


```

DDDDDDDD      000000      FFFFFFFFFF      LL      GGGGGGGG
DDDDDDDD      000000      FFFFFFFFFF      LL      GGGGGGGG
DD      DD      00      00      FF      LL      GG
DD      DD      00      00      FF      LL      GG
DD      DD      00      00      FF      LL      GG
DD      DD      00      00      FF      LL      GG
DD      DD      00      00      FF      LL      GG
DD      DD      00      00      FFFFFFFF      LL      GG
DD      DD      00      00      FFFFFFFF      LL      GG
DD      DD      00      00      FF      LL      GG      GGGGGG
DD      DD      00      00      FF      LL      GG      GGGGGG
DD      DD      00      00      FF      LL      GG      GG
DD      DD      00      00      FF      LL      GG      GG
DDDDDDDD      000000      FF      LLLLLLLLLL      GGGGGG      ....
DDDDDDDD      000000      FF      LLLLLLLLLL      GGGGGG      ....

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LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLL      IIIIII      SSSSSSSS

```



```

1 0001 0 %TITLE 'Process flags'
2 0002 0 MODULE DOFLG ( 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 *
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27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 **
32 0032 1 FACILITY: DSR (Digital Standard RUNOFF) / DSRPLUS
33 0033 1
34 0034 1 ABSTRACT: Flag processing
35 0035 1
36 0036 1
37 0037 1 ENVIRONMENT: Transportable
38 0038 1
39 0039 1 AUTHOR: R.W.Friday
40 0040 1
41 0041 1 CREATION DATE: April 1978
42 0042 1

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```
44 0047 1 %SBTTL 'Revision History'
45 0044 1
46 0045 1 MODIFIED BY:
47 0046 1
48 0047 1 020 REM00020 Ray Marshall 17-November-1983
49 0048 1 Added supporting logic for the case rules for the DEC multi-
50 0049 1 national character set.
51 0050 1
52 0051 1 019 KFA00019 Ken Alden 06-Oct-1983
53 0052 1 For DSRPLUS: Removed call to endwrđ during pass-through
54 0053 1
55 0054 1 018 KFA00018 Ken Alden 13-Sep-1983
56 0055 1 For DSRPLUS: Added sca_wrd_pass for ENDWRD cooperation.
57 0056 1
58 0057 1 017 KFA00017 Ken Alden 11-Jun-1983
59 0058 1 Fixed the bolded, underline TAB bug.
60 0059 1
61 0060 1 016 KFA00016 Ken Alden 21-Mar-1983
62 0061 1 Removed error message RNFIPF.
63 0062 1
64 0063 1 015 KFA00015 Ken Alden 21-Mar-1983
65 0064 1 Eliminate the Passthrough flag, functionality now works
66 0065 1 with accept flag
67 0066 1
68 0067 1 014 KAD00014 Keith Dawson 20-Mar-1983
69 0068 1 Fixed bug: passthrough was visible to DSR.
70 0069 1
71 0070 1 013 KFA00013 Ken Alden 15-Mar-1983
72 0071 1 For DSRPLUS: added recognition of passthrough flag
73 0072 1
74 0073 1 012 KAD00012 Keith Dawson 07-Mar-1983
75 0074 1 Global edit of all modules. Updated module names, idents,
76 0075 1 copyright dates. Changed require files to BLISS library.
77 0076 1
78 0077 1 !--
```

```

: 80      0078 1 %SBTTL 'Module Level Declarations'
: 81      0079 1
: 82      0080 1
: 83      0081 1  TABLE OF CONTENTS:
: 84      0082 1
: 85      0083 1
: 86      0084 1 FORWARD ROUTINE
: 87      0085 1     SUBXR : NOVALUE,           !Used by .SUBINDEX and .ENTRY commands
: 88      0086 1     XR : NOVALUE;             !Used for processing Index flag
: 89      0087 1
: 90      0088 1
: 91      0089 1  INCLUDE FILES:
: 92      0090 1
: 93      0091 1
: 94      0092 1 LIBRARY 'NXPORT:XPORT';       ! XPORT Library
: 95      0093 1 REQUIRE 'REQ:RNODEF';       ! RUNOFF variant definitions
: 96      0224 1
: 97      U 0225 1 %IF DSRPLUS %THEN
: 98      U 0226 1 LIBRARY 'REQ:DPLLIB';      ! DSRPLUS BLISS Library
: 99      0227 1 %ELSE
: 100     0228 1 LIBRARY 'REQ:DSRLIB';       ! DSR BLISS Library
: 101     0229 1 %FI
: 102     0230 1
: 103     0231 1
: 104     0232 1  MACROS:
: 105     0233 1
: 106     0234 1
: 107     0235 1  EQUATED SYMBOLS:
: 108     0236 1
: 109     0237 1
: 110     0238 1  OWN STORAGE:
: 111     0239 1
: 112     0240 1
: 113     0241 1  EXTERNAL REFERENCES:
: 114     0242 1
: 115     0243 1
: 116     0244 1 EXTERNAL LITERAL
: 117     0245 1     RINTES : UNSIGNED (8);
: 118     0246 1
: 119     0247 1 EXTERNAL
: 120     0248 1     FLGT : FLAG_TABLE [FLAG_COUNT],
: 121     0249 1     IRA  : FIXED_STRING,
: 122     0250 1     KHAR,
: 123     0251 1     MRA  : REF FIXED_STRING,
: 124     0252 1     SCA  : SCA_DEFINITION,
: 125     0253 1     TSF  : TSF_DEFINITION,
: 126     0254 1     XMRA : FIXED_STRING,
: 127     0255 1     XTSF : VECTOR;
: 128     0256 1
: 129     0257 1 EXTERNAL LITERAL           ! Error messages
: 130     0258 1     RNFFEL,
: 131     0259 1     RNFFNA,
: 132     0260 1     RNFLC,
: 133     0261 1     RNFLTC,
: 134     0262 1     RNFLSTR;
: 135     0263 1
: 136     0264 1 EXTERNAL ROUTINE

```

DOFLG
V04-000

Process flags
Module Level Declarations

H 5
16-Sep-1984 00:13:49
14-Sep-1984 13:06:00

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]DOFLG.BLI;1 (3)

DOFLG
V04-

:	137	0265	1	endchr,
:	138	0266	1	endwrđ,
:	139	0267	1	erm,
:	140	0268	1	erms,
:	141	0269	1	fndf(g,
:	142	0270	1	outlin,
:	143	0271	1	outxph,
:	144	U 0272	1	%IF dsrplus %THEN
:	145	U 0273	1	newsb,
:	146	0274	1	%ELSE
:	147	0275	1	subst,
:	148	0276	1	%FI
:	149	0277	1	rskips,
:	150	0278	1	setcas;

```

152 0279 1 GLOBAL ROUTINE DOFLG : NOVALUE =
153 0280 1
154 0281 1 !++
155 0282 1 FUNCTIONAL DESCRIPTION:
156 0283 1
157 0284 1
158 0285 1 FORMAL PARAMETERS: None
159 0286 1
160 0287 1 IMPLICIT INPUTS:
161 0288 1
162 0289 1     KHAR contains the character (flag) to be processed.
163 0290 1
164 0291 1 IMPLICIT OUTPUTS: None
165 0292 1
166 0293 1 ROUTINE VALUE:
167 0294 1 COMPLETION CODES: None
168 0295 1
169 0296 1 SIDE EFFECTS: None
170 0297 1
171 0298 1 --
172 0299 1
173 0300 2     BEGIN
174 0301 2
175 0302 2     OWN
176 0303 2         SCA_DO_HOLD,
177 0304 2         SCA_WRD_HOLD;
178 0305 2
179 0306 2     LOCAL
180 0307 2         WHICH_FLAG;
181 0308 2
182 0309 2     WHICH_FLAG = FNDFLG (.KHAR);           !Identify the flag to be processed.
183 0310 2
184 0311 2     CASE .WHICH_FLAG FROM 0 TO FLAG_COUNT - 1 OF
185 0312 2         SET
186 0313 2
187 0314 2         [SUB_FLAG] :
188 0315 3             BEGIN
189 0316 3             !Substitute flag
190 0317 3 %IF dsrplus %THEN
191 0318 3             newsub ();
192 0319 3 %ELSE
193 0320 3             SUBST ();
194 0321 3 %FI
195 0322 3             RETURN;
196 0323 2             END;
197 0324 2
198 0325 2         [QUO_FLAG] :
199 0326 3             BEGIN
200 0327 3             !Quote flag
201 0328 3             KCNS ();           !Get next character.
202 0329 3
203 0330 3             IF .KHAR EQL RINTES
204 0331 3             THEN
205 0332 4                 BEGIN
206 0333 4                 ERM (RNFFEL, CH$PTR (UPLIT ('ACCEPT')), 6);
207 0334 4                 ERMS (RNFSIR, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)));
208 0335 4                 RETURN;           ! Ignore a Quote flag at the end of the line.

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: 209      0336 4      END
: 210      0337 3      ELSE
: 211      0338 4      BEGIN
: 212      0339 4      SCA_FRC_CHR = TRUE;      !Don't translate this character.
: 213      0340 4      ENDCHR (.KHAR);      !Output character as is.
: 214      0341 4      KCNS ();      !Get next character.
: 215      0342 4      RETURN;
: 216      0343 4      END;
: 217      0344 3
: 218      0345 2      END;
: 219      0346 2
: 220      0347 2      [UPP_FLAG] :
: 221      0348 3      BEGIN
: 222      0349 3      !Uppercase flag
: 223      0350 3      KCNS ();      !Get next character.
: 224      0351 3
: 225      0352 3      IF (.KHAR EQL .FLGT [UPP_FLAG, FLAG_CHARACTER])
: 226      0353 3      THEN
: 227      0354 4      BEGIN      !Doubled Uppercase flags
: 228      0355 4      SETCAS (LEAVE_CASE);
: 229      0356 4      SCA_FRC_CASE = TRUE;
: 230      0357 4      KCNS ();
: 231      0358 4      RETURN;
: 232      0359 3      END;
: 233      0360 3
: 234      0361 4      IF (.KHAR EQL .FLGT [CAP_FLAG, FLAG_CHARACTER])
: 235      0362 3      AND .FLGT [CAP_FLAG, FLAG_ENABLED]
: 236      0363 3      THEN
: 237      0364 3      !Uppercase flag followed by Capitalize flag (i.e., ^<)
: 238      0365 4      BEGIN
: 239      0366 4      SETCAS (FORCE_UPPER);
: 240      0367 4      SCA_FRC_CASE = TRUE;
: 241      0368 4      KCNS ();
: 242      0369 4      RETURN
: 243      0370 3      END;
: 244      0371 3
: 245      0372 4      IF (.KHAR EQL .FLGT [UND_FLAG, FLAG_CHARACTER])
: 246      0373 3      AND .FLGT [UND_FLAG, FLAG_ENABLED]
: 247      0374 3      THEN
: 248      0375 3      !Uppercase flag followed by Underline flag (i.e., ^&)
: 249      0376 4      BEGIN      !Turn on global underlining
: 250      0377 4      SCA_UND = TRUE;
: 251      0378 4      SCA_WRD_C_UND = .SCA_DO_UND;
: 252      0379 4      KCNS ();
: 253      0380 4      RETURN;
: 254      0381 3      END;
: 255      0382 3
: 256      0383 4      IF (.KHAR EQL .FLGT [BLD_FLAG, FLAG_CHARACTER])
: 257      0384 3      AND .FLGT [BLD_FLAG, FLAG_ENABLED]
: 258      0385 3      THEN
: 259      0386 3      !Uppercase flag followed by Bold flag (i.e., ^*)
: 260      0387 4      BEGIN      !Turn on global bolding
: 261      0388 4      SCA_BLD = TRUE;
: 262      0389 4      SCA_WRD_C_BLD = .SCA_DO_BLD;
: 263      0390 4      KCNS ();
: 264      0391 4      RETURN;
: 265      0392 3      END;

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266 0393 3
267 U 0394 3 %IF DSRPLUS %THEN
268 U 0395 3 IF (.KHAR EQL .FLGT [QUO_FLAG, FLAG_CHARACTER])
269 U 0396 3 AND .FLGT [QUO_FLAG, FLAG_ENABLED]
270 U 0397 3 THEN
271 U 0398 3 !Uppercase flag followed by Accept flag (i.e., ^)
272 U 0399 3 BEGIN !Turn on global accept
273 U 0400 3 sca_pass = true; !Now passing through (ENDCHR)
274 U 0401 3 sca_wrd_pass = true; !This 'word' is a passthr. (ENDWRD)
275 U 0402 3 sca_do_hold = .sca_do_nbits; !Save status of bold/under
276 U 0403 3 sca_wrd_hold = .sca_wrd_cnbits;
277 U 0404 3 sca_do_nbits = false; !and turn it temp. off.
278 U 0405 3 sca_wrd_cnbits = false;
279 U 0406 3 KCNS ();
280 U 0407 3 RETURN;
281 U 0408 3 END;
282 U 0409 3
283 U 0410 3 %FI
284 U 0411 3 !This gets done for an Uppercase flag standing alone.
285 U 0412 3 SCA_FRC_CHR = TRUE;
286 U 0413 3 SCA_WRD_FC_LT = %C'A' - %C'a';
287 U 0414 3 SCA_WRD_OC_LT = %C'A' - %C'a';
288 U 0415 3 SCA_WRD_FC_UT = 0;
289 U 0416 3 SCA_WRD_OC_UT = 0;
290 U 0417 3
291 U 0418 3 SCA_MNWRD_FC_LT = %DECIMAL'192' - %DECIMAL'224';
292 U 0419 3 SCA_MNWRD_OC_LT = %DECIMAL'192' - %DECIMAL'224';
293 U 0420 3 SCA_MNWRD_FC_UT = 0;
294 U 0421 3 SCA_MNWRD_OC_UT = 0;
295 U 0422 3 RETURN
296 U 0423 3 END;
297 U 0424 3
298 U 0425 3 [LOW_FLAG] :
299 U 0426 3 BEGIN
300 U 0427 3 !Lowercase flag
301 U 0428 3 KCNS (); !Get next character.
302 U 0429 3
303 U 0430 3 IF .KHAR EQL .FLGT [LOW_FLAG, FLAG_CHARACTER]
304 U 0431 3 THEN
305 U 0432 3 BEGIN ! Doubled Lowercase flags
306 U 0433 3 SETCAS (FORCE_LOWER);
307 U 0434 3 SCA_FRC_CASE = TRUE;
308 U 0435 3 KCNS ();
309 U 0436 3 RETURN;
310 U 0437 3 END;
311 U 0438 3
312 U 0439 3 IF (.KHAR EQL .FLGT [UND_FLAG, FLAG_CHARACTER])
313 U 0440 3 AND .FLGT [UND_FLAG, FLAG_ENABLED]
314 U 0441 3 THEN
315 U 0442 3 !Lowercase flag followed by Underline flag (i.e., \&)
316 U 0443 3 BEGIN !Turn off global underlining
317 U 0444 3 SCA_UND = FALSE;
318 U 0445 3 SCA_WRD_C_UND = FALSE;
319 U 0446 3 KCNS ();
320 U 0447 3 RETURN;
321 U 0448 3 END;
322 U 0449 3

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323 0450 4      IF (.KHAR EQL .FLGT [BLD_FLAG, FLAG_CHARACTER])
324 0451 3      AND .FLGT [BLD_FLAG, FLAG_ENABLED]
325 0452 3      THEN
326 0453 3      !Lowercase flag followed by Bold flag (i.e., \*)
327 0454 4      BEGIN                                     !Turn off global bolding
328 0455 4      SCA_BLD = FALSE;
329 0456 4      SCA_WRD_C_BLD = FALSE;
330 0457 4      KCNS ();
331 0458 4      RETURN;
332 0459 4      END;
333 0460 4
334 U 0461 4      %IF DSRPLUS %THEN
335 U 0462 4      IF (.KHAR EQL .FLGT [QUO_FLAG, FLAG_CHARACTER])
336 U 0463 4      AND .FLGT [QUO_FLAG, FLAG_ENABLED]
337 U 0464 4      THEN
338 U 0465 4      !Lowercase flag followed by Accept flag (i.e., \_)
339 U 0466 4      BEGIN                                     !Turn off global Accept
340 U 0467 4      IF .SCA_PASS EQL TRUE
341 U 0468 4      THEN
342 U 0469 4      BEGIN
343 U 0470 4      SCA_DO_NBITS = .SCA_DO_HOLD;           !Restore status of bold/under
344 U 0471 4      SCA_WRD_CNBITS = .SCA_WRD_CHOLD;       !
345 U 0472 4      END;
346 U 0473 4      SCA_PASS = FALSE;
347 U 0474 4      KCNS ();
348 U 0475 4      RETURN;
349 U 0476 4      END;
350 U 0477 4      %FI
351 0478 4      !Lowercase flag standing alone
352 0479 4      SCA_FRC_CHR = TRUE;
353 0480 4      SCA_WRD_FC_UT = %C'a' - %C'A';
354 0481 4      SCA_WRD_OC_UT = %C'a' - %C'A';
355 0482 4      SCA_WRD_FC_LT = 0;
356 0483 4      SCA_WRD_OC_LT = 0;
357 0484 4
358 0485 4      SCA_MNWRD_FC_UT = %DECIMAL'224' - %DECIMAL'192';
359 0486 4      SCA_MNWRD_OC_UT = %DECIMAL'224' - %DECIMAL'192';
360 0487 4      SCA_MNWRD_FC_LT = 0;
361 0488 4      SCA_MNWRD_OC_LT = 0;
362 0489 4      RETURN
363 0490 4      END;
364 0491 4
365 0492 4      [PER FLAG] :
366 0493 4      BEGIN
367 0494 4      !Capitalize flag
368 0495 4      SCA_WRD_LC_PNCT = .SCA_FILL;           !Double space only if .FILL.
369 0496 4      KCNS ();                               !Discard the flag.
370 0497 4      END;
371 0498 4
372 0499 4      [BRK FLAG] :
373 0500 4      BEGIN
374 0501 4      !Break flag
375 0502 4
376 0503 4      KCNS ();                                     !Skip over flag.
377 0504 4
378 0505 4      IF (.SCA_WRD CPEND EQL RINTES)           !
379 0506 4      OR (.KHAR EQL %C' ')                   !Space?

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    OR (.KHAR EQL X0'011')      !TAB??
  THEN
    !!' Before/after a space/tab or starting a line
    ERMS (RNFFNA, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)))
  ELSE
    IF .KHAR EQL RINTES
    THEN
      BEGIN
      ERM (RNFFEL, CH$PTR (UPLIT ('BREAK')), 5);
      ERMS (RNFSIR, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)));
      END
    ELSE
      !!' after some text is ok.
      BEGIN
      ENDWRD (FALSE, FALSE, FALSE);           !End word with no spacing or justification.
      SCA_FC_CASE = FALSE;                    !Do not cap next character.
      END;
    END;

  [CAP FLAG] :
  BEGIN
  !Capitalize flag

  IF .SCA_WORD_SET
  THEN
    !A Capitalize flag is already in effect.
    !Turn it off. I.e. "<" is a flip-flop.
    BEGIN                                   !Restore global case rules
    SCA_WORD_SET = FALSE;
    SCA_FC_UT = .SCA_FCBE_UT;
    SCA_OC_UT = .SCA_OCBE_UT;
    SCA_FC_LT = .SCA_FCBE_LT;
    SCA_OC_LT = .SCA_OCBE_LT;
    SCA_WRD_FC_UT = .SCA_FCBE_UT;
    SCA_WRD_OC_UT = .SCA_OCBE_UT;
    SCA_WRD_FC_LT = .SCA_FCBE_LT;
    SCA_WRD_OC_LT = .SCA_OCBE_LT;

    SCA_MNFC_UT = .SCA_MNFCBE_UT;
    SCA_MNOC_UT = .SCA_MNOCBE_UT;
    SCA_MNFC_LT = .SCA_MNFCBE_LT;
    SCA_MNOC_LT = .SCA_MNOCBE_LT;
    SCA_MNWRD_FC_UT = .SCA_MNFCBE_UT;
    SCA_MNWRD_OC_UT = .SCA_MNOCBE_UT;
    SCA_MNWRD_FC_LT = .SCA_MNFCBE_LT;
    SCA_MNWRD_OC_LT = .SCA_MNOCBE_LT;
    END
  ELSE
    !
    BEGIN
    SCA_WORD_SET = TRUE;
    SCA_FCBE_UT = .SCA_FC_UT;
    SCA_FCBE_LT = .SCA_FC_LT;
    SCA_OCBE_UT = .SCA_OC_UT;
    SCA_OCBE_LT = .SCA_OC_LT;

    SCA_MNFCBE_UT = .SCA_MNFC_UT;

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: 437      0564 4          SCA_MNFCBE_LT = .SCA_MNFC_LT;
: 438      0565 4          SCA_MNOCBE_UT = .SCA_MNOC_UT;
: 439      0566 4          SCA_MNOCBE_LT = .SCA_MNOC_LT;
: 440      0567 4
: 441      0568 4          ! Establish new case rules for this word.
: 442      0569 4          SCA_WRD_FC_LT = %C'A' - %C'a';
: 443      0570 4          SCA_WRD_OC_LT = %C'A' - %C'a';
: 444      0571 4          SCA_WRD_FC_UT = 0;
: 445      0572 4          SCA_WRD_OC_UT = 0;
: 446      0573 4          SCA_FC_LT = %C'A' - %C'a';
: 447      0574 4          SCA_OC_LT = %C'A' - %C'a';
: 448      0575 4          SCA_FC_UT = 0;
: 449      0576 4          SCA_OC_UT = 0;
: 450      0577 4
: 451      0578 4          SCA_MNWRD_FC_LT = %DECIMAL'192' - %DECIMAL'224';
: 452      0579 4          SCA_MNWRD_OC_LT = %DECIMAL'192' - %DECIMAL'224';
: 453      0580 4          SCA_MNWRD_FC_UT = 0;
: 454      0581 4          SCA_MNWRD_OC_UT = 0;
: 455      0582 4          SCA_MNFC_LT = %DECIMAL'192' - %DECIMAL'224';
: 456      0583 4          SCA_MNFC_UT = 0;
: 457      0584 4          SCA_MNOC_LT = %DECIMAL'192' - %DECIMAL'224';
: 458      0585 4          SCA_MNOC_UT = 0;
: 459      0586 333      END;
: 460      0587 333
: 461      0588 333      KCNS ();
: 462      0589 333      RETURN;
: 463      0590 222      END;
: 464      0591 222
: 465      0592 222      [UND FLAG] :
: 466      0593 333      BEGIN
: 467      0594 333      !Underline flag alone.
: 468      0595 333      KCNS ();
: 469      0596 333      IF .KHAR NEQ %O'011'          !Next character a TAB?
: 470      0597 333      THEN
: 471      0598 4          BEGIN
: 472      0599 4          SCA_WRD_AC_UND = .SCA_DO_UND;    ! Underline a single character
: 473      0600 333      END;
: 474      0601 333
: 475      0602 333      RETURN;
: 476      0603 222      END;
: 477      0604 222
: 478      0605 222      [BLD FLAG] :
: 479      0606 333      BEGIN
: 480      0607 333      !Bold flag alone.
: 481      0608 333      KCNS ();
: 482      0609 333      IF .KHAR NEQ %O'011'          !Next character a TAB?
: 483      0610 333      THEN
: 484      0611 4          BEGIN
: 485      0612 4          SCA_WRD_AC_BLD = .SCA_DO_BLD;    ! Bold a single character
: 486      0613 333      END;
: 487      0614 333
: 488      0615 333      RETURN;
: 489      0616 222      END;
: 490      0617 222
: 491      0618 222      [SPA FLAG] :
: 492      0619 333      BEGIN
: 493      0620 333      !Space flag

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494 0621 3
495 0622 3
496 0623 3
497 0624 3
498 0625 3
499 0626 3
500 0627 3
501 0628 3
502 0629 3
503 0630 3
504 0631 4
505 0632 4
506 0633 4
507 0634 4
508 0635 4
509 0636 4
510 0637 4
511 0638 4
512 0639 4
513 0640 4
514 0641 4
515 0642 4
516 0643 4
517 0644 4
518 0645 4
519 0646 4
520 0647 4
521 0648 4
522 0649 4
523 0650 4
524 0651 3
525 0652 3
526 0653 3
527 0654 3
528 0655 3
529 0656 3
530 0657 3
531 0658 3
532 0659 2
533 0660 2
534 0661 2
535 0662 3
536 0663 3
537 0664 3
538 0665 3
539 0666 3
540 0667 3
541 0668 3
542 0669 3
543 0670 2
544 0671 2
545 0672 2
546 0673 3
547 0674 3
548 0675 3
549 0676 4
550 0677 4

IF .SCA_X_FLAG
THEN
!A Space flag completes a sequence started by the Index flag.
XR ();

IF .SCA_WORD_SET
THEN
!A Space flag terminates a sequence started by
!the Capitalize flag.
BEGIN
!Restore global case rules
SCA_WORD_SET = FALSE;
SCA_FC_UT = .SCA_FCBE_UT;
SCA_OC_UT = .SCA_OCBE_UT;
SCA_FC_LT = .SCA_FCBE_LT;
SCA_OC_LT = .SCA_OCBE_LT;
SCA_WRD_FC_UT = .SCA_FCBE_UT;
SCA_WRD_OC_UT = .SCA_OCBE_UT;
SCA_WRD_FC_LT = .SCA_FCBE_LT;
SCA_WRD_OC_LT = .SCA_OCBE_LT;

SCA_MNFC_UT = .SCA_MNFCBE_UT;
SCA_MNOC_UT = .SCA_MNOCBE_UT;
SCA_MNFC_LT = .SCA_MNFCBE_LT;
SCA_MNOC_LT = .SCA_MNOCBE_LT;
SCA_MNWRD_FC_UT = .SCA_MNFCBE_UT;
SCA_MNWRD_OC_UT = .SCA_MNOCBE_UT;
SCA_MNWRD_FC_LT = .SCA_MNFCBE_LT;
SCA_MNWRD_OC_LT = .SCA_MNOCBE_LT;

END;

SCA_WRD_C_UND = FALSE;
ENDCHR ('%C' );
SCA_FRC_CASE = FALSE;
SCA_FC_CASE = TRUE;
KCNS ();
RETURN;
END;

[IND FLAG] :
BEGIN
!Index flag
IF .SCA_XROUTINE
THEN
SUBXR ()
ELSE
XR ();
RETURN;
END;

[HYP FLAG] :
BEGIN
!Hyphenation flag
KCNS ();
IF (.SCA_WRD_CPEND_EOL_RINTFS)
OR (.KHAR_EOL_%C' ');
!Skip flag.
!Space?

```

```
551 0678 4      OR (.KHAR EQL %0'011')      !TAB??
552 0679 3      THEN
553 0680 3      !Hyphenate before/after a space/tab or starting a line
554 0681 3      ERMS (RNFFNA, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)))
555 0682 3      ELSE
556 0683 3
557 0684 3      IF .KHAR EQL RINTES
558 0685 3      THEN
559 0686 4      BEGIN
560 0687 4      ERM (RNFFEL, CH$PTR (UPLIT ('HYPHENATE')), 9);
561 0688 4      ERMS (RNFSR, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)));
562 0689 4      END
563 0690 3      ELSE
564 0691 3      !Hyphenation between some text is ok.
565 0692 3      IF .SCA_DO_HYP
566 0693 3      THEN
567 0694 3      !Hyphenation is only done if user said
568 0695 3      !to do it (.HYPHENATION). Otherwise it's ignored.
569 0696 4      BEGIN
570 0697 4      ENDWRD (FALSE, FALSE, TRUE);      !End word with hyphenation.
571 0698 4      SCA_FC_CASE = FALSE;      !Do not cap next character.
572 0699 3      END;
573 0700 3      RETURN;
574 0701 2      END;
575 0702 2
576 0703 2 [OVR_FLAG] :
577 0704 3 BEGIN
578 0705 3 !Overstrike flag
579 0706 3 KCNS ();
580 0707 3
581 0708 3 IF .KHAR EQL RINTES
582 0709 3 THEN
583 0710 4 BEGIN
584 0711 4 ERM (RNFFEL, CH$PTR (UPLIT ('OVERSTRIKE')), 10);
585 0712 4 ERMS (RNFSR, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)));
586 0713 4 RETURN;      ! Ignore Overstrike flag at the end of a line.
587 0714 3 END;
588 0715 3
589 0716 3 IF .SCA_WRD_CPEND EQL RINTES
590 0717 3 THEN
591 0718 4 BEGIN
592 0719 4 !OVERSTRIKE flag standing alone
593 0720 4 ERMS (RNFFNA, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)));
594 0721 4 END
595 0722 3 ELSE
596 0723 3 IF .SCA_DO_OVR
597 0724 3 THEN
598 0725 3 !User did not say .NO OVERSTRIKING, so really overstrike.
599 0726 4 BEGIN
600 0727 4 IF (.FS_MAXSIZE (MRA) - .FS_LENGTH (MRA)) LSS 3
601 0728 4 THEN      !No room for overstriking code
602 0729 4 ERMS (RNFLTC, .FS_NEXT (IRA), .FS_LENGTH (IRA))
603 0730 4 ELSE
604 0731 4 !Generate overstriking code.
605 0732 5 BEGIN
606 0733 5 FS_WCHAR (MRA, RINTES);
607 0734 5 FS_WCHAR (MRA, %C'0');
```

```

608 0735 S FS_WCHAR (MRA, .KHAR);
609 0736 S SCA_WRD_INT_L = .SCA_WRD_INT_L + 3;
610 0737 S SCA_WRD_OVR = TRUE;
611 0738 S END;
612 0739 S END;
613 0740 S
614 0741 S KCNS (); ! Get next character.
615 0742 S RETURN;
616 0743 S END;
617 0744 S
618 U 0745 S %IF DSRPLUS %THEN
619 UU 0746 S [NPX_FLAG] :
620 UU 0747 S BEGIN
621 UU 0748 S !
622 UU 0749 S !If not an indexing command, then treat the Nopermute flag
623 UU 0750 S !as an ordinary character.
624 UU 0751 S IF NOT .TSF_INDEX
625 UU 0752 S THEN
626 UU 0753 S BEGIN
627 UU 0754 S ENDCHR (.KHAR); !Output character as-is.
628 UU 0755 S KCNS ();
629 UU 0756 S RETURN;
630 UU 0757 S END;
631 UU 0758 S
632 UU 0759 S KCNS (); !Position past the flag.
633 UU 0760 S
634 UU 0761 S IF .TSF_XYPLUS !Do no more unless this was an .XP/.YP command.
635 UU 0762 S THEN
636 UU 0763 S BEGIN
637 UU 0764 S IF (.SCA_WRD CPEND NEQ RINTES)
638 UU 0765 S OR (.KHAR EQL %C' ') !Space?
639 UU 0766 S OR (.KHAR EQL %O'011') !Tab?
640 UU 0767 S THEN
641 UU 0768 S BEGIN
642 UU 0769 S !Nopermute before a space/tab or in the middle of a word
643 UU 0770 S ERMS (RNFFNA, .FS_START(IRA), CH$DIFF (.FS_NEXT(IRA), .FS_START(IRA)));
644 UU 0771 S RETURN;
645 UU 0772 S END;
646 UU 0773 S
647 UU 0774 S IF .KHAR EQL RINTES
648 UU 0775 S THEN
649 UU 0776 S BEGIN
650 UU 0777 S ERM (RNFFEL, CH$PTR (UPLIT ('NOPERMUTE')), 9);
651 UU 0778 S ERMS (RNFSIR, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)));
652 UU 0779 S RETURN;
653 UU 0780 S END;
654 UU 0781 S
655 UU 0782 S IF (.FS_MAXSIZE (MRA) - .FS_LENGTH (MRA)) LSS 3
656 UU 0783 S THEN
657 UU 0784 S BEGIN !No room for nopermute code.
658 UU 0785 S ERMS (RNFLTC, .FS_NEXT (IRA), .FS_LENGTH (IRA));
659 UU 0786 S RETURN;
660 UU 0787 S END;
661 UU 0788 S
662 UU 0789 S !Now generate the no-permute escape sequence.
663 UU 0790 S FS_WCHAR (MRA, RINTES);
664 UU 0791 S FS_WCHAR (MRA, %C'P');

```

```

: 665 U 0792 2 FS WCHAR (MRA, %C' ');
: 666 U 0793 2 SCA_WRD_INT_L = .SCA_WRD_INT_L + 3;
: 667 U 0794 2 END;
: 668 U 0795 2 END;
: 669 U 0796 2 %FI
: 670 [INRANGE] :
: 671 BEGIN
: 672 KCNS ();
: 673 RETURN;
: 674 END;
: 675
: 676 [OUTRANGE] :
: 677 BEGIN
: 678 KCNS ();
: 679 RETURN;
: 680 END;
: 681 TES;
: 682 RETURN;
: 683 END;
: 684

```

!End of DOFLG

```

                                .TITLE DOFLG Process flags
                                .IDENT  \V04-000\
                                .PSECT  $SPLITS$,NOWRT,NOEXE,2
00 00 00 45 54 41 4E 45 48 50 59 48 00010 P.AAC: .ASCII \HYPHENATE\<0><0><0>
00 00 45 4B 49 52 54 53 52 45 56 4F 0001C P.AAD: .ASCII \OVERSTRIKE\<0><0>
                                .PSECT  $OWNS$,NOEXE,2
                                00000 SCA_DO_HOLD:
                                    .BLKB 4
                                00004 SCA_WRD_HOLD:
                                    .BLKB 4
                                .EXTRN  RINTES, FLGT, IRA
                                .EXTRN  KHAR, MRA, SCA, TSF
                                .EXTRN  XMRA, XTSF, RNFFEL
                                .EXTRN  RNFFNA, RNFLC, RNFLTC
                                .EXTRN  RNSTR, ENDCHR, ENDWRD
                                .EXTRN  ERM, ERMS, FNDFLG
                                .EXTRN  OUTLIN, OUTXPH, SUBST
                                .EXTRN  RSKIPS, SETCAS
                                .PSECT  $CODE$,NOWRT,2
                                OFFC 00000
05B 00000000V EF 9E 00002 .ENTRY DOFLG, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 ; 0279
05A 00000000G EF 9E 00009 MOVAB XR, R11
059 00000000G EF 9E 00010 MOVAB ENL^HR, R10
058 00000000' EF 9E 00017 MOVAB SETCAS, R9
057 00000000G EF 9E 0001E MOVAB P.AAA, R8
056 00000000G EF 9E 0001E MOVAB FLGT+100, R7
056 00000000G 8F 9A 00025 MOVZBL #RINTES, R6

```

S
R
E
L
J
E
C

		55	00000000G	EF	9E	00029	MOVAB	KHAR, R5		
		54	00000000G	EF	9E	00030	MOVAB	IRA+12, R4		
		53	00000000G	EF	9E	00037	MOVAB	SCA+168, R3		
					65	DD	0003E	PUSHL	KHAR	0309
			00000000G	EF	01	FB	00040	CALLS	#1, FNDFLG	
	11			00	50	CF	00047	CASEL	WHICH_FLAG, #0, #17	0311
002E				03E9	0026		0004B	.WORD	2\$-1\$,-	
0229	03E9			00DC	005A		00053		67\$-1\$,-	
02E7	0184			0271	024F		0005B		67\$-1\$,-	
0141	02D7			03E9	033D		00063		3\$-1\$,-	
	03E9			03E9	014A		0006B		7\$-1\$,-	
									17\$-1\$,-	
									34\$-1\$,-	
									37\$-1\$,-	
									40\$-1\$,-	
									45\$-1\$,-	
									48\$-1\$,-	
									50\$-1\$,-	
									58\$-1\$,-	
									67\$-1\$,-	
									67\$-1\$,-	
									26\$-1\$,-	
									28\$-1\$,-	
									67\$-1\$	
					79	11	0006F	BRB	13\$	0805
			00000000G	EF	00	FB	00071	CALLS	#0, SUBST	0320
						04	00078	RET		0315
					64	D5	00079	TSTL	IRA+12	0328
					08	14	0007B	BGTR	4\$	
				65	56	9A	0007D	MOVZBL	R6, KHAR	
				64	01	CE	00080	MNEGL	#1, IRA+12	
					09	11	00083	BRB	5\$	
				65	F8	B4	9A	00085	4\$: MOVZBL	@IRA+4, KHAR
					F8	A4	D6	00089	INCL	IRA+4
					64	D7	0008C	DECL	IRA+12	
				56	65	D1	0008E	5\$: CMPL	KHAR, R6	0330
					07	12	00091	BNEQ	6\$	
					06	DD	00093	PUSHL	#6	0333
					58	DD	00095	PUSHL	R8	
					030D	31	00097	BRW	61\$	
				30	01	D0	0009A	6\$: MOVL	#1, SCA+216	0339
					65	DD	0009E	PUSHL	KHAR	0340
				6A	01	FB	000A0	CALLS	#1, ENDCHR	
					5B	11	000A3	BRB	15\$	0341
					64	D5	000A5	7\$: TSTL	IRA+12	0350
					08	14	000A7	BGTR	8\$	
				65	56	9A	000A9	MOVZBL	R6, KHAR	
				64	01	CE	000AC	MNEGL	#1, IRA+12	
					09	11	000AF	BRB	9\$	
				65	F8	B4	9A	000B1	8\$: MOVZBL	@IRA+4, KHAR
					F8	A4	D6	000B5	INCL	IRA+4
					64	D7	000B8	DECL	IRA+12	
				F4	65	D1	000BA	9\$: CMPL	KHAR, FLGT+88	0352
					04	12	000BE	BNEQ	10\$	
					7E	D4	000C0	CLRL	-(SP)	0355
					0C	11	000C2	BRB	11\$	
				FC	65	D1	000C4	10\$: CMPL	KHAR, FLGT+96	0361

				08	12	000C8	BNEQ	12\$		
		04		A7	E9	000CA	BLBC	FLGT+24, 12\$		0362
				01	DD	000CE	PUSHL	#1		0366
				73	11	000D0	BRB	20\$		
		67		65	D1	000D2	CMPL	KHAR, FLGT+100		0372
				15	12	000D5	BNEQ	14\$		
		11		A7	E9	000D7	BLBC	FLGT+28, 14\$		0373
		F0	A3	02	88	000DB	BISB2	#2, SCA+152		0377
				01	EF	000DF	EXTZV	#1, #1, SCA+168, R0		0378
1C	A3	63	01	01	50	F0	000E4	INSV	R0, #1, #1, SCA+196	
					73	11	000EA	BRB	22\$	0379
		04	A7	65	D1	000EC	CMPL	KHAR, FLGT+104		0383
				10	12	000F0	BNEQ	16\$		
				A7	E9	000F2	BLBC	FLGT+32, 16\$		0384
		F0	A3	01	88	000F6	BISB2	#1, SCA+152		0388
1C	A3	01	00	63	F0	000FA	INSV	SCA+168, #0, #1, SCA+196		0389
				71	11	00100	BRB	24\$		0390
		30	A3	01	D0	00102	MOVL	#1, SCA+216		0412
		FF6C	C3	20	CE	00106	MNEGL	#32, SCA+20		0413
		FF74	C3	20	CE	0010B	MNEGL	#32, SCA+28		0414
				C3	D4	00110	CLRL	SCA+16		0415
				C3	D4	00114	CLRL	SCA+24		0416
		9C	A3	20	CE	00118	MNEGL	#32, SCA+68		0418
		A4	A3	20	CE	0011C	MNEGL	#32, SCA+76		0419
				A3	D4	00120	CLRL	SCA+64		0420
				A3	D4	00123	CLRL	SCA+72		0421
				04	00126	RET				0348
				64	D5	00127	TSTL	IRA+12		0428
				08	14	00129	BGTR	18\$		
		65		56	9A	0012B	MOVZBL	R6, KHAR		
		64		01	CE	0012E	MNEGL	#1, IRA+12		
				09	11	00131	BRB	19\$		
		65		B4	9A	00133	MOVZBL	@IRA+4, KHAR		
				A4	D6	00137	INCL	IRA+4		
				64	D7	0013A	DECL	IRA+12		
		F8	A7	65	D1	0013C	CMPL	KHAR, FLGT+92		0430
				0C	12	00140	BNEQ	21\$		
		7E		01	CE	00142	MNEGL	#1, -(SP)		0433
		69		01	FB	00145	CALLS	#1, SETCAS		
		F8	A3	01	D0	00148	MOVL	#1, SCA+160		0434
				44	11	0014C	BRB	27\$		0435
		67		65	D1	0014E	CMPL	KHAR, FLGT+100		0439
				0E	12	00151	BNEQ	23\$		
		0A		A7	E9	00153	BLBC	FLGT+28, 23\$		0440
		F0	A3	02	8A	00157	BICB2	#2, SCA+152		0444
		1C	A3	02	8A	0015B	BICB2	#2, SCA+196		0445
				31	11	0015F	BRB	27\$		0446
		04	A7	65	D1	00161	CMPL	KHAR, FLGT+104		0450
				0E	12	00165	BNEQ	25\$		
		0A		A7	E9	00167	BLBC	FLGT+32, 25\$		0451
		F0	A3	01	8A	0016B	BICB2	#1, SCA+152		0455
		1C	A3	01	8A	0016F	BICB2	#1, SCA+196		0456
				1D	11	00173	BRB	27\$		0457
		30	A3	01	D0	00175	MOVL	#1, SCA+216		0479
		FF70	C3	20	7D	00179	MOVQ	#32, SCA+24		0481
		FF68	C3	20	7D	0017E	MOVQ	#32, SCA+16		0480
		A0	A3	20	7D	00183	MOVQ	#32, SCA+72		0486

98	A3		20	7D	00187	MOVQ	#32, SCA+64	0485
				04	0018B	RET		0426
00A0	C3	C0	B3	D0	0018C	26\$: MOVL	@SCA+104, SCA+328	0495
			029F	31	00192	27\$: BRW	67\$	0496
			64	D5	00195	28\$: TSTL	IRA+12	0503
			08	14	00197	BGTR	29\$	
65			56	9A	00199	MOVZBL	R6, KHAR	
64			01	CE	0019C	MNEGL	#1, IRA+12	
			09	11	0019F	BRB	30\$	
65		F8	B4	9A	001A1	29\$: MOVZBL	@IRA+4, KHAR	
		F8	A4	D6	001A5	INCL	IRA+4	
			64	D7	001A8	DECL	IRA+12	
56		70	A3	D1	001AA	30\$: CMPL	SCA+280, R6	0505
			08	13	001AE	BEQL	31\$	
20			65	D1	001B0	CMPL	KHAR, #32	0506
			03	13	001B3	BEQL	31\$	
09			65	D1	001B5	CMPL	KHAR, #9	0507
			03	12	001B8	31\$: BNEQ	32\$	
			019A	31	001BA	BRW	53\$	
56			65	D1	001BD	32\$: CMPL	KHAR, R6	0513
			08	12	001C0	BNEQ	33\$	
			05	DD	001C2	PUSHL	#5	0516
		08	A8	9F	001C4	PUSHAB	P.AAB	
			01DD	31	001C7	BRW	61\$	
			7E	D4	001CA	33\$: CLRL	-(SP)	0522
			01AC	31	001CC	BRW	57\$	
	4A	B8	A3	E9	001CF	34\$: BLBC	SCA+96, 35\$	0531
		B8	A3	D4	001D3	CLRL	SCA+96	0536
FF58	C3	FF78	C3	7D	001D6	MOVQ	SCA+32, SCA	0537
FF60	C3	80	A3	7D	001DD	MOVQ	SCA+40, SCA+8	0539
FF68	C3	FF78	C3	D0	001E3	MOVL	SCA+32, SCA+16	0541
FF70	C3	FF7C	C3	D0	001EA	MOVL	SCA+36, SCA+24	0542
FF6C	C3	80	A3	D0	001F1	MOVL	SCA+40, SCA+20	0543
FF74	C3	84	A3	D0	001F7	MOVL	SCA+44, SCA+28	0544
88	A3	A8	A3	7D	001FD	MOVQ	SCA+80, SCA+48	0546
90	A3	B0	A3	7D	00202	MOVQ	SCA+88, SCA+56	0548
98	A3	A8	A3	D0	00207	MOVL	SCA+80, SCA+64	0550
A0	A3	AC	A3	D0	0020C	MOVL	SCA+84, SCA+72	0551
9C	A3	B0	A3	D0	00211	MOVL	SCA+88, SCA+68	0552
A4	A3	B4	A3	D0	00216	MOVL	SCA+92, SCA+76	0553
			54	11	0021B	BRB	36\$	
88	A3		01	D0	0021D	35\$: MOVL	#1, SCA+96	0557
80	A3	FF60	C3	7D	00221	MOVQ	SCA+8, SCA+40	0559
FF78	C3	FF58	C3	7D	00227	MOVQ	SCA, SCA+32	0558
B0	A3	90	A3	7D	0022E	MOVQ	SCA+56, SCA+88	0564
A8	A3	88	A3	7D	00233	MOVQ	SCA+48, SCA+80	0563
FF6C	C3		20	CE	00238	MNEGL	#32, SCA+20	0569
FF74	C3		20	CE	0023D	MNEGL	#32, SCA+28	0570
		FF68	C3	D4	00242	CLRL	SCA+16	0571
		FF70	C3	D4	00246	CLRL	SCA+24	0572
FF60	C3		20	CE	0024A	MNEGL	#32, SCA+8	0573
FF64	C3		20	CE	0024F	MNEGL	#32, SCA+12	0574
		FF58	C3	7C	00254	CLRQ	SCA	0575
9C	A3		20	CE	00258	MNEGL	#32, SCA+68	0578
A4	A3		20	CE	0025C	MNEGL	#32, SCA+76	0579
		98	A3	D4	00260	CLRL	SCA+64	0580
		A0	A3	D4	00263	CLRL	SCA+72	0581

			90	A3	20	CE	00266		MNEGL	#32, SCA+56	:	0582	
			94	A3	20	CE	0026A		MNEGL	#32, SCA+60	:	0584	
					88	A3	7C	0026E	CLRD	SCA+48	:	0583	
					01	C0	31	00271	36\$:	BRW	67\$:	0588
						64	D5	00274	37\$:	TSTL	IRA+12	:	0595
						08	14	00276		BGTR	38\$:	
			65			56	9A	00278		MOVZBL	R6, KHAR	:	
			64			01	CE	0027B		MNEGL	#1, IRA+12	:	
						09	11	0027E		BRB	39\$:	
			65		F8	B4	9A	00280	38\$:	MOVZBL	@IRA+4, KHAR	:	
					F8	A4	D6	00284		INCL	IRA+4	:	
						64	D7	00287		DECL	IRA+12	:	
			09			65	D1	00289	39\$:	C MPL	KHAR, #9	:	0596
						24	13	0028C		BEQL	43\$:	
20	50	63	01			01	EF	0028E		EXTZV	#1, #1, SCA+168, R0	:	0599
	A3	01	01			50	F0	00293		INSV	R0, #1, #1, SCA+200	:	
							04	00299		RET		:	0593
						64	D5	0029A	40\$:	TSTL	IRA+12	:	0608
						08	14	0029C		BGTR	41\$:	
			65			56	9A	0029E		MOVZBL	R6, KHAR	:	
			64			01	CE	002A1		MNEGL	#1, IRA+12	:	
						09	11	002A4		BRB	42\$:	
			65		F8	B4	9A	002A6	41\$:	MOVZBL	@IRA+4, KHAR	:	
					F8	A4	D6	002AA		INCL	IRA+4	:	
						64	D7	002AD		DECL	IRA+12	:	
			09			65	D1	002AF	42\$:	C MPL	KHAR, #9	:	0609
						01	12	002B2	43\$:	BNEQ	44\$:	
							04	002B4		RET		:	
20	A3	01	00			63	F0	002B5	44\$:	INSV	SCA+168, #0, #1, SCA+200	:	0612
							04	002BB		RET		:	0606
			03		F4	A3	E9	002BC	45\$:	BLBC	SCA+156, 46\$:	0622
			6B			00	FB	002C0		CALLS	#0, XR	:	0625
			48		B8	A3	E9	002C3	46\$:	BLBC	SCA+96, 47\$:	0627
					B8	A3	D4	002C7		CLRL	SCA+96	:	0632
FF58	C3				FF78	C3	7D	002CA		MOVQ	SCA+37, SCA	:	0633
FF60	C3				80	A3	7D	002D1		MOVQ	SCA+40, SCA+8	:	0635
FF68	C3				FF78	C3	D0	002D7		MOVL	SCA+32, SCA+16	:	0637
FF70	C3				FF7C	C3	D0	002DE		MOVL	SCA+36, SCA+24	:	0638
FF6C	C3				80	A3	D0	002E5		MOVL	SCA+40, SCA+20	:	0639
FF74	C3				84	A3	D0	002EB		MOVL	SCA+44, SCA+28	:	0640
88	A3				A8	A3	7D	002F1		MOVQ	SCA+80, SCA+48	:	0642
90	A3				B0	A3	7D	002F6		MOVQ	SCA+88, SCA+56	:	0644
98	A3				A8	A3	D0	002FB		MOVL	SCA+80, SCA+64	:	0646
A0	A3				AC	A3	D0	00300		MOVL	SCA+84, SCA+72	:	0647
9C	A3				B0	A	D0	00305		MOVL	SCA+88, SCA+68	:	0648
A4	A3				B4	A3	D0	0030A		MOVL	SCA+92, SCA+76	:	0649
1C	A3					02	8A	0030F	47\$:	BICB2	#2, SCA+196	:	0653
						20	DD	00313		PUSHL	#32	:	0654
			6A			01	FB	00315		CALLS	#1, ENDCHR	:	
					F8	A3	D4	00318		CLRL	SCA+160	:	0655
28	A3					01	D0	0031B		MOVL	#1, SCA+208	:	0656
					01	12	31	0031F		BRW	67\$:	0657
			08		10	A3	E9	00322	48\$:	BLBC	SCA+184, 49\$:	0664
00000000V	EF					00	FB	00326		CALLS	#0, SUBXR	:	0666
						04	0032D		RET		:		
			6B			00	FB	0032E	49\$:	CALLS	#0, XR	:	0668
						04	00331		RET		:	0662	

				64	D5	00332	50\$:	TSTL	IRA+12	0675
				08	14	00334		BGTR	51\$	
	65			56	9A	00336		MOVZBL	R6, KHAR	
	64			01	CE	00339		MNEGL	#1, IRA+12	
				09	11	0033C		BRB	52\$	
	65	F8		B4	9A	0033E	51\$:	MOVZBL	@IRA+4, KHAR	
		F8		A4	D6	00342		INCL	IRA+4	
				64	D7	00345		DECL	IRA+12	
	56	70		A3	D1	00347	52\$:	CMPL	SCA+280, R6	0676
				0A	13	0034B		BEQL	53\$	
	20			65	D1	0034D		CMPL	KHAR, #32	0677
				05	13	00350		BEQL	53\$	
	09			65	D1	00352		CMPL	KHAR, #9	0678
				11	12	00355		BNEQ	54\$	
7E	F8	A4	F4	A4	C3	00357	53\$:	SUBL3	IRA, IRA+4, -(SP)	0681
			F4	A4	DD	0035D		PUSHL	IRA	
			00000000G	8F	DD	00360		PUSHL	#RNFFNA	
				5B	11	00366		BRB	62\$	
	56			65	D1	00368	54\$:	CMPL	KHAR, R6	0684
				07	12	0036B		BNEQ	55\$	
				09	DD	0036D		PUSHL	#9	0687
			10	A8	9F	0036F		PUSHAB	P.AAC	
				33	11	00372		BRB	61\$	
01		63		04	E0	00374	55\$:	BBS	#4, SCA+168, 56\$	0692
				04		00378		RET		
				01	DD	00379	56\$:	PUSHL	#1	0697
				7E	7C	0037B	57\$:	CLRQ	-(SP)	
	00000000G	EF		03	FB	0037D		CALLS	#3, ENDWRD	
			28	A3	D4	00384		CLRL	SCA+208	0698
				04		00387		RET		0673
				64	D5	00388	58\$:	TSTL	IRA+12	0706
				08	14	0038A		BGTR	59\$	
	65			56	9A	0038C		MOVZBL	R6, KHAR	
	64			01	CE	0038F		MNEGL	#1, IRA+12	
				09	11	00392		BRB	60\$	
	65	F8		B4	9A	00394	59\$:	MOVZBL	@IRA+4, KHAR	
		F8		A4	D6	00398		INCL	IRA+4	
				64	D7	0039B		DECL	IRA+12	
	56			65	D1	0039D	60\$:	CMPL	KHAR, R6	0708
				29	12	003A0		BNEQ	63\$	
				0A	DD	003A2		PUSHL	#10	0711
			1L	A8	9F	003A4		PUSHAB	P.AAD	
			00000000G	8F	DD	003A7	61\$:	PUSHL	#RNFFEL	
7E	00000000G	EF		03	FB	003AD		CALLS	#3, ERM	
	F8	A4	F4	A4	C3	003B4		SUBL3	IRA, IRA+4, -(SP)	0712
			F4	A4	DD	003BA		PUSHL	IRA	
			00000000G	8F	DD	003BD		PUSHL	#RNFFSTR	
	00000000G	EF		03	FB	003C3	62\$:	CALLS	#3, ERMS	
				04		003CA		RET		0710
	56	70		A3	D1	003CB	63\$:	CMPL	SCA+280, R6	0716
				11	12	003CF		BNEQ	64\$	
7E	F8	A4	F4	A4	C3	003D1		SUBL3	IRA, IRA+4, -(SP)	0720
			F4	A4	DD	003D7		PUSHL	IRA	
			00000000G	8F	DD	003DA		PUSHL	#RNFFNA	
				21	11	003E0		BRB	65\$	
4E		63		02	E1	003E2	64\$:	BBC	#2, SCA+168, 67\$	0723
		52	00000000G	EF	D0	003E6		MOVL	MRA, R2	0727

50	0C	A2	03	C1	003ED	ADDL3	#3, 12(R2), R0	:
		50	A2	D1	003F2	CMPL	8(R2), R0	:
			14	18	003F6	BGEQ	66\$:
			64	DD	003F8	PUSHL	IRA+12	0729
			F8	A4	DD	003FA	PUSHL	IRA+4
00000000G	EF	00000000G	8F	DD	003FD	PUSHL	#RNFLTC	:
			03	FB	00403	65\$: CALLS	#3, ERMS	:
			28	11	0040A	BRB	67\$:
	50		04	A2	9E	0040C	66\$: MOVAB	4(R2), R0
	00	B0		56	90	00410	MOVB	R6, @0(R0)
				60	D6	00414	INCL	(R0)
			0C	A2	D6	00416	INCL	12(R2)
	00	B0	4F	8F	90	00419	MOVB	#79, @0(R0)
				60	D6	0041E	INCL	(R0)
			0C	A2	D6	00420	INCL	12(R2)
	00	B0		65	90	00423	MOVB	KHAR, @0(R0)
				60	D6	00427	INCL	(R0)
			0C	A2	D6	00429	INCL	12(R2)
54	A3		03	C0	0042C	ADDL2	#3, SCA+252	0736
18	A3		04	88	00430	B!SB2	#4, SCA+192	0737
			64	D5	00434	67\$: TSTL	IRA+12	0799
			07	14	00436	BGTR	68\$:
	65			56	9A	00438	MOVZBL	R6, KHAR
	64			01	CE	0043B	MNEGL	#1, IRA+12
				04	0043E	RET		:
	65	F8	B4	9A	0043F	68\$: MOVZBL	@IRA+4, KHAR	:
		F8	A4	D6	00443	INCL	IRA+4	:
			64	D7	00446	DECL	IRA+12	:
			04	00448	RET			0811

; Routine Size: 1097 bytes, Routine Base: \$CODE\$ + 0000

```

686 0812 1 GLOBAL ROUTINE SUBXR : NOVALUE =
687 0813 1
688 0814 1 |++
689 0815 1 | FUNCTIONAL DESCRIPTION:
690 0816 1 |
691 0817 1 |     This routine is called when RUNOFF is processing a .SUBINDEX or
692 0818 1 |     .ENTRY command, and a Subindex flag is encountered. The character
693 0819 1 |     sequence that the previous Subindex flag started is terminated, and the
694 0820 1 |     next one is set up.
695 0821 1 |
696 0822 1 | FORMAL PARAMETERS: None
697 0823 1 |
698 0824 1 | IMPLICIT INPUTS: None
699 0825 1 |
700 0826 1 | IMPLICIT OUTPUTS: None
701 0827 1 |
702 0828 1 | ROUTINE VALUE:
703 0829 1 | COMPLETION CODES: None
704 0830 1 |
705 0831 1 | SIDE EFFECTS: None
706 0832 1 |
707 0833 1 | --
708 0834 1 |
709 0835 2 | BEGIN
710 0836 2 | !Always position past the Subindex flag
711 0837 2 | KCNS ();
712 0838 2 | !Skip spaces/tabs preceding the next item.
713 0839 2 | RSKIPS (IRA);
714 0840 2 |
715 0841 2 | !Make sure user didn't put the Subindex flag at the end of
716 0842 2 | !the line.
717 0843 2 | IF .KHAR EQL RINTES                !End of line?
718 0844 2 | THEN
719 0845 3 |     BEGIN
720 0846 3 |     ERM (RNFFEL, CH$PTR (UPLIT ('SUBINDEX')), 8);
721 0847 3 |     ERMS (RNFSR, .FS_START (IRA), CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)) - 1);
722 0848 3 |     RETURN
723 0849 2 |     END;
724 0850 2 |
725 0851 2 | !Make sure user didn't put the Subindex flag at the start of the line.
726 0852 2 | !The check for the start of the line is done by seeing if there
727 0853 2 | !is anything in the index output buffer yet, as would be the case
728 0854 2 | !if the two pointers are indeed equal. On top of that, it's
729 0855 2 | !important to take account of single-character entries. Remember
730 0856 2 | !that ENDCHR won't put a character into the MRA until the next
731 0857 2 | !character forces it out. So checking for it being the first character
732 0858 2 | !detects the one-character-entry case.
733 0859 2 | IF .SCA_FC                        !First character?
734 0860 3 |     AND (.FS_START (MRA) EQL .FS_NEXT (MRA))!Start of line?
735 0861 2 | THEN
736 0862 3 |     BEGIN
737 0863 3 |     ERMS (RNFFNA,
738 0864 3 |           .FS_START (IRA),
739 0865 3 |           CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)) - 1);
740 0866 3 |     RETURN
741 0867 2 |     END;
742 0868 2 |

```

```

743 0869 2 !Detect '>>' and complain.
744 0870 2 !The check is done by looking back at what's been generated to see if
745 0871 2 !all there is is a justification mark, to separate words. Similarly,
746 0872 2 !the case of a one-character entry is taken into account.
747 0873 3 BEGIN
748 0874 3 LOCAL
749 0875 3 TEMP_PTR;
750 0876 3 TEMP_PTR = CH$PLUS(.FS_NEXT (MRA), -3); !Point to start of a sequence.
751 0877 4 IF (CH$RCHAR A (TEMP_PTR) EQL RINTES)
752 0878 4 AND (CH$RCHAR (.TEMP_PTR) EQL %C'J')
753 0879 4 AND .SCA_FC
754 0880 3 THEN
755 0881 4 BEGIN
756 0882 4 ERMS (RNFFNA,
757 0883 4 .FS_START (IRA),
758 0884 4 CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)) - 1);
759 0885 4 RETURN
760 0886 4 END
761 0887 2 END;
762 0888 2
763 0889 2 IF .SCA_WRD_CPEND NEQ RINTES
764 0890 2 THEN
765 0891 2 ENDWRD (FALSE, FALSE, FALSE)
766 0892 2 ELSE
767 0893 2 !Dump trailing spaces
768 0894 3 BEGIN
769 0895 3 LOCAL
770 0896 3 TEMP_PTR;
771 0897 3
772 0898 3 FS_NEXT (MRA) = CH$PLUS (.FS_NEXT (MRA), -.SCA_WRD_LST_SP);
773 0899 3 FS_LENGTH (MRA) = .FS_LENGTH (MRA) - .SCA_WRD_LST_SP;
774 0900 3 SCA_WRD_LST_SP = 0;
775 0901 3
776 0902 3 !Check for wierd things like .X ^^ (spaces only), or .X a>^^ (spaces)>etc
777 0903 3 TEMP_PTR = CH$PLUS(.FS_NEXT (MRA), -3); !Point to start of a sequence.
778 0904 5 IF (CH$RCHAR A (TEMP_PTR) EQL RINTES)
779 0905 4 AND (CH$RCHAR (.TEMP_PTR) EQL %C'J')) !Catches .X whatever>^^ (spaces)>whatever
780 0906 4 OR (.FS_START (MRA) EQL .FS_NEXT (MRA)) !Catches .X^^ (spaces)>whatever
781 0907 3 THEN
782 0908 4 BEGIN
783 0909 4 ERMS (RNFFNA,
784 0910 4 .FS_START (IRA),
785 0911 4 CH$DIFF (.FS_NEXT (IRA), .FS_START (IRA)) - 1);
786 0912 4 RETURN
787 0913 4 END
788 0914 2 END;
789 0915 2
790 0916 2 !An end of word marker separates character sequences.
791 0917 2 FS_WCHAR (MRA, RINTES);
792 0918 2 FS_WCHAR (MRA, %C'J');
793 0919 2 FS_WCHAR (MRA, %C' ');
794 0920 2 TSF_INT_HL = .TSF_INT_HL + 3;
795 0921 2 TSF_JUS_CNT = .TSF_JUS_CNT + 1;
796 0922 2 SCA_WRD_PNTR = .FS_NEXT (MRA)
797 0923 1 END;

```

!End of SUBXR

58	45	44	4E	49	42	55	53	00028	P.AAE:	.ASCII	\SUBINDEX\	:
										.PSECT	\$PLITS,NOWRT,NOEXE,2	
										.PSECT	\$CODE\$,NOWRT,2	
										.ENTRY	SUBXR, Save R2,R3,R4,R5,R6,R7	0812
										MOVAB	KHAR, R7	
										MOVAB	MRA, R6	
										MOVZBL	#RINTES, R5	
										MOVAB	SCA+332, R4	
										MOVAB	IRA, R3	
										TSTL	IRA+12	0837
										BGTR	1\$	
										MOVZBL	R5, KHAR	
										MNEGL	#1, IRA+12	
										BRB	2\$	
										MOVZBL	@IRA+4, KHAR	
										INCL	IRA+4	
										DECL	IRA+12	
										PUSHL	R3	0839
										CALLS	#1, RSKIPS	
										CMPL	KHAR, R5	0843
										BNEQ	3\$	
										PUSHL	#8	0846
										PUSHAB	P.AAE	
										PUSHL	#RNFFEL	
										CALLS	#3, ERM	
										SUBL3	IRA, IRA+4, R0	0847
										PUSHAB	-1(R0)	
										PUSHL	IRA	
										PUSHL	#RNFSTR	
										BRB	9\$	
										BLBC	SCA+148, 4\$	0859
										MOVL	MRA, R0	0860
										CMPL	(R0), 4(R0)	
										BEQL	8\$	
										MOVL	MRA, R0	0876
										SUBL3	#3, 4(R0), TEMP_PTR	
										MOVZBL	(TEMP_PTR)+, R1	0877
										CMPL	R1, R5	
										BNEQ	5\$	
										CMPB	(TEMP_PTR), #74	0878
										BNEQ	5\$	
										BLBS	SCA+148, 8\$	0879
										CMPL	SCA+280, R5	0889
										BEQL	6\$	
										CLRQ	-(SP)	0891
										CLRL	-(SP)	
										CALLS	#3, ENDWRD	
										BRB	10\$	
										MOVL	MRA, R0	0898
										SUBL2	SCA+332, 4(R0)	
										SUBL2	SCA+332, 12(R0)	0899

51	04	A0		64	D4	000B6	CLRL	SCA+332	:	0900	
		52		03	C3	000B8	SUBL3	#3, 4(R0), TEMP_PTR	:	0903	
		55		81	9A	000BD	MOVZBL	(TEMP_PTR)+, R2-	:	0904	
				52	D1	000C0	CMPL	R2, R5	:		
	4A	8F		06	12	000C3	BNEQ	7\$:		
				61	91	000C5	CMPB	(TEMP_PTR), #74	:	0905	
	04	A0		06	13	000C9	BEQL	8\$:		
				60	D1	000CB	CMPL	(R0), 4(R0)	:	0906	
50	04	A3		18	12	000CF	BNEQ	10\$:		
			FF	63	C3	000D1	SUBL3	IRA, IRA+4, R0	:	0911	
				A0	9F	000D6	PUSHAB	-1(R0)	:		
				63	DD	000D9	PUSHL	IRA	:	0910	
			00000000G	8F	DD	000DB	PUSHL	#RNFFNA	:	0909	
	00	00		03	FB	000E1	CALLS	#3, ERMS	:		
				04	00	000E8	RET		:	0908	
				66	D0	000E9	MOVL	MRA, R0	:	0917	
				A0	9E	000EC	MOVAB	4(R0), R1	:		
	00	B1		55	90	000F0	MOVB	R5, @0(R1)	:		
				61	D6	000F4	INCL	(R1)	:		
			0C	A0	D6	000F6	INCL	12(R0)	:		
	00	B1		8F	90	000F9	MOVB	#74, @0(R1)	:	0918	
				61	D6	000FE	INCL	(R1)	:		
			0C	A0	D6	00100	INCL	12(R0)	:		
	00	B1		20	90	00103	MOVB	#32, @0(R1)	:	0919	
				61	D6	00107	INCL	(R1)	:		
			0C	A0	D6	00109	INCL	12(R0)	:		
			50 00000000G	EF	D0	0010C	MOVL	TSF, R0	:		
				03	C0	00113	ADDL2	#3, (R0)	:	0920	
				A0	D6	00116	INCL	32(R0)	:	0921	
	AC	A4		20	A0	D6	00119	MOVL	(R1), SCA+248	:	0922
				61	D0	00119	MOVL	(R1), SCA+248	:	0922	
				04	00	0011D	RET		:	0923	

: Routine Size: 286 bytes, Routine Base: \$CODE\$ + 0449

```
799 0924 1 GLOBAL ROUTINE XR : NOVALUE =
800 0925 1
801 0926 1 +-
802 0927 1 FUNCTIONAL DESCRIPTION:
803 0928 1
804 0929 1 This routine is called when an Index flag is seen. It is also
805 0930 1 called when a space is seen at the end of a word, and that word is
806 0931 1 to be entered into the index.
807 0932 1
808 0933 1 FORMAL PARAMETERS: None
809 0934 1
810 0935 1 IMPLICIT INPUTS: None
811 0936 1
812 0937 1 IMPLICIT OUTPUTS: None
813 0938 1
814 0939 1 ROUTINE VALUE:
815 0940 1 COMPLETION CODES: None
816 0941 1
817 0942 1 SIDE EFFECTS: None
818 0943 1
819 0944 1 --
820 0945 1
821 0946 2 BEGIN
822 0947 2
823 0948 2 IF .KHAR EQL .FLG? [IND_FLAG, FLAG_CHARACTER]
824 0949 2 THEN
825 0950 2 KCNS (); !Position past Index flag
826 0951 2
827 0952 2 !If indexing is already on, terminate current phrase and enter
828 0953 2 !it into the index.
829 0954 2
830 0955 2 IF .SCA_X_FLAG
831 0956 2 THEN
832 0957 3 BEGIN
833 0958 3 OUTXPH (); !Output word to index.
834 0959 3 RETURN;
835 0960 3 END
836 0961 2 ELSE
837 0962 2 !Turn on indexing if indexing is wanted.
838 0963 2 SCA_X_FLAG = .SCA_DO_IND;
839 0964 2
840 0965 2 IF .SCA_X_FLAG
841 0966 2 THEN
842 0967 2 !The index flag has just been turned on. Initialize the
843 0968 2 !work areas for the Index flag.
844 0969 3 BEGIN
845 0970 3 FS_INIT (XMRA);
846 0971 3
847 0972 3 INCR I FROM 0 TO TSF_SIZE - 1 DO
848 0973 3 XTSE [I] = 0;
849 0974 3
850 0975 2 END;
851 0976 2
852 0977 1 END; !End of XR
```

				003C 00000	.ENTRY	XR, Save R2,R3,R4,R5		0924
		55	00000000G	EF 9E 00002	MOVAB	KHAR, R5		
		54	00000000G	FF 9E 00009	MOVAB	SCA+156, R4		
		53	00000000G	EF 9E 00010	MOVAB	XMRA, R3		
		52	00000000G	EF 9E 00017	MOVAB	IRA+12, R2		
			00000000G	EF	65 D1 0001E	C MPL	KHAR, FLGT+112	0948
					16 12 00025	BNEQ	2\$	
					62 D5 00027	TSTL	IRA+12	0950
					09 14 00029	BGTR	1\$	
		65	00G	8F 9A 0002B	MOVZBL	#RINTES, KHAR		
		62		01 CE 0002F	MNEGL	#1, IRA+12		
					09 11 00032	BRB	2\$	
		65	F8	B2 9A 00034 1\$:	MOVZBL	@IRA+4, KHAR		
			F8	A2 D6 00038	INCL	IRA+4		
					62 D7 0003B	DECL	IRA+12	
		08		64 E9 0003D 2\$:	BLBC	SCA+156, 3\$		0955
			00000000G	EF	00 FB 00040	CALLS	#0, OUTXPH	0958
					04 00047	RET		0957
64	OC	A4		01	03 EF 00048 3\$:	EXTZV	#3, #1, SCA+168, SCA+156	0963
				18	64 E9 0004E	BLBC	SCA+156, 5\$	0965
					A3 D4 00051	CLRL	XMRA+12	0970
		63	OC	A3 9E 00054	MOVAB	XMRA+16, XMRA		
			10	63 D0 00058	MOVL	XMRA, XMRA+4		
		04	A3	50 D4 0005C	CLRL	I		0972
					50 D4 0005E 4\$:	CLRL	XTSF[I]	0973
		F5		50	00000000GEF40	A0BLEQ	#39, I, 4\$	
					27 F3 00065	RET		0977
					04 00069 5\$:			

: Routine Size: 106 bytes, Routine Base: \$CODE\$ + 0567

: 853	0978	1		
: 854	0979	1	END	!End of module
: 855	0980	0	ELUDOM	

PSECT SUMMARY

Name	Bytes	Attributes
\$OUNDS	8	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	48	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1489	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Symbols -----		Pages Mapped	Processing Time
	Total	Loaded Percent		

DOFLG
V04-000

Process flags
Module Level Declarations

E 7
16-Sep-1984 00:13:49
14-Sep-1984 13:06:00

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[RUNOFF.SRC]DOFLG.BLI;1 Page 27 (6)

DOO
V04

```

:
: $255$DUA28:[SYSLIB]XPORT.L32;1          590      0      0      252      00:00.1
: -$255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1    1248     100     8      86      00:00.3

```

COMMAND QUALIFIERS

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

```

: Size:          1489 code + 56 data bytes
: Run Time:      00:40.3
: Elapsed Time: 01:29.0
: Lines/CPU Min: 1457
: Lexemes/CPU-Min: 24624
: Memory Used:  360 pages
: Compilation Complete

```


