BBC           | #1, SCA+168, 22\$                 |      |
|    | 20            | A9 |           | 02   | 88 00355 |       | BISB2         | #2, SCA+152                       | 0581 |
|    | 4C            | A9 |           | 02   | 88 00359 |       | BISB2         | #2, SCA+196                       | 0582 |
| 7E | 00            | AC |           | 01   | 7A 0035D | 22\$: | EMUL          | #1, CAPTION_MINOR_TYPE, #0, -(SP) | 0588 |
| 51 | 51            | 8E |           | 03   | 7B 00363 |       | EDIV          | #3, (SP)+, R1, R1                 |      |
|    |               |    |           | 50   | D4 00368 |       | CLRL          | R0                                |      |
|    |               |    |           | 51   | D5 0036A |       | TSTL          | R1                                |      |
|    |               |    |           | 02   | 12 0036C |       | BNEQ          | 23\$                              |      |
|    |               |    |           | 50   | D6 0036E |       | INCL          | R0                                |      |
|    |               | 52 |           | 50   | D2 00370 | 23\$: | MCOML         | R0, SHOW_COUNTER                  |      |
|    |               | 57 | 40        | AC   | D0 00373 |       | MOVL          | CAPTION_IS_CENTERED, R7           | 0592 |
|    |               | 08 |           | 57   | E9 00377 |       | BLBC          | R7, 24\$                          |      |
|    | FC            | B9 |           | 03   | C0 0037A |       | ADDL2         | #3, @SCA+116                      | 0595 |
|    | 00            | B9 |           | 03   | C2 0037E |       | SUBL2         | #3, @SCA+120                      | 0596 |
|    |               | 03 |           | 52   | E8 00382 | 24\$: | BLBS          | SHOW_COUNTER, 25\$                | 0599 |
|    |               |    |           | 00EE | 31 00385 |       | BRW           | 40\$                              |      |
|    |               |    | 3C        | AC   | DD 00388 | 25\$: | PUSHL         | CAPTION_CASE                      | 0605 |
|    |               |    | 14        | AC   | DD 0038B |       | PUSHL         | COUNTER_MINOR_TYPE                |      |
|    | 00000000V     | EF |           | 02   | FB 0038E |       | CALLS         | #2, OUTCTR                        |      |
|    | 00000000G     | EF | 00000000G | EF   | D0 00395 |       | MOVL          | FS01, FS01+4                      | 0609 |
|    |               | 53 | 00000000G | EF   | D0 003A0 |       | MOVL          | FS01+12, R3                       | 0610 |
|    |               |    |           | 52   | D4 003A7 |       | CLRL          | I                                 |      |
|    |               |    |           | 1C   | 11 003A9 |       | BRB           | 27\$                              |      |
|    |               | 50 | 00000000G | FF   | 9A 003AB | 26\$: | MOVZBL        | @FS01+4, TEMP_CHAR                | 0614 |
|    |               |    | 00000000G | EF   | D6 003B2 |       | INCL          | FS01+4                            |      |
|    |               |    | 00000000G | EF   | D7 003B8 |       | DECL          | FS01+12                           |      |
|    |               |    |           | 50   | DD 003BE |       | PUSHL         | TEMP_CHAR                         | 0615 |



|    |    |    |           |    |    |    |          |        |                                    |      |  |
|----|----|----|-----------|----|----|----|----------|--------|------------------------------------|------|--|
|    |    |    | 00000000G | EF | 01 | FB | 003C0    | CALLS  | #1, ENDCHR                         |      |  |
|    |    |    | E0        | 52 | 53 | F3 | 003C7    | AOBLEQ | R3, I, 26\$                        | 0610 |  |
|    |    |    |           |    | 7E | 7C | 003CB    | CLRQ   | -(SP)                              | 0620 |  |
|    |    |    | 00000000G | EF | 7E | D4 | 003CD    | CLRL   | -(SP)                              |      |  |
|    |    |    |           |    | 03 | FB | 003CF    | CALLS  | #3, ENDWRD                         | 0625 |  |
|    |    |    |           |    | 54 | D4 | 003D6    | CLRL   | R4                                 |      |  |
|    |    |    |           |    | 64 | AC | D5 003D8 | TSTL   | LINES_BETWEEN                      |      |  |
|    |    |    |           |    | 02 | 15 | 003DB    | BLEQ   | 28\$                               |      |  |
|    |    |    |           |    | 54 | D6 | 003DD    | INCL   | R4                                 |      |  |
|    |    |    |           | 54 | 60 | AC | C8 003DF | BISL2  | BREAK BEFORE_CAPTION, R4           |      |  |
|    |    |    |           | 42 | 54 | E8 | 003E3    | BLBS   | R4, 32\$                           |      |  |
| 56 | 4C | A9 |           | 02 | 00 | EF | 003E6    | EXTZV  | #0, #2, SCA+196, SCA_HOLD_C BLDUN  | 0634 |  |
| 55 | 50 | A9 |           | 02 | 00 | EF | 003EC    | EXTZV  | #0, #2, SCA+200, SCA_HOLD_AC_BLDUN | 0635 |  |
|    |    |    | 0000004B  | 52 | 20 | AC | D0 003F2 | MOVL   | COUNTER_SPACES_AFTER, R2           | 0636 |  |
|    |    |    |           | 8F | 52 | D1 | 003F6    | CMPL   | R2, #75                            |      |  |
|    |    |    |           |    | 04 | 15 | 003FD    | BLEQ   | 29\$                               |      |  |
|    |    |    |           | 52 | 4B | 8F | 9A 003FF | MOVZBL | #75, R2                            |      |  |
|    |    |    |           |    | 53 | D4 | 00403    | CLRL   | I                                  |      |  |
|    |    |    |           |    | 11 | 11 | 00405    | BRB    | 31\$                               |      |  |
|    |    |    | 4C        | A9 | 03 | 8A | 00407    | BICB2  | #3, SCA+196                        | 0638 |  |
|    |    |    | 50        | A9 | 03 | 8A | 0040B    | BICB2  | #3, SCA+200                        | 0639 |  |
|    |    |    |           |    | 20 | DD | 0040F    | PUSHL  | #32                                | 0640 |  |
|    |    |    | 00000000G | EF | 01 | FB | 00411    | CALLS  | #1, ENDCHR                         |      |  |
|    |    |    |           | 53 | 52 | F3 | 00418    | AOBLEQ | R2, I, 30\$                        | 0636 |  |
| 4C | A9 | EB |           | 00 | 56 | F0 | 0041C    | INSV   | SCA_HOLD_C BLDUN, #0, #2, SCA+196  | 0644 |  |
| 50 | A9 | 02 |           | 00 | 55 | F0 | 00422    | INSV   | SCA_HOLD_AC_BLDUN, #0, #2, SCA+200 | 0645 |  |
|    |    |    |           |    | 7E | 7C | 00428    | CLRQ   | -(SP)                              | 0650 |  |
|    |    |    |           |    | 7E | D4 | 0042A    | CLRL   | -(SP)                              |      |  |
|    |    |    | 00000000G | EF | 03 | FB | 0042C    | CALLS  | #3, ENDWRD                         |      |  |
|    |    |    |           | 04 | 57 | E8 | 00433    | BLBS   | R7, 33\$                           | 0655 |  |
|    |    |    |           | 2F | 44 | AC | E9 00436 | BLBC   | CAPTION_IS_FLUSH_RIGHT, 38\$       |      |  |
|    |    |    |           | 50 | 6B | D0 | 0043A    | MOVL   | TSF, R0                            | 0663 |  |
|    |    |    |           | 05 | 60 | AC | E8 0043D | BLBS   | BREAK BEFORE CAPTION, 34\$         |      |  |
|    |    |    |           |    | 64 | AC | D5 00441 | TSTL   | LINES_BETWEEN                      | 0658 |  |
|    |    |    |           |    | 1D | 15 | 00444    | BLEQ   | 37\$                               |      |  |
|    |    |    |           | 51 | 6B | D0 | 00446    | MOVL   | TSF, R1                            | 0660 |  |
|    |    |    |           | 0B | 57 | E9 | 00449    | BLBC   | R7, 35\$                           | 0663 |  |
|    |    |    |           | B9 | 04 | A0 | C3 0044C | SUBL3  | 4(R0), @SCA+120, R0                |      |  |
|    |    |    |           | 50 | 02 | C6 | 00452    | DIVL2  | #2, R0                             |      |  |
|    |    |    |           |    | 06 | 11 | 00455    | BRB    | 36\$                               |      |  |
|    |    |    |           |    | 04 | A0 | C3 00457 | SUBL3  | 4(R0), @SCA+120, R0                | 0665 |  |
|    |    |    |           |    | 50 | D0 | 0045D    | MOVL   | R0, 40(R1)                         | 0662 |  |
|    |    |    |           |    | 17 | 11 | 00461    | BRB    | 41\$                               | 0658 |  |
|    |    |    |           | 58 | 04 | A0 | D0 00463 | MOVL   | 4(R0), HOLD_LM                     | 0671 |  |
|    |    |    |           |    | 06 | 11 | 00467    | BRB    | 39\$                               | 0672 |  |
|    |    |    |           | 0E | 54 | E8 | 00469    | BLBS   | R4, 41\$                           | 0684 |  |
|    |    |    |           | 50 | 6B | D0 | 0046C    | MOVL   | TSF, R0                            | 0689 |  |
|    |    |    | FC        | B9 | 04 | A0 | D0 0046F | MOVL   | 4(R0), @SCA+116                    |      |  |
|    |    |    |           |    | 04 | 11 | 00474    | BRB    | 41\$                               | 0599 |  |
|    |    |    | 1C        | A9 | 01 | D0 | 00476    | MOVL   | #1, SCA+148                        | 0697 |  |
|    |    |    | 00000000G | EF | 01 | D0 | 0047A    | MOVL   | #1, GCA+224                        | 0703 |  |
|    |    |    |           | 05 | 60 | AC | E8 00481 | BLBS   | BREAK BEFORE CAPTION, 42\$         | 0704 |  |
|    |    |    |           |    | 64 | AC | D5 00485 | TSTL   | LINES_BETWEEN                      |      |  |
|    |    |    |           |    | 11 | 15 | 00488    | BLEQ   | 43\$                               |      |  |
|    |    |    | 00000000G | EF | 00 | FB | 0048A    | CALLS  | #0, OUTNJ                          | 0707 |  |
|    |    |    |           |    | 64 | AC | DD 00491 | PUSHL  | LINES_BETWEEN                      | 0708 |  |
|    |    |    | 00000000G | EF | 01 | FB | 00494    | CALLS  | #1, GCSKIP                         |      |  |

|    |           |           |      |    |          |       |        |                              |      |
|----|-----------|-----------|------|----|----------|-------|--------|------------------------------|------|
|    | 54        | 00        | BB   | D0 | 0049B    | 43\$: | MOVL   | @TSF, GEN_CHAR               | 0712 |
|    |           | 3C        | AC   | DD | 0049F    |       | PUSHL  | CAPTION_CASE                 | 0715 |
|    | 00000000G | EF        | 01   | FB | 004A2    |       | CALLS  | #1, SETCAS                   |      |
|    | 58        | A9        | 01   | D0 | 004A9    |       | MOVL   | #1, SCA+208                  | 0719 |
|    | 00000000G | EF        | 00   | FB | 004AD    |       | CALLS  | #0, SCANT                    | 0721 |
|    | 00000000G | 8F        | 00A0 | C9 | D1 004B4 |       | CMPL   | SCA+280, #RINTES             | 0727 |
|    |           |           | 0D   | 13 | 004BD    |       | BEQL   | 44\$                         |      |
|    |           |           | 7E   | 7C | 004BF    |       | CLRQ   | -(SP)                        | 0729 |
|    |           |           | 7E   | D4 | 004C1    |       | CLRL   | -(SP)                        |      |
|    | 00000000G | EF        | 03   | FB | 004C3    |       | CALLS  | #3, ENDWRD                   |      |
|    |           |           | 30   | 11 | 004CA    |       | BRB    | 47\$                         |      |
|    |           |           | 00DC | C9 | D5 004CC | 44\$: | TSTL   | SCA+340                      | 0731 |
|    |           |           | 2A   | 12 | 004D0    |       | BNEQ   | 47\$                         |      |
|    |           |           | 00D4 | C9 | D5 004D2 |       | TSTL   | SCA+332                      | 0733 |
|    |           |           | 24   | 15 | 004D6    |       | BLEQ   | 47\$                         |      |
|    | 05        | EC        | B9   | E9 | 004D8    |       | BLBC   | @SCA+100, 45\$               | 0744 |
|    | 50        |           | 03   | D0 | 004DC    |       | MOVL   | #3, R0                       |      |
|    |           |           | 02   | 11 | 004DF    |       | BRB    | 46\$                         |      |
|    |           |           | 50   | D4 | 004E1    | 45\$: | CLRL   | R0                           |      |
| 51 | 50        | 00D4      | C9   | C1 | 004E3    | 46\$: | ADDL3  | SCA+332, R0, CHARS_TO_DROP   |      |
|    | 50        | 00000000G | EF   | D0 | 004E9    |       | MOVL   | MRA, R0                      | 0748 |
|    | OC        | A0        | 51   | C2 | 004F0    |       | SUBL2  | CHARS_TO_DROP, 12(R0)        |      |
|    | 04        | A0        | 51   | C2 | 004F4    |       | SUBL2  | CHARS_TO_DROP, 4(R0)         | 0749 |
|    |           |           | 00D4 | C9 | D4 004F8 |       | CLRL   | SCA+332                      | 0750 |
|    | 51        | 0080      | C9   | D0 | 004FC    | 47\$: | MOVL   | SCA+248, HOLD_WRD_PNTR       | 0764 |
|    | 52        | 00D4      | C9   | D0 | 00501    |       | MOVL   | SCA+332, HOLD_LST_SP         | 0765 |
|    |           |           | 50   | D4 | 00506    |       | CLRL   | I                            | 0766 |
| F2 | 88        | A940      | 6E40 | D0 | 00508    | 48\$: | MOVL   | SCA_HOLD[I], SCA[I]          | 0767 |
|    | 50        | 00000005F | 8F   | F3 | 0050E    |       | AOBLEQ | #95, I, 48\$                 |      |
|    | EC        | B9        | 6A   | D0 | 00516    |       | MOVL   | PP_SCA, @SCA+100             |      |
|    | FO        | B9        | 04   | AA | D0 0051A |       | MOVL   | PP_SCA+4, @SCA+104           |      |
|    | F4        | B9        | 08   | AA | D0 0051F |       | MOVL   | PP_SCA+8, @SCA+108           |      |
|    | F8        | B9        | 0C   | AA | D0 00524 |       | MOVL   | PP_SCA+12, @SCA+112          |      |
|    | FC        | B9        | 10   | AA | D0 00529 |       | MOVL   | PP_SCA+16, @SCA+116          |      |
|    | 00        | B9        | 14   | AA | D0 0052E |       | MOVL   | PP_SCA+20, @SCA+120          |      |
|    | 04        | B9        | 18   | AA | D0 00533 |       | MOVL   | PP_SCA+24, @SCA+124          |      |
|    | 08        | B9        | 1C   | AA | D0 00538 |       | MOVL   | PP_SCA+28, @SCA+128          |      |
|    | OC        | B9        | 20   | AA | D0 0053D |       | MOVL   | PP_SCA+32, @SCA+132          |      |
|    | 10        | B9        | 24   | AA | D0 00542 |       | MOVL   | PP_SCA+36, @SCA+136          |      |
|    | 14        | B9        | 28   | AA | D0 00547 |       | MOVL   | PP_SCA+40, @SCA+140          |      |
|    | 18        | B9        | 2C   | AA | D0 0054C |       | MOVL   | PP_SCA+44, @SCA+144          |      |
|    | 0080      | C9        | 51   | D0 | 00551    |       | MOVL   | HOLD_WRD_PNTR, SCA+248       | 0769 |
|    | 00D4      | C9        | 52   | D0 | 00556    |       | MOVL   | HOLD_LST_SP, SCA+332         | 0770 |
|    |           |           | 48   | AC | E9 0055B |       | BLBC   | CAPTION IS RUN-IN, 49\$      | 0786 |
|    | 00        | BB        | 54   | D1 | 0055F    |       | CMPL   | GEN_CHAR, @TSF               | 0789 |
|    |           |           | 69   | 13 | 00563    |       | BEQL   | 55\$                         |      |
|    |           |           | 20   | DD | 00565    |       | PUSHL  | #32                          | 0793 |
|    | 00000000G | EF        | 01   | FB | 00567    |       | CALLS  | #1, ENDCHR                   |      |
|    |           |           | 2D   | DD | 0056E    |       | PUSHL  | #45                          | 0794 |
|    | 00000000G | EF        | 01   | FB | 00570    |       | CALLS  | #1, ENDCHR                   |      |
|    |           |           | 7E   | 7C | 00577    |       | CLRQ   | -(SP)                        | 0795 |
|    |           |           | 01   | DD | 00579    |       | PUSHL  | #1                           |      |
|    | 00000000G | EF        | 03   | FB | 0057B    |       | CALLS  | #3, ENDWRD                   |      |
|    |           |           | 4A   | 11 | 00582    |       | BRB    | 55\$                         | 0788 |
|    | 04        |           | 57   | E8 | 00584    | 49\$: | BLBS   | R7, 50\$                     | 0816 |
|    | 2E        | 44        | AC   | E9 | 00587    |       | BLBC   | CAPTION IS FLUSH_RIGHT, 54\$ |      |
|    | 09        | 00000000G | EF   | E8 | 0058B    | 50\$: | BLBS   | GCA+224, 5T\$                | 0818 |



OUTHDR  
V04-000

O/P module for processing  
Module Level Declarations

1 11  
HEADER: figure, table 16-Sep-1984 01:20:29  
14-Sep-1984 13:07:31

VAX-11 Bliss-32 V4.0-742  
[RUNOFF.SRC]OUTHDR.BLI;1

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|           |    |           |    |       |       |       |                            |                     |
|-----------|----|-----------|----|-------|-------|-------|----------------------------|---------------------|
|           | 05 | 60        | AC | E8    | 00592 | BLBS  | BREAK BEFORE CAPTION, 51\$ | : 0826              |
|           |    | 64        | AC | D5    | 00596 | TSTL  | LINES BETWEEN              | : 0827              |
|           | 50 |           | 1E | 15    | 00599 | BLEQ  | 54\$                       | : 0830              |
|           | 0E |           | 6B | D0    | 0059B | MOVL  | TSF, R0                    |                     |
| 51        | 00 | B9        | 57 | E9    | 0059E | BLBC  | R7, 52\$                   |                     |
|           | 51 | 04        | A0 | C3    | 005A1 | SUBL3 | 4(R0), @SCA+120, R1        |                     |
|           | 51 |           | 02 | C6    | 005A7 | DIVL2 | #2, R1                     |                     |
|           |    |           | 02 | C2    | 005AA | SUBL2 | #2, R1                     |                     |
|           |    |           | 06 | 11    | 005AD | BRB   | 53\$                       |                     |
| 51        | 00 | B9        | 04 | A0    | C3    | 005AF | SUBL3                      | 4(R0), @SCA+120, R1 |
|           | 28 | A0        | 51 | D0    | 005B5 | MOVL  | R1, 40(R0)                 | : 0832              |
| 00000000G | EF |           | 00 | FB    | 005B9 | CALLS | #0, OUTNJ                  | : 0829              |
|           |    | 08        | AC | DD    | 005C0 | PUSHL | LINES AFTER                | : 0834              |
| 00000000G | EF |           | 01 | FB    | 005C3 | CALLS | #1, GCSKIP                 | : 0836              |
| 3C        | A9 |           | 01 | D0    | 005CA | MOVL  | #1, SCA+180                | : 0838              |
|           |    | 00000000G | FF | DD    | 005CE | PUSHL | @GCA+128                   | : 0842              |
| 00000000G | EF |           | 01 | FB    | 005D4 | CALLS | #1, SETCAS                 | : 0844              |
|           |    |           | 04 | 005DB | RET   |       |                            |                     |

; Routine Size: 1500 bytes, Routine Base: \$CODE\$ + 0000

```

719 0845 1 GLOBAL ROUTINE OUTCTR (HEADER_TYPE, HEADER_CASE) : NOVALUE =
720 0846 1
721 0847 1 !++
722 0848 1 FUNCTIONAL DESCRIPTION:
723 0849 1
724 0850 1 OUTCTR generates (for header levels) a section number of the form
725 0851 1 1.2.3... For Example-Figure-Table titles it generates a
726 0852 1 counter of the form Example 2-4: ...
727 0853 1
728 0854 1 FORMAL PARAMETERS:
729 0855 1
730 0856 1 HEADER_TYPE is the counter minor type of this header; it indicates
731 0857 1 whether this is an HC or an E/F/T title.
732 0858 1
733 0859 1 HEADER_CASE is the case rules for this header, indicating upper/lower case.
734 0860 1
735 0861 1 IMPLICIT INPUTS: None
736 0862 1
737 0863 1 IMPLICIT OUTPUTS: None
738 0864 1
739 0865 1 ROUTINE VALUE:
740 0866 1 COMPLETION CODES: None
741 0867 1
742 0868 1 SIDE EFFECTS: None
743 0869 1
744 0870 1 --
745 0871 1
746 0872 2 BEGIN
747 0873 2 OWN
748 0874 2 OFFSET; !As an own for debug purposes only***
749 0875 2
750 0876 2 LOCAL
751 0877 2 ENTITY_LEN; !Length of ENTITY_TEXT.
752 0878 2 ENTITY_TEXT; !Contains 'Example ' or 'Figure ' or 'Table '.
753 0879 2 !** OFFSET; !Offset into entity counter and display-code structures.
754 0880 2
755 0881 2 FS_INIT (FS01);
756 0882 2
757 0883 2 SELECT .HEADER_TYPE OF
758 0884 2 SET
759 0885 2 !
760 0886 2 [MIN_HL_INF] :
761 0887 2
762 0888 2 BEGIN
763 0889 2 IF .PAGEN [SCT_TYP] NEQ 0
764 0890 2 THEN
765 0891 2 !This is a document divided into sections.
766 0892 2 BEGIN
767 0893 2 FS_LENGTH (FS01) = PACSEC (PAGEN, FS_NEXT (FS01));
768 0894 2
769 0895 2 INCR I FROM 1 TO .HLLIST [CL_INDEX] DO
770 0896 2 BEGIN
771 0897 2 FS_WCHAR (FS01, %C'.');
772 0898 2 FS_LENGTH (FS01) = .FS_LENGTH (FS01) + PACXXX (.HLLIST [I], FS_NEXT (FS01), .HLDSP [I]
773 0899 2 END;
774 0900 2 END
775 0901 2 ELSE

```



```

776 0902 3      !Not a document divided into sections.
777 0903 4      BEGIN
778 0904 4      IF .HLLIST [CL_INDEX] EQL 1
779 0905 4      THEN
780 0906 4      !Special case for .HEADER LEVEL 1
781 0907 4      !Don't output a subsection number of zero.
782 0908 5      BEGIN
783 0909 5      FS_LENGTH (FS01) = PACXXX (.HLLIST [1], FS_NEXT (FS01), .HLDSP [0]);
784 0910 5      RETURN;
785 0911 4      END;
786 0912 4
787 0913 4      !Not a .HL1
788 0914 4      INCR I FROM 1 TO .HLLIST [CL_INDEX] DO
789 0915 5      BEGIN
790 0916 5      FS_LENGTH (FS01) = .FS_LENGTH (FS01) + PACXXX (.HLLIST [I], FS_NEXT (FS01), .HLDSP [I
791 0917 5      FS_WCHAR (FS01, %C'.');
792 0918 4      END;
793 0919 4
794 0920 4      !Always get an extra dot, so remove it.
795 0921 4      FS_LENGTH (FS01) = .FS_LENGTH (FS01) - 1;
796 0922 4      CH$PLUS (FS_NEXT (FS01), -1);
797 0923 3      END;
798 0924 3
799 0925 3      RETURN;
800 0926 2      END;
801 0927 2      ! End of HL counter processing.
802 0928 2      !
803 0929 2      [MIN_EXAMP_INF] :
804 0930 3      BEGIN
805 0931 3      ENTITY_TEXT =
806 0932 4      (CASE .HEADER_CASE FROM LEAVE_CASE TO FIRST_CAPS OF
807 0933 4      SET
808 0934 4
809 U 0935 4      %IF german %THEN
810 U 0936 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Beispiel'));
811 U 0937 4      [FORCE_UPPER] : CH$PTR (UPLIT ('BEISPIEL'));
812 U 0938 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Beispiel'));
813 0939 4      %ELSE
814 U 0940 4      %IF french %THEN
815 U 0941 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Example'));
816 U 0942 4      [FORCE_UPPER] : CH$PTR (UPLIT ('EXAMPLE'));
817 U 0943 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Example'));
818 0944 4      %ELSE
819 U 0945 4      %IF italian %THEN
820 U 0946 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Example'));
821 U 0947 4      [FORCE_UPPER] : CH$PTR (UPLIT ('EXAMPLE'));
822 U 0948 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Example'));
823 0949 4      %ELSE
824 0950 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Example'));
825 0951 4      [FORCE_UPPER] : CH$PTR (UPLIT ('EXAMPLE'));
826 0952 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Example'));
827 0953 4      %FI %FI %FI
828 0954 3      TES);
829 0955 3
830 U 0956 3      %IF german %THEN
831 U 0957 3      ENTITY_LEN = 8;
832 0958 3      %ELSE

```

```

833 U 0959 3 %IF french %THEN
834 U 0960      ENTITY_LEN = 7;
835      %ELSE
836 U 0962 3 %IF italian %THEN
837 U 0963      ENTITY_LEN = 7;
838      %ELSE
839      0965      ENTITY_LEN = 7;
840      0966 %FI %FI %FI
841      0967      OFFSET = EXAMP_OFFSET;
842      0968      END;
843      0969      !
844      0970      [MIN_FIGUR_INF] :
845      0971      !
846      0972      BEGIN
847      0973      ENTITY_TEXT =
848      0974      (CASE .HEADER_CASE FROM LEAVE_CASE TO FIRST_CAPS OF
849      0975      SET
850      0976      4
851 U 0977 4 %IF german %THEN
852 U 0978      4 [LEAVE_CASE] : CH$PTR (UPLIT ('Bild'));
853 U 0979      4 [FORCE_UPPER] : CH$PTR (UPLIT ('BILD'));
854 U 0980      4 [FIRST_CAPS] : CH$PTR (UPLIT ('Bild'));
855      0981 4 %ELSE
856 U 0982 4 %IF french %THEN
857 U 0983      4 [LEAVE_CASE] : CH$PTR (UPLIT ('Figure'));
858 U 0984      4 [FORCE_UPPER] : CH$PTR (UPLIT ('FIGURE'));
859 U 0985      4 [FIRST_CAPS] : CH$PTR (UPLIT ('Figure'));
860      0986 4 %ELSE
861 U 0987 4 %IF italian %THEN
862 U 0988      4 [LEAVE_CASE] : CH$PTR (UPLIT ('Figure'));
863 U 0989      4 [FORCE_UPPER] : CH$PTR (UPLIT ('FIGURE'));
864 U 0990      4 [FIRST_CAPS] : CH$PTR (UPLIT ('Figure'));
865      0991 4 %ELSE
866      0992      4 [LEAVE_CASE] : CH$PTR (UPLIT ('Figure'));
867      0993      4 [FORCE_UPPER] : CH$PTR (UPLIT ('FIGURE'));
868      0994      4 [FIRST_CAPS] : CH$PTR (UPLIT ('Figure'));
869      0995 4 %FI %FI %FI
870      0996      4
871      0997      TES);
872      0998      4
873 U 0999 3 %IF german %THEN
874 U 1000      ENTITY_LEN = 4;
875      1001 %ELSE
876 U 1002 3 %IF french %THEN
877 U 1003      ENTITY_LEN = 6;
878      1004 %ELSE
879 U 1005 3 %IF italian %THEN
880 U 1006      ENTITY_LEN = 6;
881      1007 %ELSE
882      1008      ENTITY_LEN = 6;
883      1009 %FI %FI %FI
884      1010      OFFSET = FIGUR_OFFSET;
885      1011      END;
886      1012      !
887      1013      [MIN_TABLE_INF] :
888      1014      !
889      1015      BEGIN

```



```

890      1016 3      ENTITY TEXT =
891      1017 4      (CASE .HEADER_CASE FROM LEAVE_CASE TO FIRST_CAPS OF
892      1018 4      SET
893      1019 4
894      U 1020 4      %IF german %THEN
895      U 1021 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Tabelle'));
896      U 1022 4      [FORCE_UPPER] : CH$PTR (UPLIT ('TABELLE'));
897      U 1023 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Tabelle'));
898      1024 4      %ELSE
899      U 1025 4      %IF french %THEN
900      U 1026 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Table'));
901      U 1027 4      [FORCE_UPPER] : CH$PTR (UPLIT ('TABLE'));
902      U 1028 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Table'));
903      1029 4      %ELSE
904      U 1030 4      %IF italian %THEN
905      U 1031 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Table'));
906      U 1032 4      [FORCE_UPPER] : CH$PTR (UPLIT ('TABLE'));
907      U 1033 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Table'));
908      1034 4      %ELSE
909      1035 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Table'));
910      1036 4      [FORCE_UPPER] : CH$PTR (UPLIT ('TABLE'));
911      1037 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Table'));
912      1038 4      %FI %FI %FI
913      1039 3      TES);
914      1040 3
915      U 1041 3      %IF german %THEN
916      U 1042 3      ENTITY_LEN = 7;
917      1043 3      %ELSE
918      U 1044 3      %IF french %THEN
919      U 1045 3      ENTITY_LEN = 5;
920      1046 3      %ELSE
921      U 1047 3      %IF italian %THEN
922      U 1048 3      ENTITY_LEN = 5;
923      1049 3      %ELSE
924      1050 3      ENTITY_LEN = 5;
925      1051 3      %FI %FI %FI
926      1052 3      OFFSET = TABLE_OFFSET;
927      1053 3      END;
928      1054 2
929      1055 2      [MIN_APPEND_INF] :
930      1056 2
931      1057 3      BEGIN
932      1058 3      ENTITY TEXT =
933      1059 4      (CASE .HEADER_CASE FROM LEAVE_CASE TO FIRST_CAPS OF
934      1060 4      SET
935      1061 4
936      U 1062 4      %IF german %THEN
937      U 1063 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Anhang'));
938      U 1064 4      [FORCE_UPPER] : CH$PTR (UPLIT ('ANHANG'));
939      U 1065 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Anhang'));
940      1066 4      %ELSE
941      U 1067 4      %IF french %THEN
942      U 1068 4      [LEAVE_CASE] : CH$PTR (UPLIT ('Appendix'));
943      U 1069 4      [FORCE_UPPER] : CH$PTR (UPLIT ('APPENDIX'));
944      U 1070 4      [FIRST_CAPS] : CH$PTR (UPLIT ('Appendix'));
945      1071 4      %ELSE
946      U 1072 4      %IF italian %THEN

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```

947 U 1073 4 [LEAVE_CASE] : CH$PTR (UPLIT ('Appendix'));
948 U 1074 4 [FORCE_UPPER] : CH$PTR (UPLIT ('APPENDIX'));
949 U 1075 4 [FIRST_CAPS] : CH$PTR (UPLIT ('Appendix'));
950 1076 4 %ELSE
951 1077 4 [LEAVE_CASE] : CH$PTR (UPLIT ('Appendix'));
952 1078 4 [FORCE_UPPER] : CH$PTR (UPLIT ('APPENDIX'));
953 1079 4 [FIRST_CAPS] : CH$PTR (UPLIT ('Appendix'));
954 1080 4 %FI %FI %FI
955 1081 4
956 1082 4 TES);
957 1083 4
958 U 1084 4 %IF german %THEN
959 U 1085 4 ENTITY_LEN = 6;
960 1086 4 %ELSE
961 U 1087 4 %IF french %THEN
962 U 1088 4 ENTITY_LEN = 8;
963 1089 4 %ELSE
964 U 1090 4 %IF italian %THEN
965 U 1091 4 ENTITY_LEN = 8;
966 1092 4 %ELSE
967 1093 4 ENTITY_LEN = 8;
968 1094 4 %FI %FI %FI
969 1095 4 OFFSET = APPEND_OFFSET;
970 1096 4 END;
971 1097 4
972 1098 4 [MIN_CHAPT_INF] :
973 1099 4
974 1100 4 BEGIN
975 1101 4 ENTITY TEXT =
976 1102 4 (CASE .HEADER_CASE FROM LEAVE_CASE TO FIRST_CAPS OF
977 1103 4 SET
978 1104 4
979 U 1105 4 %IF german %THEN
980 U 1106 4 [LEAVE_CASE] : CH$PTR (UPLIT ('Kapitel'));
981 U 1107 4 [FORCE_UPPER] : CH$PTR (UPLIT ('KAPITEL'));
982 U 1108 4 [FIRST_CAPS] : CH$PTR (UPLIT ('Kapitel'));
983 1109 4 %ELSE
984 U 1110 4 %IF french %THEN
985 U 1111 4 [LEAVE_CASE] : CH$PTR (UPLIT ('Chapter'));
986 U 1112 4 [FORCE_UPPER] : CH$PTR (UPLIT ('CHAPTER'));
987 U 1113 4 [FIRST_CAPS] : CH$PTR (UPLIT ('Chapter'));
988 1114 4 %ELSE
989 U 1115 4 %IF italian %THEN
990 U 1116 4 [LEAVE_CASE] : CH$PTR (UPLIT ('Chapter'));
991 U 1117 4 [FORCE_UPPER] : CH$PTR (UPLIT ('CHAPTER'));
992 U 1118 4 [FIRST_CAPS] : CH$PTR (UPLIT ('Chapter'));
993 1119 4 %ELSE
994 1120 4 [LEAVE_CASE] : CH$PTR (UPLIT ('Chapter'));
995 1121 4 [FORCE_UPPER] : CH$PTR (UPLIT ('CHAPTER'));
996 1122 4 [FIRST_CAPS] : CH$PTR (UPLIT ('Chapter'));
997 1123 4 %FI %FI %FI
998 1124 4 TES);
999 1125 4
1000 U 1126 4 %IF french %THEN
1001 U 1127 4 ENTITY_LEN = 7;
1002 1128 4 %ELSE
1003 U 1129 4 %IF italian %THEN

```



```

1004 U 1130 3      ENTITY_LEN = 7;
1005 1131 3      %ELSE ! The German & English words are the same length.
1006 1132 3      ENTITY_LEN = 7;
1007 1133 3      %FI %FI
1008 1134 3      OFFSET = CHAP_OFFSET;
1009 1135 3      END;
1010 1136 3      !
1011 1137 3      [MIN_EXAMP_INF, MIN_FIGUR_INF, MIN_TABLE_INF, MIN_APPEND_INF, MIN_CHAPT_INF] :
1012 1138 3      !
1013 1139 3      BEGIN
1014 1140 3
1015 1141 3      !Write the entity identifier ('Example ' or ...).
1016 1142 3      INCR I FROM 1 TO .ENTITY_LEN DO
1017 1143 3      ENDCHR (CH$RCHAR_A (ENTITY_TEXT));
1018 1144 3
1019 1145 3      !End the entity with a space.
1020 1146 3      ENDWRD (TRUE,FALSE,FALSE);
1021 1147 3
1022 1148 3      !Write the pre-counter string, if any.
1023 1149 4      BEGIN
1024 1150 4      LOCAL
1025 1151 4      PTR,
1026 1152 4      LEN;
1027 1153 4      PTR = .ECC [.OFFSET, ECC$A_PRE_PTR];
1028 1154 4      LEN = .ECC [.OFFSET, ECC$H_PRE_LEN];
1029 1155 4
1030 1156 4      INCR I FROM 1 TO .LEN DO
1031 1157 4      FS_WCHAR (FS01, CH$RCHAR_A (PTR));
1032 1158 4      END;
1033 1159 4
1034 1160 3      !If the document is divided into sections, write the chapter number and '-'.
1035 1161 3      !However if this is a chapter/appendix beign processed, we don't
1036 1162 3      !want to pick up the section number.
1037 1163 3      IF .OFFSET LSS CHAP_OFFSET
1038 1164 3      THEN
1039 1165 3      !This isn't a chapter/appendix
1040 1166 3      IF .PAGEN [SCT_TYP] NEQ 0
1041 1167 4      THEN
1042 1168 4      BEGIN
1043 1169 4      FS_LENGTH (FS01) = .FS_LENGTH (FS01) + PACSEC (PAGEN, FS_NEXT (FS01));
1044 1170 4      FS_WCHAR (FS01, %C'-');
1045 1171 4      END;
1046 1172 3
1047 1173 3      !Write the entity's counter in the current display mode.
1048 1174 3      !Note that this is the section number for chapter/appendix
1049 1175 3      FS_LENGTH (FS01) = .FS_LENGTH (FS01) +
1050 1176 3      PACXXX (.ECC [.OFFSET, ECC$H_COUNTER],
1051 1177 3      FS_NEXT (FS01),
1052 1178 3      .ECC [.OFFSET, ECC$H_DISPLAY_DESC]);
1053 1179 3
1054 1180 4      !Write the post-counter string, if any.
1055 1181 4      BEGIN
1056 1182 4      LOCAL
1057 1183 4      PTR,
1058 1184 4      LEN;
1059 1185 4      PTR = .ECC [.OFFSET, ECC$A_POST_PTR];
1060 1186 4      LEN = .ECC [.OFFSET, ECC$H_POST_LEN];

```

```

: 1061      1187  4      INCR I FROM 1 TO .LEN DO
: 1062      1188  4      FS_WCHAR (FS01, CH$RCHAR_A (PTR));
: 1063      1189  4
: 1064      1190  3      END;
: 1065      1191  3
: 1066      1192  2      END;
: 1067      1193  2      TES;
: 1068      1194  2
: 1069      1195  1      END;

```

! End of E/F/T counter processing.

!End of OUTCTR

```

.PSECT $PLITS$,NOWRT,NOEXE,2

00 65 6C 70 6D 61 78 45 00000 P.AAA: .ASCII \Example\<0>
00 45 4C 50 4D 41 58 45 00008 P.AAB: .ASCII \EXAMPLE\<0>
00 65 6C 70 6D 61 78 45 00010 P.AAC: .ASCII \Example\<0>
00 00 65 72 75 67 69 46 00018 P.AAD: .ASCII \Figure\<0><0>
00 00 45 52 55 47 49 46 00020 P.AAE: .ASCII \FIGURE\<0><0>
00 00 65 72 75 67 69 46 00028 P.AAF: .ASCII \Figure\<0><0>
00 00 00 65 6C 62 61 54 00030 P.AAG: .ASCII \Table\<0><0><0>
00 00 00 45 4C 42 41 54 00038 P.AAH: .ASCII \TABLE\<0><0><0>
00 00 00 65 6C 62 61 54 00040 P.AAI: .ASCII \Table\<0><0><0>
78 69 64 6E 65 70 70 41 00048 P.AAJ: .ASCII \Appendix\
58 49 44 4E 45 50 50 41 00050 P.AAK: .ASCII \APPENDIX\
78 69 64 6E 65 70 70 41 00058 P.AAL: .ASCII \Appendix\
00 72 65 74 70 61 68 43 00060 P.AAM: .ASCII \Chapter\<0>
00 52 45 54 50 41 48 43 00068 P.AAN: .ASCII \CHAPTER\<0>
00 72 65 74 70 61 68 43 00070 P.AAO: .ASCII \chapter\<0>

```

```

.PSECT $OWNS$,NOEXE,2
00030 OFFSET: .BLKB 4

```

```

.PSECT $CODE$,NOWRT,2
.ENTRY OUTCTR, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-
R11
5B 00000000G EF 9E 00002 MOVAB PACXXX, R11
5A 00000000G EF 9E 00009 MOVAB PAGEN, R10
59 00000000G EF 9E 00010 MOVAB ECC+20, R9
58 00000000G EF 9E 00017 MOVAB HLLIST+4, R8
57 00000000' EF 9E 0001E MOVAB OFFSET, R7
56 00000000' EF 9E 00025 MOVAB P.AAA, R6
55 00000000G EF 9E 0002C MOVAB FS01+4, R5
FC A5 08 A5 D4 00033 CLRL FS01+12
65 0C A5 9E 00036 MOVAB FS01+16, FS01
53 04 AC D0 0003B MOVL FS01, FS01+4
OF 7F 12 00043 MOVL HEADER_TYPE, R3
37 6A 93 00045 BNEQ 7$
55 DD 00048 BITB PAGEN, #15
5A DD 0004A BEQL 3$
02 FB 0004E PUSHL R5
PUSHL R10
CALLS #2, PACSEC

```

0845  
0881  
0883  
0886  
0889  
0893



|      |      |             |       |       |       |       |              |                     |                    |      |
|------|------|-------------|-------|-------|-------|-------|--------------|---------------------|--------------------|------|
|      | 08   | A5          | 50    | D0    | 00055 | MOVL  | R0, FS01+12  |                     |                    |      |
|      |      | 54          | 68    | D0    | 00059 | MOVL  | HLLIST+4, R4 |                     | 0895               |      |
|      |      |             | 52    | D4    | 0005C | CLRL  | I            |                     |                    |      |
|      |      |             | 1C    | 11    | 0005E | BRB   | 2\$          |                     |                    |      |
|      | 00   | B5          | 2E    | 90    | 00060 | 1\$:  | MOVB         | #46, @FS01+4        | 0897               |      |
|      |      |             | 65    | D6    | 00064 |       | INCL         | FS01+4              |                    |      |
|      |      | 08          | A5    | D6    | 00066 |       | INCL         | FS01+12             |                    |      |
|      |      | 00000000GEF | 42    | DD    | 00069 |       | PUSHL        | HLDSP-4[I]          | 0898               |      |
|      |      |             | 55    | DD    | 00070 |       | PUSHL        | R5                  |                    |      |
|      |      | 6842        | DD    | 00072 |       |       | PUSHL        | HLLIST+4[I]         |                    |      |
|      | 08   | 6B          | 03    | FB    | 00075 |       | CALLS        | #3, PACXXX          |                    |      |
|      |      | A5          | 50    | C0    | 00078 |       | ADDL2        | R0, FS01+12         |                    |      |
| E0   |      | 52          | 54    | F3    | 0007C | 2\$:  | AOBLEQ       | R4, I, 1\$          | 0895               |      |
|      |      |             |       | 04    | 00080 |       | RET          |                     | 0889               |      |
|      |      | 01          | 68    | D1    | 00081 | 3\$:  | CMPL         | HLLIST+4, #1        | 0904               |      |
|      |      |             | 13    | 12    | 00084 |       | BNEQ         | 4\$                 |                    |      |
|      |      | 00000000G   | EF    | DD    | 00086 |       | PUSHL        | HLDSP               | 0909               |      |
|      |      |             | 55    | DD    | 0008C |       | PUSHL        | R5                  |                    |      |
|      |      | 04          | A8    | DD    | 0008E |       | PUSHL        | HLLIST+8            |                    |      |
|      | 08   | 6B          | 03    | FB    | 00091 |       | CALLS        | #3, PACXXX          |                    |      |
|      |      | A5          | 50    | D0    | 00094 |       | MOVL         | R0, FS01+12         |                    |      |
|      |      |             |       | 04    | 00098 |       | RET          |                     | 0908               |      |
|      |      | 54          | 68    | D0    | 00099 | 4\$:  | MOVL         | HLLIST+4, R4        | 0914               |      |
|      |      |             | 52    | D4    | 0009C |       | CLRL         | I                   |                    |      |
|      |      |             | 1C    | 11    | 0009E |       | BRB          | 6\$                 |                    |      |
|      |      | 00000000GEF | 42    | DD    | 000A0 | 5\$:  | PUSHL        | HLDSP-4[I]          | 0916               |      |
|      |      |             | 55    | DD    | 000A7 |       | PUSHL        | R5                  |                    |      |
|      |      | 6842        | DD    | 000A9 |       |       | PUSHL        | HLLIST+4[I]         |                    |      |
|      | 08   | 6B          | 03    | FB    | 000AC |       | CALLS        | #3, PACXXX          |                    |      |
|      |      | A5          | 50    | C0    | 000AF |       | ADDL2        | R0, FS01+12         |                    |      |
|      | 00   | B5          | 2E    | 90    | 000B3 |       | MOVB         | #46, @FS01+4        | 0917               |      |
|      |      |             | 65    | D6    | 000B7 |       | INCL         | FS01+4              |                    |      |
|      |      | 08          | A5    | D6    | 000B9 |       | INCL         | FS01+12             |                    |      |
| E0   |      | 52          | 54    | F3    | 000BC | 6\$:  | AOBLEQ       | R4, I, 5\$          | 0914               |      |
|      |      |             | 08    | A5    | D7    |       | DECL         | FS01+12             | 0921               |      |
|      |      |             |       | 04    | 000C3 |       | RET          |                     | 0888               |      |
|      |      | 07          | 53    | D1    | 000C4 | 7\$:  | CMPL         | R3, #7              | 0928               |      |
|      |      |             | 1F    | 12    | 000C7 |       | BNEQ         | 13\$                |                    |      |
| 02   | 00   | 08          | AC    | CF    | 000C9 |       | CASEL        | HEADER CASE, #0, #2 | 0932               |      |
| 0011 | 000B | 0006        | 000CE | 8\$:  |       | .WORD | 9\$-8\$, -   |                     |                    |      |
|      |      |             |       |       |       |       | 10\$-8\$, -  |                     |                    |      |
|      |      |             |       |       |       |       | 11\$-8\$     |                     |                    |      |
|      |      | 52          | 66    | 9E    | 000D4 | 9\$:  | MOVAB        | P.AAA, ENTITY_TEXT  | 0950               |      |
|      |      |             | 0A    | 11    | 000D7 |       | BRB          | 12\$                |                    |      |
|      |      | 52          | 08    | A6    | 9E    | 000D9 | 10\$:        | MOVAB               | P.AAB, ENTITY_TEXT | 0951 |
|      |      |             | 04    | 11    | 000DD |       | BRB          | 12\$                |                    |      |
|      |      | 52          | 10    | A6    | 9E    | 000DF | 11\$:        | MOVAB               | P.AAC, ENTITY_TEXT | 0952 |
|      |      | 54          | 07    | D0    | 000E3 | 12\$: | MOVL         | #7, ENTITY_LEN      | 0965               |      |
|      |      |             | 67    | D4    | 000E6 |       | CLRL         | OFFSET              | 0967               |      |
|      |      | 0A          | 53    | D1    | 000E8 | 13\$: | CMPL         | R3, #10             | 0970               |      |
|      |      |             | 21    | 12    | 000EB |       | BNEQ         | 19\$                |                    |      |
| 02   | 00   | 08          | AC    | CF    | 000ED |       | CASEL        | HEADER CASE, #0, #2 | 0974               |      |
| 0012 | 000C | 0006        | 000F2 | 14\$: |       | .WORD | 15\$-14\$, - |                     |                    |      |
|      |      |             |       |       |       |       | 16\$-14\$, - |                     |                    |      |
|      |      |             |       |       |       |       | 17\$-14\$    |                     |                    |      |
|      |      | 52          | 18    | A6    | 9E    | 000F8 | 15\$:        | MOVAB               | P.AAD, ENTITY_TEXT | 0992 |
|      |      |             | 0A    | 11    | 000FC |       | BRB          | 18\$                |                    |      |

|      |      |      |    |    |       |       |       |                     |      |
|------|------|------|----|----|-------|-------|-------|---------------------|------|
|      | 52   | 20   | A6 | 9E | 000FE | 16\$: | MOVAB | P.AAE, ENTITY_TEXT  | 0993 |
|      |      |      | 04 | 11 | 00102 |       | BRB   | 18\$                |      |
|      | 52   | 28   | A6 | 9E | 00104 | 17\$: | MOVAB | P.AAF, ENTITY_TEXT  | 0994 |
|      | 54   |      | 06 | D0 | 00108 | 18\$: | MOVL  | #6, ENTITY_LEN      | 1008 |
|      | 67   |      | 01 | D0 | 0010B |       | MOVL  | #1, OFFSET          | 1010 |
|      | 0D   |      | 53 | D1 | 0010E | 19\$: | CMPL  | R3, #13             | 1013 |
|      |      |      | 21 | 12 | 00111 |       | BNEQ  | 25\$                |      |
| 02   | 00   | 08   | AC | CF | 00113 |       | CASEL | HEADER CASE, #0, #2 | 1017 |
| 0012 | 000C | 0006 |    |    | 0011B | 20\$: | .WORD | 21\$-20\$,-         |      |
|      |      |      |    |    |       |       |       | 22\$-20\$,-         |      |
|      |      |      |    |    |       |       |       | 23\$-20\$           |      |
|      | 52   | 30   | A6 | 9E | 0011E | 21\$: | MOVAB | P.AAG, ENTITY_TEXT  | 1035 |
|      |      |      | 0A | 11 | 00122 |       | BRB   | 24\$                |      |
|      | 52   | 38   | A6 | 9E | 00124 | 22\$: | MOVAB | P.AAH, ENTITY_TEXT  | 1036 |
|      |      |      | 04 | 11 | 00128 |       | BRB   | 24\$                |      |
|      | 52   | 40   | A6 | 9E | 0012A | 23\$: | MOVAB | P.AAI, ENTITY_TEXT  | 1037 |
|      | 54   |      | 05 | D0 | 0012E | 24\$: | MOVL  | #5, ENTITY_LEN      | 1050 |
|      | 67   |      | 02 | D0 | 00131 |       | MOVL  | #2, OFFSET          | 1052 |
|      | 13   |      | 53 | D1 | 00134 | 25\$: | CMPL  | R3, #19             | 1055 |
|      |      |      | 21 | 12 | 00137 |       | BNEQ  | 31\$                |      |
| 02   | 00   | 08   | AC | CF | 00139 |       | CASEL | HEADER CASE, #0, #2 | 1059 |
| 0012 | 000C | 0006 |    |    | 0013E | 26\$: | .WORD | 27\$-26\$,-         |      |
|      |      |      |    |    |       |       |       | 28\$-26\$,-         |      |
|      |      |      |    |    |       |       |       | 29\$-26\$           |      |
|      | 52   | 48   | A6 | 9E | 00144 | 27\$: | MOVAB | P.AAJ, ENTITY_TEXT  | 1077 |
|      |      |      | 0A | 11 | 00148 |       | BRB   | 30\$                |      |
|      | 52   | 50   | A6 | 9E | 0014A | 28\$: | MOVAB | P.AAK, ENTITY_TEXT  | 1078 |
|      |      |      | 04 | 11 | 0014E |       | BRB   | 30\$                |      |
|      | 52   | 58   | A6 | 9E | 00150 | 29\$: | MOVAB | P.AAL, ENTITY_TEXT  | 1079 |
|      | 54   |      | 08 | D0 | 00154 | 30\$: | MOVL  | #8, ENTITY_LEN      | 1093 |
|      | 67   |      | 0B | D0 | 00157 |       | MOVL  | #11, OFFSET         | 1095 |
|      | 10   |      | 53 | D1 | 0015A | 31\$: | CMPL  | R3, #16             | 1098 |
|      |      |      | 21 | 12 | 0015D |       | BNEQ  | 37\$                |      |
| 02   | 00   | 08   | AC | CF | 0015F |       | CASEL | HEADER CASE, #0, #2 | 1102 |
| 0012 | 000C | 0006 |    |    | 00164 | 32\$: | .WORD | 33\$-32\$,-         |      |
|      |      |      |    |    |       |       |       | 34\$-32\$,-         |      |
|      |      |      |    |    |       |       |       | 35\$-32\$           |      |
|      | 52   | 60   | A6 | 9E | 0016A | 33\$: | MOVAB | P.AAM, ENTITY_TEXT  | 1120 |
|      |      |      | 0A | 11 | 0016E |       | BRB   | 36\$                |      |
|      | 52   | 68   | A6 | 9E | 00170 | 34\$: | MOVAB | P.AAN, ENTITY_TEXT  | 1121 |
|      |      |      | 04 | 11 | 00174 |       | BRB   | 36\$                |      |
|      | 52   | 70   | A6 | 9E | 00176 | 35\$: | MOVAB | P.AAO, ENTITY_TEXT  | 1122 |
|      | 54   |      | 07 | D0 | 0017A | 36\$: | MOVL  | #7, ENTITY_LEN      | 1132 |
|      | 67   |      | 0A | D0 | 0017D |       | MOVL  | #10, OFFSET         | 1134 |
|      | 07   |      | 53 | D1 | 00180 | 37\$: | CMPL  | R3, #7              | 1137 |
|      |      |      | 15 | 13 | 00183 |       | BEQL  | 38\$                |      |
|      | 0A   |      | 53 | D1 | 00185 |       | CMPL  | R3, #10             |      |
|      |      |      | 10 | 13 | 00188 |       | BEQL  | 38\$                |      |
|      | 0D   |      | 53 | D1 | 0018A |       | CMPL  | R3, #13             |      |
|      |      |      | 0B | 13 | 0018D |       | BEQL  | 38\$                |      |
|      | 10   |      | 53 | D1 | 0018F |       | CMPL  | R3, #16             |      |
|      |      |      | 06 | 13 | 00192 |       | BEQL  | 38\$                |      |
|      | 13   |      | 53 | D1 | 00194 |       | CMPL  | R3, #19             |      |
|      |      |      | 01 | 13 | 00197 |       | BEQL  | 38\$                |      |
|      |      |      |    | 04 | 00199 |       | RET   |                     |      |
|      |      |      | 53 | D4 | 0019A | 38\$: | CLRL  | I                   | 1142 |
|      |      |      | 0A | 11 | 0019C |       | BRB   | 40\$                |      |



|    |      |           |    |    |       |       |       |        |                             |      |
|----|------|-----------|----|----|-------|-------|-------|--------|-----------------------------|------|
|    |      |           | 7E | 82 | 9A    | 0019E | 39\$: | MOVZBL | (ENTITY TEXT)+, -(SP)       | 1143 |
|    |      |           | EF | 01 | FB    | 001A1 |       | CALLS  | #1, ENDCHR                  |      |
|    | F2   | 00000000G | 53 | 54 | F3    | 001A8 | 40\$: | AOBLEQ | ENTITY_LEN, I, 39\$         |      |
|    |      |           |    | 7E | 7C    | 001AC |       | CLRL   | -(SP)                       | 1146 |
|    |      |           |    | 01 | DD    | 001AE |       | PUSHL  | #1                          |      |
|    |      | 00000000G | EF | 03 | FB    | 001B0 |       | CALLS  | #3, ENDWRD                  |      |
|    | 50   |           | 67 | 24 | C5    | 001B7 |       | MULL3  | #36, OFFSET, R0             | 1153 |
| 52 | 6940 |           | 20 | 18 | EF    | 001BB |       | EXTZV  | #24, #32, ECC+20[R0], PTR   |      |
|    |      |           |    | 01 | A940  | 9F    | 001C1 | PUSHAB | ECC+21[R0]                  | 1154 |
|    |      |           | 51 | 9E | 32    | 001C5 |       | CVTWL  | @(SP)+, LEN                 |      |
|    |      |           |    | 50 | D4    | 001C8 |       | CLRL   | I                           | 1156 |
|    |      |           |    | 09 | 11    | 001CA |       | BRB    | 42\$                        |      |
|    |      | 00        | B5 | 82 | 90    | 001CC | 41\$: | MOVB   | (PTR)+, @FS01+4             | 1157 |
|    |      |           |    | 65 | D6    | 001D0 |       | INCL   | FS01+4                      |      |
|    |      |           |    | 08 | A5    | D6    | 001D2 | INCL   | FS01+12                     |      |
|    | F3   |           | 50 | 51 | F3    | 001D5 | 42\$: | AOBLEQ | LEN, I, 41\$                | 1156 |
|    |      |           | 0A | 67 | D1    | 001D9 |       | CMPL   | OFFSET, #10                 | 1163 |
|    |      |           |    | 1D | 18    | 001DC |       | BGEQ   | 43\$                        |      |
|    |      |           | 0F | 6A | 93    | 001DE |       | BITB   | PAGEN, #15                  | 1165 |
|    |      |           |    | 18 | 13    | 001E1 |       | BEQL   | 43\$                        |      |
|    |      |           |    | 55 | DD    | 001E3 |       | PUSHL  | R5                          | 1168 |
|    |      |           |    | 5A | DD    | 001E5 |       | PUSHL  | R10                         |      |
|    |      | 00000000G | EF | 02 | FB    | 001E7 |       | CALLS  | #2, PACSEC                  |      |
|    |      | 08        | A5 | 50 | C0    | 001EE |       | ADDL2  | R0, FS01+12                 |      |
|    |      | 00        | B5 | 2D | 90    | 001F2 |       | MOVB   | #45, @FS01+4                | 1169 |
|    |      |           |    | 65 | D6    | 001F6 |       | INCL   | FS01+4                      |      |
|    |      |           |    | 08 | A5    | D6    | 001F8 | INCL   | FS01+12                     |      |
|    |      |           |    | 24 | C5    | 001FB | 43\$: | MULL3  | #36, OFFSET, R0             | 1177 |
| 7E | FC   | 50        | 67 | 18 | EE    | 001FF |       | EXTV   | #24, #16, ECC+16[R0], -(SP) |      |
|    |      |           | 10 | 55 | DD    | 00206 |       | PUSHL  | R5                          | 1176 |
| 7E | F8   | A940      | 20 | 18 | EE    | 00208 |       | EXTV   | #24, #32, ECC+12[R0], -(SP) | 1175 |
|    |      |           |    | 03 | FB    | 0020F |       | CALLS  | #3, PACXXX                  |      |
|    |      |           |    | 50 | C0    | 00212 |       | ADDL2  | R0, FS01+12                 |      |
|    |      | 08        | A5 | 24 | C5    | 00216 |       | MULL3  | #36, OFFSET, R0             | 1184 |
| 52 | 08   | 50        | 67 | 08 | EF    | 0021A |       | EXTZV  | #8, #32, ECC+28[R0], PTR    |      |
| 51 | 04   | A940      | 20 | 18 | EE    | 00221 |       | EXTV   | #24, #16, ECC+24[R0], LEN   | 1185 |
|    |      |           | 10 | 50 | D4    | 00228 |       | CLRL   | I                           | 1187 |
|    |      |           |    | 09 | 11    | 0022A |       | BRB    | 45\$                        |      |
|    |      |           |    | 82 | 90    | 0022C | 44\$: | MOVB   | (PTR)+, @FS01+4             | 1188 |
|    |      |           |    | 65 | D6    | 00230 |       | INCL   | FS01+4                      |      |
|    |      |           |    | 08 | A5    | D6    | 00232 | INCL   | FS01+12                     |      |
|    | F3   |           | 50 | 51 | F3    | 00235 | 45\$: | AOBLEQ | LEN, I, 44\$                | 1187 |
|    |      |           |    | 04 | 00239 |       |       | RET    |                             | 1195 |

; Routine Size: 570 bytes, Routine Base: \$CODE\$ + 05DC

; 1070 1196 1  
; 1071 1197 1 END  
; 1072 1198 0 ELUDOM

!End of module

PSECT SUMMARY

OUTHDR  
V04-000

O/P module for processing HEADER: figure, table  
Module Level Declarations

G 12  
16-Sep-1984 01:20:29  
14-Sep-1984 13:07:31

VAX-11 Bliss-32 V4.0-742  
[RUNOFF.SRC]OUTHDR.BLI;1

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(5)

| Name     | Bytes | Attributes                                                     |
|----------|-------|----------------------------------------------------------------|
| \$OWNS   | 52    | NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)   |
| \$CODES  | 2070  | NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)   |
| \$SPLITS | 120   | NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2) |

#### Library Statistics

| File                                  | -----<br>Total | Symbols<br>Loaded | -----<br>Percent | Pages<br>Mapped | Processing<br>Time |
|---------------------------------------|----------------|-------------------|------------------|-----------------|--------------------|
| \$255\$DUA28:[SYSLIB]XPORT.L32;1      | 590            | 0                 | 0                | 252             | 00:00.2            |
| \$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1 | 1248           | 133               | 10               | 86              | 00:00.3            |

#### COMMAND QUALIFIERS

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

Size: 2070 code + 172 data bytes  
Run Time: 00:45.6  
Elapsed Time: 01:41.5  
Lines/CPU Min: 1575  
Lexemes/CPU-Min: 18065  
Memory Used: 341 pages  
Compilation Complete



0346 AH-BT13A-SE  
VAX/VMS V4.0

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| NEWPAG<br>LIS | NODOPX<br>LIS | OFT<br>LIS    | OUTXT<br>LIS  |
| NDXURS<br>LIS | NOTE<br>LIS   | OUTLIN<br>LIS | PACK<br>LIS   |
| NM<br>LIS     | OUTXHR<br>LIS | OUTCHA<br>LIS | OUTHOR<br>LIS |
| NDXXTN<br>LIS |               |               |               |