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HH      HH      EEEEEEEEE  AAAAAA  DDDDDDD  EEEEEEEEE  RRRRRRR
HH      HH      EEEEEEEEE  AAAAAA  DDDDDDD  EEEEEEEEE  RRRRRRR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EEEEEEE  RRRRRRR
HH      HH      EE          AA      AA  DD      DD  EEEEEEE  RRRRRRR
HH      HH      EE          AAAAAAAAAA DD      DD  EE          RR      RR
HH      HH      EE          AAAAAAAAAA DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EE          AA      AA  DD      DD  EE          RR      RR
HH      HH      EEEEEEEEE  AA      AA  DDDDDDD  EEEEEEEEE  RR      RR
HH      HH      EEEEEEEEE  AA      AA  DDDDDDD  EEEEEEEEE  RR      RR

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```
1 0001 0 %TITLE 'HEADER -- handle headers (titles) for examples, figures, tables.'  
2 0002 0 MODULE header ( IDENT = 'V04-000'  
3 P 0003 0 %BLISS32 [ , ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,  
4 0004 0 NONEXTERNAL = LONG_RELATIVE)]  
5 0005 0 ) =  
6 0006 1 BEGIN  
7 0007 1  
8 0008 1 *****  
9 0009 1 *  
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY *  
11 0011 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. *  
12 0012 1 * ALL RIGHTS RESERVED. *  
13 0013 1 *  
14 0014 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED *  
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25 0025 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS *  
26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. *  
27 0027 1 *  
28 0028 1 *  
29 0029 1 *****  
30 0030 1  
31 0031 1  
32 0032 1 ++  
33 0033 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS  
34 0034 1  
35 0035 1 ABSTRACT:  
36 0036 1  
37 0037 1 Handles headers (titles) for examples, figures, tables.  
38 0038 1  
39 0039 1 ENVIRONMENT: Transportable  
40 0040 1  
41 0041 1 AUTHOR: Keith A. Dawson CREATION DATE: 18-April-1982  
42 0042 1
```

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44 0043 1 %SBTTL 'Revision History'
45 0044 1   MODIFIED BY:
46 0045 1
47 0046 1   016   KFA00016   Ken Alden   04-Aug-1983
48 0047 1   Added logic to prevent user from enabling a chapter
49 0048 1   or appendix if already in the type of page numbering
50 0049 1   scheme.
51 0050 1   Added handling for disable appendix.
52 0051 1
53 0052 1   015   KFA00015   Ken Alden   04-Aug-1983
54 0053 1   Because I replaced this module in CMS, this minor
55 0054 1   change makes it a new ident. Basically all I did
56 0055 1   was make the enable feature bump the page counters
57 0056 1   as actually doing a chapter/appendix would have done.
58 0057 1
59 0058 1   014   KFA00014   Ken Alden   03-Aug-1983
60 0059 1   Added the .DIS/ENABLE CHAPTER functionality.
61 0060 1
62 0061 1   013   RER00013   Ron Randall  7-Jul-1983
63 0062 1   Fixed footnote outputting bug.
64 0063 1
65 0064 1   012   RER00012   Ron Randall  14-Jun-1983
66 0065 1   Added logic to prevent HEADER from initiating a chapter
67 0066 1   or appendix until all pending footnotes are output.
68 0067 1
69 0068 1   011   KFA00011   Ken Alden   9-Jun-1983
70 0069 1   Fixed .NO CHAPTER bug by adding a RETURN statement.
71 0070 1
72 0071 1   010   KAD00010   Keith Dawson 18-May-1983
73 0072 1   Added support for FLIP Phase 1. Existing FLIP books were
74 0073 1   built using a DSRFLIP and BIND that have a 4-bit
75 0074 1   (STINY INTEGER) field for TOCTXT_CODE. This field is too
76 0075 1   small for new DSRPLUS table-of-contents data types. FLIP
77 0076 1   Phase 2 support will have to use new, not-yet-defined fields
78 0077 1   for these data types.
79 0078 1
80 0079 1   009   KFA00009   Ken Alden   3-May-1983
81 0080 1   Added the external calls for pagen and npagen.
82 0081 1
83 0082 1   008   REM00008   Ray Marshall April-1983
84 0083 1   Made many changes to allow chapters and appendices to be
85 0084 1   controlled from the ECC data structures for DSR as they have
86 0085 1   been for some time now for DSRPLUS. This was done to decouple
87 0086 1   these two forms of output from each other.
88 0087 1
89 0088 1   007   KFA00007   Ken Alden   28-Mar-1983
90 0089 1   Testpage amounts have now been refigured and when
91 0090 1   the user says "TP = 0" that is what they will get!
92 0091 1
93 0092 1   006   RER00006   Ron Randall  07-Mar-1983
94 0093 1   Global edit of all modules. Updated module names, idents,
95 0094 1   copyright dates. Changed require files to BLISS library.
96 0095 1   --
97 0096 1

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99 0097 1 %SBTTL 'Module Level Declarations'
100 0098 1
101 0099 1 : TABLE OF CONTENTS:
102 0100 1
103 0101 1 FORWARD ROUTINE
104 0102 1 header : NOVALUE, !Generates calls to OUTHDR for headers
105 0103 1 ! (counters/captions) of header levels,
106 0104 1 ! examples, figures, and tables.
107 0105 1 set_ecc : NOVALUE; !Sets values of some (common) OUTHDR formals.
108 0106 1
109 0107 1 : INCLUDE FILES:
110 0108 1
111 0109 1 LIBRARY 'NXPORT:XPORT'; ! XPORT Library
112 0110 1 REQUIRE 'REQ:RNODEF'; ! RUNOFF variant definitions
113 0241 1
114 U 0242 1 %IF DSRPLUS %THEN
115 U 0243 1 LIBRARY 'REQ:DPLLIB'; ! DSRPLUS BLISS Library
116 0244 1 %ELSE
117 0245 1 LIBRARY 'REQ:DSRLIB'; ! DSR BLISS Library
118 0246 1 %FI
119 0247 1
120 0248 1
121 0249 1 : OWN STORAGE:
122 0250 1
123 0251 1 OWN
124 0252 1 lines_before, lines_after, test_page_amount,
125 0253 1 counter_major_type, counter_minor_type,
126 0254 1 counter_value, counter_display_code, counter_spaces_after,
127 0255 1 counter_pre_string_length, counter_pre_string_ptr,
128 0256 1 counter_post_string_length, counter_post_string_ptr,
129 0257 1 caption_major_type, caption_minor_type, caption_case,
130 0258 1 caption_is_centered, caption_is_flush_right, caption_is_run_in,
131 0259 1 caption_is_bold, caption_is_underlined, put_into_mem_file,
132 0260 1 autosubtitle, brn_open, break_before_caption,
133 0261 1 lines_between, new_page, startodd,
134 0262 1 tocpage;
135 0263 1
136 0264 1 : EXTERNAL REFERENCES:
137 0265 1
138 0266 1 EXTERNAL LITERAL
139 0267 1 rnfim;
140 0268 1
141 0269 1 EXTERNAL
142 0270 1 ecc : Secc_blockvector,
143 0271 1 fnct : fnct_definition,
144 0272 1 gca : gca_definition,
145 0273 1 hct : hct_definition,
146 0274 1 hlc : hlc_definition,
147 0275 1 hllist : counted_list,
148 0276 1 ira : fixed_string,
149 0277 1 numprm : numprm_define,
150 0278 1
151 U 0279 1 %IF dsrplus %THEN
152 U 0280 1 npagen : page_definition,
153 U 0281 1 pagen : page_definition,
154 0282 1 %FI
155 0283 1

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: 156      0284 1      pdt      : ref pdt_definition,
: 157      0285 1      sca      : sca_definition;
: 158      0286 1
: 159      0287 1  EXTERNAL ROUTINE
: 160      0288 1      erma,
: 161      0289 1      outcha,
: 162      0290 1      outhdr,
: 163      0291 1      botpag,
: 164      0292 1      foobot,
: 165      0293 1      toppag,
: 166      0294 1
: 167      U 0295 1  %IF DSRPLUS %THEN
: 168      U 0296 1      puttpg,
: 169      0297 1  %FI
: 170      0298 1      skpsep;
: 171      0299 1
```

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173 0300 1 %SBTTL 'HEADER -- set up call to OUTHDR to generate (number and) header'
174 0301 1 GLOBAL ROUTINE header (handler) : NOVALUE =
175 0302 1
176 0303 1 |++
177 0304 1 | FUNCTIONAL DESCRIPTION:
178 0305 1 |
179 0306 1 |     HEADER sets up the formal arguments to call OUTHDR and generate a
180 0307 1 |     header (in the output and/or binary file) for .HEADER <any> commands,
181 0308 1 |     where <any> is LEVEL, EXAMPLE, FIGURE, or TABLE.
182 0309 1 |
183 0310 1 | FORMAL PARAMETERS:
184 0311 1 |
185 0312 1 |     handler - Defines which sort of header is to be generated.
186 0313 1 |
187 0314 1 | IMPLICIT INPUTS:      None
188 0315 1 |
189 0316 1 | IMPLICIT OUTPUTS:    None
190 0317 1 |
191 0318 1 | ROUTINE VALUE:
192 0319 1 | COMPLETION CODES:    None
193 0320 1 |
194 0321 1 | SIDE EFFECTS:        None
195 0322 1 | --
196 0323 1 |
197 0324 2 | BEGIN
198 0325 2 |
199 0326 2 |     Preset those OUTHDR formals that are common,
200 0327 2 |     or that are not yet implemented.
201 0328 2 |
202 0329 2 |     counter_major_type = maj_runoff;
203 0330 2 |     caption_major_type = maj_runoff;
204 0331 2 |     put_into_mem_file = true;           ! NYI!!**DEBUG**!!
205 0332 2 |     brn_open = .gca_btc;
206 0333 2 |
207 0334 2 | SELECT .handler OF
208 0335 2 |     SET
209 0336 2 |
210 0337 2 |     [h_header_level, h_set_level] :
211 0338 2 |     |
212 0339 2 |     |     Process the number given as a parameter on the .HL or
213 0340 2 |     |
214 0341 2 |     | BEGIN
215 0342 2 |     |
216 0343 2 |     |     .SET LEVEL command
217 0344 2 |     |
218 0345 2 |     |     IF .num_sign NEQ 0
219 0346 2 |     |     THEN
220 0347 2 |     |     |
221 0348 2 |     |     |     Process a relative header level.
222 0349 2 |     |     |
223 0350 2 |     |     |     num_value = .hllist [cl_index] + .num_value
224 0351 2 |     |     ELSE
225 0352 2 |     |     |
226 0353 2 |     |     |     IF .num_length EQL 0
227 0354 2 |     |     |     THEN
228 0355 2 |     |     |     |
229 0356 2 |     |     |     |     Continue on at same level.
  
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0357      !
0358      num_value = .hllist [cl_index];
0359
0360      !
0361      Validate resultant header level.
0362
0363      IF (.num_value LEQ 0) OR
0364         (.num_value GTR .hllist [cl_max_index])
0365      THEN
0366
0367         !
0368         Illegal header number.
0369
0370         BEGIN
0371         erma (rnfinm, false);
0372
0373         !
0374         Stay at current level.
0375
0376         num_value = .hllist [cl_index];
0377         END;
0378
0379      END;
0380
0381      [h_header_level] :
0382
0383         !
0384         Bump counter at specified level.
0385
0386         BEGIN
0387         hllist [.num_value] = .hllist [.num_value] + 1;
0388
0389         !
0390         Zero all higher numbered counters.
0391
0392         INCR I FROM (.num_value + 1) TO .hllist [cl_max_index] DO
0393         hllist [.I] = 0;
0394
0395         END;
0396
0397      [h_header_level, h_set_level] :
0398
0399         !
0400         Set desired level.
0401
0402         hllist [cl_index] = .num_value;
0403
0404      [h_set_level] : RETURN;
0405
0406      [h_header_level] :
0407      BEGIN
0408      BIND
0409      style_block = ecc [hcoll_offset + .hllist [cl_index], 0,0,0,0]
0410      : $ecc_block;
0411
0412      counter_minor_type = min_hl_inf;
0413      caption_minor_type =
0414      (IF .style_block [ecc$v_unnumbered]
0415      THEN
0416      min_hl_txt_u
0417      ELSE
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min_hl_txt);
set_ecc (.handler, style_block);
END;
%IF DSRPLUS %THEN
[h_header_examp] :
BEGIN
BIND
style_block = ecc [examp_offset, 0,0,0,0] : $ecc_block;

counter_minor_type = min_examp_inf;
caption_minor_type =
(IF .style_block [ecc$v_unnumbered]
THEN
min_examp_txt_u
ELSE
min_examp_txt);

set_ecc (.handler, style_block);
END;

[h_header_figure] :
BEGIN
BIND
style_block = ecc [figur_offset, 0,0,0,0] : $ecc_block;

counter_minor_type = min_figur_inf;
caption_minor_type =
(IF .style_block [ecc$v_unnumbered]
THEN
min_figur_txt_u
ELSE
min_figur_txt);

set_ecc (.handler, style_block);
END;

[h_header_table] :
BEGIN
BIND
style_block = ecc [table_offset, 0,0,0,0] : $ecc_block;

counter_minor_type = min_table_inf;
caption_minor_type =
(IF .style_block [ecc$v_unnumbered]
THEN
min_table_txt_u
ELSE
min_table_txt);

set_ecc (.handler, style_block);
END;
%FI

[h_chapter] :
BEGIN

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344 0471 3 RIND
345 0472 3 style_block = ecc [chap_offset, 0,0,0,0] : $ecc_block;
346 0473 3
347 0474 3 counter_minor_type = min_chapt_inf;
348 0475 3 caption_minor_type =
349 0476 3 (IF .style_block [ecc$v_unnumbered]
350 0477 3 THEN
351 0478 3 min_chapt_txt_u
352 0479 3 ELSE
353 0480 3 min_chapt_txt);
354 0481 3
355 0482 3 ! ** This code is needed for FLIP Phase 1 support.
356 U 0483 3 %IF FLIP %THEN
357 UU 0484 3 IF (.gca_op_dev EQL op_dev_flip)
358 UU 0485 3 THEN
359 U 0486 3 caption_minor_type = min_chapt;
360 0487 3 %FI
361 0488 3 ! **
362 0489 3
363 0490 3 set_ecc (.handler, style_block);
364 0491 3 END;
365 0492 3
366 U 0493 3 %IF DSRPLUS %THEN
367 UU 0494 3 [h_no_chapter, h_disable_chapt, h_disable_appen] :
368 UU 0495 3 BEGIN
369 UU 0496 3 gca_chapt = false; ! Turn off chapter oriented-ness.
370 UU 0497 3 npagen [sct_typ] = 0; ! Normal page numbers
371 UU 0498 3 pagen [sct_typ] = 0; ! Normal page numbers
372 UU 0499 3
373 UU 0500 3 IF .gca_btc
374 UU 0501 3 THEN
375 UU 0502 3
376 UU 0503 3 %IF FLIP %THEN
377 UU 0504 3 puttpg (pagen, flip$k_tocpag);
378 UU 0505 3 %ELSE
379 UU 0506 3 puttpg (pagen, -1);
380 UU 0507 3 %FI
381 UU 0508 3
382 UU 0509 3 RETURN;
383 UU 0510 3 END;
384 UU 0511 3
385 UU 0512 3 [h_enable_append] :
386 UU 0513 3 BEGIN
387 UU 0514 3 IF .pagen [sct_typ] EQL sct_append ! Already in an Appendix
388 UU 0515 3 THEN
389 UU 0516 3 RETURN;
390 UU 0517 3 gca_chapt = true; ! Turn off chapter oriented-ness.
391 UU 0518 3 npagen [sct_typ] = sct_append; ! Normal page numbers
392 UU 0519 3 pagen [sct_typ] = sct_append; ! Normal page numbers
393 UU 0520 3 pagen [sct_number] = .ecc [append_offset, ecc$h_counter] + 1;
394 UU 0521 3 npagen [sct_number] = .ecc [append_offset, ecc$h_counter] + 1;
395 UU 0522 3 IF .gca_btc
396 UU 0523 3 THEN
397 UU 0524 3
398 UU 0525 3 %IF FLIP %THEN
399 UU 0526 3 puttpg (pagen, flip$k_tocpag);
400 U 0527 3 %ELSE

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401      U 0528      2      puttpg (pagen, -1);
402      U 0529      2      %FI
403      U 0530      2
404      U 0531      2      RETURN;
405      U 0532      2      END;
406      U 0533      2
407      U 0534      2      [h_enable_chapte] :
408      U 0535      2      BEGIN
409      U 0536      2      IF .pagen [sct_typ] EQL sct_chapt ! Already in a Chapter
410      U 0537      2      THEN
411      U 0538      2      RETURN;
412      U 0539      2      gca_chapt = true; ! turn off chapter oriented-ness.
413      U 0540      2      npagen [sct_typ] = sct_chapt; ! Normal page numbers
414      U 0541      2      pagen [sct_typ] = sct_chapt; ! Normal page numbers
415      U 0542      2      pagen [sct_number] = .ecc [chap_offset,ecc$h_counter] + 1;
416      U 0543      2      npagen [sct_number] = .ecc [chap_offset,ecc$h_counter] + 1;
417      U 0544      2      IF .gca_btc
418      U 0545      2      THEN
419      U 0546      2
420      U 0547      2      %IF FLIP %THEN
421      U 0548      2      puttpg (pagen, flip$k_tocpag);
422      U 0549      2      %ELSE
423      U 0550      2      puttpg (pagen, -1);
424      U 0551      2      %FI
425      U 0552      2
426      U 0553      2      RETURN;
427      U 0554      2      END;
428      U 0555      2      %FI
429      U 0556      2
430      U 0557      2      [h_appendix] :
431      U 0558      2      BEGIN
432      U 0559      2      BIND
433      U 0560      2      style_block = ecc [append_offset, 0,0,0,0] : $ecc_block;
434      U 0561      2
435      U 0562      2      counter_minor_type = min_append_inf;
436      U 0563      2      caption_minor_type =
437      U 0564      2      (IF .style_block [ecc$v_unnumbered]
438      U 0565      2      THEN
439      U 0566      2      min_append_txt_u
440      U 0567      2      ELSE
441      U 0568      2      min_append_txt);
442      U 0569      2
443      U 0570      2      ! ** This code is needed for FLIP Phase 1 support.
444      U 0571      2      %IF FLIP %THEN
445      U 0572      2      IF (.gca_op_dev EQL op_dev_flip)
446      U 0573      2      THEN
447      U 0574      2      caption_minor_type = min_append;
448      U 0575      2      %FI
449      U 0576      2      ! **
450      U 0577      2
451      U 0578      2      set_ecc (.handler, style_block);
452      U 0579      2      END;
453      U 0580      2
454      U 0581      2      TES;
455      U 0582      2
456      U 0583      2      !
457      U 0584      2      ! Skip any spaces, tabs, or commas in the input.
    
```

```

458 0585 !
459 0586 skpsep (ira);
460 0587
461 0588 IF (.handler EQL h_chapter) OR (.handler EQL h_appendix)
462 0589 THEN
463 0590 BEGIN
464 0591
465 0592     Loop over all remaining footnotes.
466 0593
467 0594 WHILE .fnct_count GTR 0 DO
468 0595 BEGIN
469 0596
470 0597     Get rid of as many footnotes as possible.
471 0598
472 0599     foobot ();
473 0600
474 0601     Finish the bottom of the page except for last one,
475 0602     which is taken care of by OUTCHA.
476 0603
477 0604 IF .fnct_count GTR 0
478 0605 THEN
479 0606 BEGIN
480 0607     botpag ();
481 0608
482 0609     Because not all footnotes were output, we have to
483 0610     start a new page, and keep trying.
484 0611
485 0612     toppag ();
486 0613 END;
487 0614
488 0615 END;
489 0616
490 0617 outcha (
491 0618     .lines_before,          .lines_after,          .test_page_amount,
492 0619     .counter_major_type,   .counter_minor_type,
493 0620     .counter_value,       .counter_display_code, .counter_spaces_after,
494 0621     .counter_pre_string_length, .counter_pre_string_ptr,
495 0622     .counter_post_string_length, .counter_post_string_ptr,
496 0623     .caption_major_type,  .caption_minor_type,  .caption_case,
497 0624     .caption_is_centered, .caption_is_flush_right, .caption_is_run_in,
498 0625     .caption_is_bold,    .caption_is_underlined, .put_into_mem_file,
499 0626     .autosubtitle,      .brn_open,            .break_before_caption,
500 0627     .lines_between,     .new_page,            .startodd,
501 0628     .tocpage
502 0629 );
503 0630 END
504 0631 ELSE
505 0632 BEGIN
506 0633 outhdr (
507 0634     .lines_before,          .lines_after,          .test_page_amount,
508 0635     .counter_major_type,   .counter_minor_type,
509 0636     .counter_value,       .counter_display_code, .counter_spaces_after,
510 0637     .counter_pre_string_length, .counter_pre_string_ptr,
511 0638     .counter_post_string_length, .counter_post_string_ptr,
512 0639     .caption_major_type,  .caption_minor_type,  .caption_case,
513 0640     .caption_is_centered, .caption_is_flush_right, .caption_is_run_in,
514 0641     .caption_is_bold,    .caption_is_underlined, .put_into_mem_file,

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: 515      0642      3      .autosubtitle,      .brn_open,      .break_before_caption,
: 516      0643      3      .lines_between,      .new_page,      .startodd,
: 517      0644      3      .tocpage
: 518      0645      3      );
: 519      0646      3      END;
: 520      0647      3
: 521      0648      3      +
: 522      0649      3      Post-processing after the header has been generated.
: 523      0650      3      -
: 524      0651      3      SELECT .handler OF
: 525      0652      3      SET
: 526      0653      3
: 527      0654      3      [h_header_level] :
: 528      0655      3      BEGIN
: 529      0656      3
: 530      0657      3      Turn fill on if AUTOJUST, else leave it the way it was.
: 531      0658      3
: 532      0659      3      sca_fill = (.gca_autojust OR .sca_fill);
: 533      0660      3
: 534      0661      3      Turn justify on if AUTOJUST, else leave it the way it was.
: 535      0662      3
: 536      0663      3      sca_justify = (.gca_autojust OR .sca_justify);
: 537      0664      3      sca_crock = .gca_autojust;
: 538      0665      3      END;
: 539      0666      3
: 540      U 0667      3      %IF DSRPLUS %THEN
: 541      U 0668      3      [h_header_exempl] : 0;
: 542      U 0669      3      [h_header_figure] : 0;
: 543      U 0670      3      [h_header_table] : 0;
: 544      U 0671      3      [h_no_chapter] : 0;
: 545      0672      3      %FI
: 546      0673      3
: 547      0674      3      [h_appendix] : 0;
: 548      0675      3      [h_chapter] : 0;
: 549      0676      3
: 550      0677      3      TES;
: 551      0678      3
: 552      0679      3      END;      ! End of HEADER

      .TITLE  HEADER HEADER -- handle headers (titles) for ex
      .IDENT  \V04-000\
      .PSECT  $OWNS,NOEXE,2

      00000 LINES_BEFORE:
      .BLKB  4
      00004 LINES_AFTER:
      .BLKB  4
      00008 TEST_PAGE_AMOUNT:
      .BLKB  4
      0000C COUNTER_MAJOR_TYPE:
      .BLKB  4
      00010 COUNTER_MINOR_TYPE:
      .BLKB  4
      00014 COUNTER_VALUE:

```

```

00018 COUNTER_DISPLAY_CODE: .BLKB 4
0001C COUNTER_SPACES_AFTER: .BLKB 4
00020 COUNTER_PRE_STRING_LENGTH: .BLKB 4
00024 COUNTER_PRE_STRING_PTR: .BLKB 4
00028 COUNTER_POST_STRING_LENGTH: .BLKB 4
0002C COUNTER_POST_STRING_PTR: .BLKB 4
00030 CAPTION_MAJOR_TYPE: .BLKB 4
00034 CAPTION_MINOR_TYPE: .BLKB 4
00038 CAPTION_CASE: .BLKB 4
0003C CAPTION_IS_CENTERED: .BLKB 4
00040 CAPTION_IS_FLUSH_RIGHT: .BLKB 4
00044 CAPTION_IS_RUN_IN: .BLKB 4
00048 CAPTION_IS_BOLD: .BLKB 4
0004C CAPTION_IS_UNDERLINED: .BLKB 4
00050 PUT_INTO_MEM_FILE: .BLKB 4
00054 AUTOSUBTITLE: .BLKB 4
00058 BRN_OPEN: .BLKB 4
0005C BREAK_BEFORE_CAPTION: .BLKB 4
00060 LINES_BETWEEN: .BLKB 4
00064 NEW_PAGE: .BLKB 4
00068 STARTODD: .BLKB 4
0006C TOCPAGE: .BLKB 4

```

```

.EXTRN RNFNM, ECC, FNCT
.EXTRN GCA, HCT, HLC, HLLIST
.EXTRN IRA, NUMPRM, PDT
.EXTRN SCA, ERMA, OUTCHA
.EXTRN OUTHDR, BOTPAG, FOOBOT
.EXTRN TOPPAG, SKPSEP

```

.PSECT \$CODE\$,NOWRT,2

```

03FC 0000
59 00000000G EF 9E 00002
58 00000000G EF 9E 00009

```

```

.ENTRY HEADER, Save R2,R3,R4,R5,R6,R7,R8,R9
MOVAB FNCT, R9
MOVAB SCA+104, R8

```

: 0301
:
:

		57	00000000V	EF	9E	00010	MOVAB	SET ECC, R7	
		56	00000000G	EF	9E	00017	MOVAB	ECC+108, R6	
		55	00000000G	EF	9E	0001E	MOVAB	NUMPRM+4, R5	
		54	00000000G	EF	9E	00025	MOVAB	HLLIST+4, R4	
		53	00000000'	EF	9E	0002C	MOVAB	COUNTER MINOR TYPE, R3	
	FC	A3		02	D0	00033	MOVL	#2, COUNTER MAJOR TYPE	0329
	20	A3		02	D0	00037	MOVL	#2, CAPTION MAJOR TYPE	0330
	40	A3		01	70	0003B	MOVL	#1, PUT INTO MEM FILE	0331
48	A3	00000000G	EF	01	00	EF 0003F	EXTZV	#0, #1, GCA+T24, BRN_OPEN	0332
		00000061		52	04	AC D0 00049	MOVL	HANDLER, R2	0334
				8F		52 D1 0004D	CMPL	R2, #97	0337
		000000B8		8F		09 13 00054	BEQL	1\$	
						52 D1 00056	CMPL	R2, #184	
						2F 12 0005D	BNEQ	5\$	
					04	A5 D5 0005F 1\$:	TSTL	NUMPRM+8	0345
						05 13 00062	BEQL	2\$	
		65				64 C0 00064	ADDL2	HLLIST+4, NUMPRM+4	0350
						08 11 00067	BRB	3\$	
					08	A5 D5 00069 2\$:	TSTL	NUMPRM+12	0353
						03 12 0006C	BNEQ	3\$	
		65				64 D0 0006E	MOVL	HLLIST+4, NUMPRM+4	0358
		50				65 D0 00071 3\$:	MOVL	NUMPRM+4, R0	0363
						06 15 00074	BLEQ	4\$	
	FC	A4				50 D1 00076	CMPL	R0, HLLIST	0364
						12 15 0007A	BLEQ	5\$	
						7E D4 0007C 4\$:	CLRL	-(SP)	0370
		00000000G	EF	02	DD	0007E	PUSHL	#RNFIM	
						64 D0 0008B	CALLS	#2, ERMA	
		00000061	8F	52	D1	0008E 5\$:	MOVL	HLLIST+4, NUMPRM+4	0374
						13 12 00095	CMPL	R2, #97	0379
						65 D0 00097	BNEQ	8\$	
		50				6440 D6 0009A	MOVL	NUMPRM+4, R0	0384
					FC	A4 D0 0009D	INCL	HLLIST+4[R0]	
						03 11 000A1	MOVL	HLLIST, R1	0389
						6440 D4 000A3 6\$:	BRB	7\$	
						51 F3 000A6 7\$:	CLRL	HLLIST+4[I]	0390
F9		00000061	8F	52	D1	000AA 8\$:	AOBLEQ	R1, I, 6\$	
						09 13 000B1	CMPL	R2, #97	0394
		000000B8	8F	52	D1	000B3	BEQL	9\$	
						03 12 000BA	CMPL	R2, #184	
						65 D0 000BC 9\$:	BNEQ	10\$	
		000000B8	8F	52	D1	000BF 10\$:	MOVL	NUMPRM+4, HLLIST+4	0398
						01 12 000C6	CMPL	R2, #184	0400
						04 000C8	BNEQ	11\$	
		00000061	8F	52	D1	000C9 11\$:	RET		
						1F 12 000D0	CMPL	R2, #97	0402
		50				24 C5 000D2	BNEQ	14\$	
						63 D4 000D6	MULL3	#36, HLLIST+4, R0	0405
		05	6640			02 E1 000D8	CLRL	COUNTER MINOR TYPE	0408
						06 D0 000DD	BBC	#2, ECC+108[R0], 12\$	0410
						03 11 000E0	MOVL	#6, R1	
						02 D0 000E2 12\$:	BRB	13\$	
		24	A3			51 D0 000E5 13\$:	MOVL	#2, R1	
						6640 9F 000E9	MOVL	R1, CAPTION MINOR TYPE	
						52 DD 000EC	PUSHAB	ECC+108[R0]	0416
						02 FB 000EE	PUSHL	R2	
							CALLS	#2, SET_ECC	

		0D		52	D1	000F1	14\$:	CMPL	R2, #13	0469
				1E	12	000F4		BNEQ	17\$	
05	00FC	63		10	D0	000F5		MOVL	#16, COUNTER_MINOR_TYPE	0474
		C6		02	E1	000F9		BBC	#2, STYLE_BLOCK, 15\$	0476
		50		12	D0	000FF		MOVL	#18, R0	
				03	11	00102		BRB	16\$	
		50		11	D0	00104	15\$:	MOVL	#17, R0	
	24	A3		50	D0	00107	16\$:	MOVL	R0, CAPTION_MINOR_TYPE	
			00FC	C6	9F	0010B		PUSHAB	STYLE_BLOCK	0490
				52	DD	0010F		PUSHL	R2	
		67		02	FB	00111		CALLS	#2, SET_ECC	
		01		52	D1	00114	17\$:	CMPL	R2, #1	0557
				1E	12	00117		BNEQ	20\$	
05	0120	63		13	D0	00119		MOVL	#19, COUNTER_MINOR_TYPE	0562
		C6		02	E1	0011C		BBC	#2, STYLE_BLOCK, 18\$	0564
		50		15	D0	00122		MOVL	#21, R0	
				03	11	00125		BRB	19\$	
		50		14	D0	00127	18\$:	MOVL	#20, R0	
	24	A3		50	D0	0012A	19\$:	MOVL	R0, CAPTION_MINOR_TYPE	
			0120	C6	9F	0012E		PUSHAB	STYLE_BLOCK	0578
				52	DD	00132		PUSHL	R2	
		67		02	FB	00134		CALLS	#2, SET_ECC	
			00000000G	EF	9F	00137	20\$:	PUSHAB	IRA	0586
		EF		01	FB	0013D		CALLS	#1, SKPSEP	
		0D		52	D1	00144		CMPL	R2, #13	0588
				05	13	00147		BEQL	21\$	
		01		52	D1	00149		CMPL	R2, #1	
				5F	12	0014C		BNEQ	23\$	
				69	D5	0014E	21\$:	TSTL	FNCT	0594
				1B	15	00150		BLEQ	22\$	
		00000000G	EF	00	FB	00152		CALLS	#0, OOBOT	0599
				69	D5	00159		TSTL	FNCT	0604
				F1	15	0015B		BLEQ	21\$	
		00000000G	EF	00	FB	0015D		CALLS	#0, BOTPAG	0607
		00000000G	EF	00	FB	00164		CALLS	#0, TOPPAG	0612
				E1	11	0016B		BRB	21\$	0594
		7E	58	A3	7D	0016D	22\$:	MOVQ	STARTODD, -(SP)	0627
		7E	50	A3	7D	00171		MOVQ	LINES_BETWEEN, -(SP)	
		7E	48	A3	7D	00175		MOVQ	BRN_OPEN, -(SP)	0626
		7E	40	A3	7D	00179		MOVQ	PUT_INTO_MEM_FILE, -(SP)	0625
		7E	38	A3	7D	0017D		MOVQ	CAPTION_IS_BOLD, -(SP)	
		7E	30	A3	7D	00181		MOVQ	CAPTION_IS_FLUSH_RIGHT, -(SP)	0624
		7E	28	A3	7D	00185		MOVQ	CAPTION_CASE, -(SP)	0623
		7E	20	A3	7D	00189		MOVQ	CAPTION_MAJOR_TYPE, -(SP)	
		7E	18	A3	7D	0018D		MOVQ	COUNTER_POST_STRING_LENGTH, -(SP)	0622
		7E	10	A3	7D	00191		MOVQ	COUNTER_PRE_STRING_LENGTH, -(SP)	0621
		7E	08	A3	7D	00195		MOVQ	COUNTER_DISPLAY_CODE, -(SP)	0620
		7E		63	7D	00199		MOVQ	COUNTER_MINOR_TYPE, -(SP)	0619
		7E	F8	A3	7D	0019C		MOVQ	TEST_PAGE_AMOUNT, -(SP)	0618
		7E	F0	A3	7D	001A0		MOVQ	LINES_BEFORE, -(SP)	
			00000000G	EF	1C	FB	001A4	CALLS	#28, OUTCHA	
				3E	11	001AB		BRB	24\$	0588
		7E	58	A3	7D	001AD	23\$:	MOVQ	STARTODD, -(SP)	0643
		7E	50	A3	7D	001B1		MOVQ	LINES_BETWEEN, -(SP)	
		7E	48	A3	7D	001B5		MOVQ	BRN_OPEN, -(SP)	0642
		7E	40	A3	7D	001B9		MOVQ	PUT_INTO_MEM_FILE, -(SP)	0641
		7E	38	A3	7D	001BD		MOVQ	CAPTION_IS_BOLD, -(SP)	

HEADER
V04-000

C 11
HEADER -- handle headers (titles) for examples, 16-Sep-1984 00:44:00
HEADER -- set up call to OUTHDR to generate (nu 14-Sep-1984 13:06:41

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

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IFI
V04

7E	30	A3	7D	001C1	MOVQ	CAPTION_IS_FLUSH_RIGHT, -(SP)	:	0640
7E	28	A3	7D	001C5	MOVQ	CAPTION_CASE, -(SP)	:	0639
7E	20	A3	7D	001C9	MOVQ	CAPTION_MAJOR_TYPE, -(SP)	:	
7E	18	A3	7D	001CD	MOVQ	COUNTER_POST_STRING_LENGTH, -(SP)	:	0638
7E	10	A3	7D	001D1	MOVQ	COUNTER_PRE_STRING_LENGTH, -(SP)	:	0637
7E	08	A3	7D	001D5	MOVQ	COUNTER_DISPLAY_CODE, -(SP)	:	0636
7E		63	7D	001D9	MOVQ	COUNTER_MINOR_TYPE, -(SP)	:	0635
7E	F8	A3	7D	001DC	MOVQ	TEST_PAGE_AMOUNT, -(SP)	:	0634
7E	F0	A3	7D	001E0	MOVQ	LINES_BEFORE, -(SP)	:	
00000000G	EF	1C	FB	001E4	CALLS	#28, OUTHDR	:	
00000061	8F		52	D1	001EB	R2, #97	:	0654
			13	12	001F2	25\$:	
	50	00000000G	FF	D0	001F4	MOVL	@GCA+16, R0	0659
00	BB		50	C8	001FB	BISL2	R0, @SCA+104	
FC	BB		50	C8	001FF	BISL2	R0, @SCA+100	0663
08	BB		50	D0	00203	MOVL	R0, @SCA+112	0664
			04	00207	25\$:	RET	:	0679

: Routine Size: 520 bytes, Routine Base: \$CODE\$ + 0000

: 553 0680 1

```

555 0681 1 %SBTTL 'SET_ECC -- set up OUTHDR formals from the ECC area'
556 0682 1 ROUTINE set_ecc (handler, style_block) : NOVALUE =
557 0683 1
558 0684 1 +-
559 0685 1 FUNCTIONAL DESCRIPTION:
560 0686 1
561 0687 1     SET_ECC sets the values of the formal parameters in a call to OUTHDR:
562 0688 1     the ones that are stored in the ECC (Entity Counter/Caption) area.
563 0689 1
564 0690 1 FORMAL PARAMETERS:
565 0691 1
566 0692 1     handler -      Indicates what command is being processed.
567 0693 1
568 0694 1     style_block -  The address of that segment of the ECC blockvector
569 0695 1     that will be used to update the OUTHDR formals.
570 0696 1
571 0697 1 IMPLICIT INPUTS:      None
572 0698 1
573 0699 1 IMPLICIT OUTPUTS:
574 0700 1
575 0701 1     The following module-level OWN variables, used as OUTHDR formals,
576 0702 1     are updated:
577 0703 1
578 0704 1     lines_before,      lines_after,      test_page_amount,
579 0705 1     counter_major_type, counter_minor_type,
580 0706 1     counter_value,     counter_display_code, counter_spaces_after,
581 0707 1     counter_pre_string_length, counter_pre_string_ptr,
582 0708 1     counter_post_string_length, counter_post_string_ptr,
583 0709 1     caption_major_type, caption_minor_type, caption_case,
584 0710 1     caption_is_centered, caption_is_flush_right, caption_is_run_in,
585 0711 1     caption_is_bold,   caption_is_underlined, put_into_mem_file,
586 0712 1     autosubtitle,     brn_open,             break_before_caption,
587 0713 1     lines_between,    new_page,             startodd,
588 0714 1     tocpage
589 0715 1
590 0716 1 ROUTINE VALUE:
591 0717 1 COMPLETION CODES:      None
592 0718 1
593 0719 1 SIDE EFFECTS:          None
594 0720 1 --
595 0721 1
596 0722 2 BEGIN
597 0723 2 BIND
598 0724 2     sb = .style_block : $ecc_block;
599 0725 2
600 0726 2     |
601 0727 2     | Increment the entity counter.
602 0728 2     |
603 0729 2     sb [ecc$h_counter] = .sb [ecc$h_counter] + 1;
604 0730 2     lines_before =
605 0731 4     (IF (.sb [ecc$h_before] GTR 0) AND (NOT .sca_sect_empty)
606 0732 3     THEN
607 0733 4     (MAX (1, .sb [ecc$h_before] - (.sca_spacing - 1)))
608 0734 2     ELSE 0);
609 0735 2
610 0736 2     lines_between = .sb [ecc$h_between];
611 0737 2     lines_after =
  
```

```

: 612 0738 3      (IF .sb [ecc$h_after] GTR 0
: 613 0739 3      THEN
: 614 0740 4      (MAX (1, .sb [ecc$h_after] - (.sca_spacing - 1)))
: 615 0741 2      ELSE 0);
: 616 0742 2
: 617 0743 3      IF (.handler EQL h_chapter) OR (.handler EQL h_appendix)
: 618 0744 2      THEN
: 619 0745 2      BEGIN
: 620 0746 3      lines_before = .sb [ecc$h_before];
: 621 0747 3      lines_after = .sb [ecc$h_after];
: 622 0748 2      END;
: 623 0749 2
: 624 0750 2      test_page_amount = .sb [ecc$h_testpage];
: 625 0751 2      counter_value = .sb [ecc$h_counter];
: 626 0752 2      counter_display_code = .sb [ecc$h_display_desc];
: 627 0753 2      counter_spaces_after = .sb [ecc$h_spaces];
: 628 0754 2      counter_pre_string_length = .sb [ecc$h_pre_len];
: 629 0755 2      counter_pre_string_ptr = .sb [ecc$a_pre_ptr];
: 630 0756 2      counter_post_string_length = .sb [ecc$h_post_len];
: 631 0757 2      counter_post_string_ptr = .sb [ecc$a_post_ptr];
: 632 0758 2      caption_case =
: 633 0759 3      (CASE .sb [ecc$h_case]
: 634 0760 3      FROM ecc$k_leavecase TO ecc$k_allcap OF
: 635 0761 3      SET
: 636 0762 3      [ecc$k_leavecase] : leave_case;
: 637 0763 3      [ecc$k_firstcap] : first_caps;
: 638 0764 3      [ecc$k_allcap] : force_upper;
: 639 0765 2      TES);
: 640 0766 2
: 641 0767 2      caption_is_centered = (.sb [ecc$h_position] eql ecc$k_center);
: 642 0768 2      caption_is_flush_right = (.sb [ecc$h_position] eql ecc$k_right);
: 643 0769 2      break_before_caption = .sb [ecc$v_break];
: 644 0770 2      tocpage = .sb [ecc$v_tocpage];
: 645 0771 2      startodd = .sb [ecc$v_startodd];
: 646 0772 2      new_page = .sb [ecc$v_page];
: 647 0773 2      caption_is_run_in = .sb [ecc$h_runin];
: 648 0774 2      caption_is_bold = .sb [ecc$v_bold];
: 649 0775 2      caption_is_underlined = .sb [ecc$v_underline];
: 650 0776 2      autosubtitle =
: 651 0777 3      (IF .handler EQL h_header_level
: 652 0778 3      THEN
: 653 0779 4      (.gca_autosubt GEQ .hllist [cl_index] AND .hct_subtitle)
: 654 0780 3      ELSE
: 655 0781 2      FALSE);
: 656 0782 2
: 657 0783 1      END;

```

! End of SET_ECC

51	OC	A0	55	00000000G	EF	9E	00002	003C 00000	SET_ECC: .WORD	Save R2,R3,R4,R5	: 0682
			54	00000000'	EF	9E	00009		MOVAB	SCA+124, R5	:
			50	08	AC	D0	00010		MOVAB	LINES_BEFORE, R4	:
			20		18	EE	00014		MOVL	STYLE_BLOCK, R0	: 0724
					51	D6	0001A		EXTV	#24, #32, 12(R0), R1	: 0729
									INCL	R1	:

OC	A0	04	20	18	51	F0	0001C	INSV	R1, #24, #32, 12(R0)		
	53		A0	10	18	EE	00022	EXTV	#24, #16, 4(R0), R3		0731
					12	15	00028	BLEQ	1\$		
				0E	38	A5	EB	0002A	BLBS	SCA+180, 1\$	
			51	53	00	B5	C3	0002E	SUBL3	@SCA+124, R3, R1	0733
					51	D6	00033	INCL	R1		
					07	14	00035	BGTR	2\$		
				51	01	D0	00037	MOVL	#1, R1		
					02	11	0003A	BRB	2\$		
					51	D4	0003C	1\$: CLRL	R1		0731
			64		51	D0	0003E	2\$: MOVL	R1, LINES_BEFORE		
60			A4		09	A0	32	00041	CVTWL	9(R0), LINES_BETWEEN	0736
			52		05	A0	32	00046	CVTWL	5(R0), R2	0738
						0E	15	0004A	BLEQ	3\$	
			51		00	B5	C3	0004C	SUBL3	@SCA+124, R2, R1	0740
					51	D6	00051	INCL	R1		
					07	14	00053	BGTR	4\$		
				51	01	D0	00055	MOVL	#1, R1		
					02	11	00058	BRB	4\$		
					51	D4	0005A	3\$: CLRL	R1		0738
04			A4		51	D0	0005C	4\$: MOVL	R1, LINES_AFTER		
			0D		04	AC	D1	00060	CMPL	HANDLER, #13	0743
					06	13	00064	BEQL	5\$		
				01	04	AC	D1	00066	CMPL	HANDLER, #1	
					07	12	0006A	BNEQ	6\$		
			64		53	D0	0006C	5\$: MOVL	R3, LINES_BEFORE		0746
04			A4		52	D0	0006F	MOVL	R2, LINES_AFTER		0747
08			A4		0D	A0	32	00073	6\$: CVTWL	13(R0), TEST_PAGE_AMOUNT	0750
			20		18	EE	00078	EXTV	#24, #32, 12(R0), COUNTER_VALUE		0751
14	A4	0C	A0		18	EE	0007F	EXTV	#24, #16, 16(R0), COUNTER_DISPLAY_CODE		0752
18	A4	10	A0		18	EE	00086	EXTV	#24, #16, 8(R0), COUNTER_SPACES_AFTER		0753
1C	A4	08	A0		18	EE	00086	EXTV	#24, #16, 8(R0), COUNTER_SPACES_AFTER		0753
				20	15	A0	32	0008D	CVTWL	21(R0), COUNTER_PRE_STRING_LENGTH	0754
24	A4	14	A0		18	EF	00092	EXTZV	#24, #32, 20(R0), COUNTER_PRE_STRING_PTR		0755
28	A4	18	A0		18	EE	00099	EXTV	#24, #16, 24(R0), COUNTER_POST_STRING_LENGTH		0756
				20	08	EF	000A0	EXTZV	#8, #32, 28(R0), COUNTER_POST_STRING_PTR		0757
2C	A4	1C	A0		03	A0	8F	000A7	CASEB	3(R0), #0, #2	0759
			02		0006		000AC	7\$: .WORD	8\$-7\$,-		
			000F						9\$-7\$,-		
									10\$-7\$		
					51	D4	000B2	8\$: CLRL	R1		
					08	11	000B4	BRB	11\$		
				51	02	D0	000B6	9\$: MOVL	#2, R1		
					03	11	000B9	BRB	11\$		
				51	01	D0	000BB	10\$: MOVL	#1, R1		
38			A4		51	D0	000BE	11\$: MOVL	R1, CAPTION_CASE		
					51	D4	000C2	CLRL	R1		0767
				02	04	A0	91	000C4	CMPB	4(R0), #2	
					02	12	000C8	BNEQ	12\$		
					51	D6	000CA	INCL	R1		
3C			A4		51	D0	000CC	12\$: MOVL	R1, CAPTION_IS_CENTERED		0768
					51	D4	000D0	CLRL	R1		
				01	04	A0	91	000D2	CMPB	4(R0), #1	
					02	12	000D6	BNEQ	13\$		
					51	D6	000D8	INCL	R1		
				40	51	D0	000DA	13\$: MOVL	R1, CAPTION_IS_FLUSH_RIGHT		
5C	A4		60		03	EF	000DE	EXTZV	#3, #1, (R0), BREAK_BEFORE_CAPTION		0769

6C	A4	60	01	04	EF	000E4	EXTZV	#4, #1, (R0),	TOCPAGE	:	0770		
68	A4	60	01	06	EF	000EA	EXTZV	#6, #1, (R0),	STARTODD	:	0771		
64	A4	60	01	05	EF	000F0	EXTZV	#5, #1, (R0),	NEW_PAGE	:	0772		
			44	A4	02	A0	98	000F6	CVTBL	2(R0),	CAPTION_IS_RUN_IN	:	0773
48	A4	60	01	00	EF	000FB	EXTZV	#0, #1, (R0),	CAPTION_IS_BOLD	:	0774		
4C	A4	60	01	01	EF	00101	EXTZV	#1, #1, (R0),	CAPTION_IS_UNDERLINED	:	0775		
		00000061	8F	04	AC	D1	00107	CMPL	HANDLER, #97	:	0777		
					1D	12	0010F	BNEQ	15\$:			
					50	D4	00111	CLRL	R0	:	0779		
		00000000G	EF	00000000G	FF	D1	00113	CMPL	@GCA+8, HLLIST+4	:			
					02	19	0011E	BLSS	14\$:			
					50	D6	00120	INCL	R0	:			
			51	00000000G	FF	D2	00122	MCOML	@HCT+24, R1	:			
			50		51	CA	00129	BICL2	R1, R0	:			
					02	11	0012C	BRB	16\$:			
					50	D4	0012E	CLRL	R0	:	0777		
		54	A4		50	D0	00130	MOVL	R0, AUTOSUBTITLE	:			
					04	00134	RET			:	0783		

: Routine Size: 309 bytes, Routine Base: \$CODE\$ + 0208

:	658	0784	1		
:	659	0785	1	END	! End of module
:	660	0786	0	ELUDOM	

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	112	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	829	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.2
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	84	6	86	00:00.2

COMMAND QUALIFIERS

HEADER
V04-000

H 11
HEADER -- handle headers (titles) for examples, 16-Sep-1984 00:44:00
SET_ECC -- set OUTHDR formals from the ECC a 14-Sep-1984 13:06:41

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

Page 20
(5)

IFI
V04

```
:      BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$;HEADER/OBJ=OBJ$;HEADER MSRC$;HEADER/UPDATE=(ENHS;HEADER)
: Size:          829 code + 112 data bytes
: Run Time:      00:15.2
: Elapsed Time: 00:32.6
: Lines/CPU Min: 3112
: Lexemes/CPU-Min: 16510
: Memory Used:  148 pages
: Compilation Complete
```

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