



```

NN      NN  DDDDDDDD  XX      XX  TTTTTTTTTT  MM      MM  SSSSSSSS
NN      NN  DDDDDDDD  XX      XX  TTTTTTTTTT  MM      MM  SSSSSSSS
NN      NN  DD        DD  XX      XX  TT        MM      MM  SS
NN      NN  DD        DD  XX      XX  TT        MM      MM  SS
NNNN    NN  DD        DD  XX  XX    TT        MM  MM  MM  SS
NNNN    NN  DD        DD  XX  XX    TT        MM  MM  MM  SS
NN      NN  NN  NN  DD  DD  XX      XX  TT        MM      MM  SSSSSS
NN      NN  NN  NN  DD  DD  XX      XX  TT        MM      MM  SSSSSS
NN      NN  NN  NN  DD  DD  XX  XX    TT        MM      MM  SS
NN      NN  NN  NN  DD  DD  XX  XX    TT        MM      MM  SS
NN      NN  NN  NN  DD  DD  XX  XX    TT        MM      MM  SS
NN      NN  NN  NN  DD  DD  XX  XX    TT        MM      MM  SS
NN      NN  DDDDDDDD  XX      XX  TT        MM      MM  SSSSSSSS
NN      NN  DDDDDDDD  XX      XX  TT        MM      MM  SSSSSSSS

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LL      LL  IIIIII  SSSSSSSS
LL      LL  IIIIII  SSSSSSSS
LL      LL  II      SS
LL      LL  II      SS
LL      LL  II      SS
LL      LL  II      SS
LL      LL  II      SSSSSS
LL      LL  II      SSSSSS
LL      LL  II      SS
LL      LL  II      SS
LL      LL  II      SS
LL      LL  II      SS
LLLLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLLLL  IIIIII  SSSSSSSS

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```

1 0001 0 %TITLE 'NDXTMS -- RUNOFF to TMS-11 conversion'
2 0002 0 MODULE NDXTMS (IDENT = 'V04-000'
3 0003 0 %BLISS32 [, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE, NONEXTERNAL = LONG_RELATIVE)]
4 0004 0 ) =
5 0005 1 BEGIN
6 0006 1
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 **
33 0033 1 FACILITY:
34 0034 1 DSR (Digital Standard RUNOFF) /DSRPLUS DSRINDEX/INDEX Utility
35 0035 1
36 0036 1 ABSTRACT:
37 0037 1 This module contains code to convert RUNOFF input text lines to
38 0038 1 TMS-11 text lines.
39 0039 1
40 0040 1 ENVIRONMENT: Transportable
41 0041 1
42 0042 1 AUTHOR: JPK
43 0043 1
44 0044 1 CREATION DATE: February 1982
45 0045 1
46 0046 1 MODIFIED BY:
47 0047 1
48 0048 1 003 JPK00015 04-Feb-1983
49 0049 1 Cleaned up module names, modified revision history to
50 0050 1 conform with established standards. Updated copyright dates.
51 0051 1
52 0052 1 002 JPK00012 24-Jan-1983
53 0053 1 Modified NDXVMSMSG.MSG to define error messages for both
54 0054 1 DSRINDEX and INDEX.
55 0055 1 Added require of NDXVMSREQ.R32 to NDXOUT, NDXFMT, NDXDAT,
56 0056 1 INDEX, NDXMSG, NDXXTN, NDXTMS, NDXVMS and NDXPAG for BLISS32.
57 0057 1 Since this file defines the error message literals,

```

NDXTMS
V04-000

NDXTMS -- RUNOFF to TMS-11 conversion

K 9
16-Sep-1984 01:12:33
14-Sep-1984 13:07:18

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

Page 2
(1)

: 58
: 59
: 60
: 61

0058 1 !
0059 1 !
0060 1 !
0061 1 !--

the EXTERNAL REFERENCEs for the error message literals
have been removed.

ND
VO

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120 0399 1      26, 26, 26, 28, 26, 23, 28, 30, 13, 19, : A B C D E F G H I J
121 0400 1      30, 24, 36, 30, 28, 24, 28, 26, 23, 26, : K L M N O P Q R S T
122 0401 1      28, 26, 36, 30, 26, 24, : U V W X Y Z
123 0402 1      10, 18, 10, 19, 26, 19, : [ \ ] ^ _
124 0403 1      19, 21, 17, 21, 17, 12, 18, 21, 11, 11, : a b c d e f g h i j
125 0404 1      20, 11, 32, 21, 18, 21, 20, 14, 15, 14, : k l m n o p q r s t
126 0405 1      21, 19, 26, 19, 19, 17, : u v w x y z
127 0406 1      11, 9, 11, 19, 0, : ( ) ~ DEL
128 0407 1      REP 128 OF (0)); : Rest of control characters
129 0408 1
130 0409 1 GLOBAL
131 0410 1      CHRSIZE : VECTOR [256] INITIAL ( : TMS11 character size vector for 'E' format
132 0411 1      REP 32 OF (0) : NUL - US
133 0412 1      13, 12, 12, 28, 20, 32, 26, 12, 10, 10, : space ! " # $ % & ' ( )
134 0413 1      16, 32, 12, 20, 12, 10, : * + , - . /
135 0414 1      REP 10 OF (20), : 0 1 2 3 4 5 6 7 8 9
136 0415 1      12, 12, 30, 36, 30, 14, 36, : : ; < = > ? @
137 0416 1      24, 22, 24, 28, 18, 18, 28, 28, 10, 10, : A B C D E F G H I J
138 0417 1      22, 18, 32, 28, 30, 20, 30, 22, 18, 20, : K L M N O P Q R S T
139 0418 1      28, 24, 36, 22, 22, 22, : U V W X Y Z
140 0419 1      12, 12, 12, 12, 20, 12, : [ \ ] ^ _
141 0420 1      18, 20, 18, 20, 18, 10, 18, 20, 10, 10, : a b c d e f g h i j
142 0421 1      18, 10, 30, 20, 20, 20, 20, 12, 14, 10, : k l m n o p q r s t
143 0422 1      20, 18, 28, 18, 18, 18, : u v w x y z
144 0423 1      12, 8, 12, 12, 0, : ( ) ~ DEL
145 0424 1      REP 128 OF (0)); : Rest of control characters
146 0425 1
147 0426 1 OWN      ! Holds old file name when creating a new file
148 0427 1      OLD_FILE : $STR_DESCRIPTOR (CLASS = DYNAMIC, STRING = (0, 0));
149 0428 1
150 0429 1 OWN
151 0430 1      TMSCHR : INITIAL (0);      ! Number of characters written to output file
152 0431 1      FILE_NO : INITIAL (0);    ! Continuation file number
153 0432 1
154 0433 1
155 0434 1      ! EXTERNAL REFERENCES:
156 0435 1
157 0436 1 EXTERNAL LITERAL
158 0437 1      TAB : UNSIGNED (8);
159 0438 1
160 L 0439 1 %IF %BLISS (BLISS32)
161 0440 1 %THEN
162 0441 1
163 0442 1 EXTERNAL ROUTINE      ! File open error handling routine for BLISS32
164 0443 1      OPEN_ERROR;
165 0444 1
166 0445 1 %FI

```

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168 0446 1 %SBTTL 'GLOBAL ROUTINE RNOTMS - Generate TMS-11 Output from RUNOFF text'
169 0447 1
170 0448 1 GLOBAL ROUTINE RNOTMS (RNO_LEN, RNO_PTR, DSC) : NOVALUE =
171 0449 1
172 0450 1 ++
173 0451 1
174 0452 1 FUNCTIONAL DESCRIPTION:
175 0453 1
176 0454 1     This routine converts RUNOFF input text to TMS-11 input text
177 0455 1
178 0456 1 FORMAL PARAMETERS:
179 0457 1
180 0458 1     RNO_LEN - Length of input text
181 0459 1     RNO_PTR - CH$PTR to input text
182 0460 1     DSC     - Address of output string descriptor
183 0461 1
184 0462 1 IMPLICIT INPUTS:
185 0463 1
186 0464 1     None
187 0465 1
188 0466 1 IMPLICIT OUTPUTS:
189 0467 1
190 0468 1     None
191 0469 1
192 0470 1 ROUTINE VALUE:
193 0471 1 COMPLETION CODES:
194 0472 1
195 0473 1     None
196 0474 1
197 0475 1 SIDE EFFECTS:
198 0476 1
199 0477 1     None
200 0478 1 --
201 0479 2 BEGIN
202 0480 2 LOCAL
203 0481 2 LINE : VECTOR [CH$ALLOCATION (BUFFER_SIZE + 50)],
204 0482 2 LEADING_BLANKS,
205 0483 2 I_PTR,           ! Copy of input line pointer
206 0484 2 I_LEN,         ! Copy of input line length
207 0485 2 L_PTR,         ! Pointer to output line
208 0486 2 L_LEN,         ! Length of output line
209 0487 2 DOING_BOLD,   ! Bold sequence in progress
210 0488 2 DOING_ITALICS, ! Italic sequence in progress
211 0489 2 BOLD_CHAR,     ! Current character is bold
212 0490 2 ITALIC_CHAR, ! Current character is italic
213 0491 2 OPEN_QUOTE, ! Next " is an open quote if TRUE
214 0492 2 CH;         ! Current character
215 0493 2
216 0494 2 L_LEN = 0;      ! No characters in output string
217 0495 2 L_PTR = CH$PTR (LINE); ! Point to beginning of output string
218 0496 2 DOING_BOLD = FALSE; ! Not doing a bold string
219 0497 2 BOLD_CHAR = FALSE;   ! Current character is not bold
220 0498 2 DOING_ITALICS = FALSE; ! Not italicized string
221 0499 2 ITALIC_CHAR = FALSE; ! Current character is not italic
222 0500 2 OPEN_QUOTE = TRUE;   ! Next " is an open quote
223 0501 2
224 0502 2 I_LEN = .RNO_LEN;

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225 0503 2 I_PTR = CH$PLUS (.RNO_PTR, .RNO_LEN - 1);
226 0504 2
227 0505 2 DECR I FROM .RNO_LEN - 1 TO 0 DO
228 0506 2 BEGIN
229 0507 2
230 0508 2     Remove trailing whitespace
231 0509 2
232 0510 2     CH = CH$RCHAR (.I_PTR);
233 0511 2
234 0512 2     IF (.CH NEQ %C' ') AND (.CH NEQ TAB) THEN EXITLOOP;
235 0513 2
236 0514 2     I_LEN = .I;
237 0515 2     I_PTR = CH$PLUS (.I_PTR, -1);
238 0516 2     END;
239 0517 2
240 0518 2 I_PTR = .RNO_PTR;
241 0519 2
242 0520 2 DECR I FROM .I_LEN TO 1 DO
243 0521 2
244 0522 2     Convert leading tabs to "/u"'s
245 0523 2
246 0524 2     IF CH$RCHAR_A (I_PTR) EQL TAB
247 0525 2     THEN
248 0526 2     BEGIN
249 0527 2         CH$WCHAR_A (%C'/', L_PTR);
250 0528 2         CH$WCHAR_A (%C'u', L_PTR);
251 0529 2         L_LEN = .L_LEN + 2;
252 0530 2     END
253 0531 2     ELSE
254 0532 2     BEGIN
255 0533 2         I_LEN = .I;
256 0534 2         I_PTR = CH$PLUS (.I_PTR, -1);           ! Back up to account for overshoot
257 0535 2         EXITLOOP;
258 0536 2     END;
259 0537 2
260 0538 2 LEADING_BLANKS = 0;
261 0539 2 DECR I FROM .I_LEN TO 1 DO
262 0540 2
263 0541 2     Count the number of leading blanks
264 0542 2
265 0543 2     IF CH$RCHAR_A (I_PTR) EQL %C' '
266 0544 2     THEN
267 0545 2         LEADING_BLANKS = .LEADING_BLANKS + 1
268 0546 2     ELSE
269 0547 2     BEGIN
270 0548 2         I_LEN = .I;
271 0549 2         I_PTR = CH$PLUS (.I_PTR, -1);           ! Back up to account for overshoot
272 0550 2         EXITLOOP;
273 0551 2     END;
274 0552 2
275 0553 2 IF .LEADING_BLANKS
276 0554 2 THEN
277 0555 2 BEGIN
278 0556 2
279 0557 2     Odd number of leading blanks
280 0558 2
281 0559 2     I_LEN = .I_LEN + 1;

```



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282      0560      I_PTR = CH$PLUS (.I_PTR, -1);
283      0561
284      0562      LEADING_BLANKS = .LEADING_BLANKS - 1;
285      0563      END;
286      0564
287      0565      INCR I FROM 1 TO .LEADING_BLANKS / 2 DO
288      0566      BEGIN
289      0567      |
290      0568      | Insert indent sequence for each pair of leading blanks
291      0569      |
292      0570      | CH$WCHAR_A (%C'/', L_PTR);
293      0571      | CH$WCHAR_A (%C'm', L_PTR);
294      0572      | L_LEN = .L_LEN + 2;
295      0573      | END;
296      0574
297      0575      |
298      0576      | Process text portion of line
299      0577      |
300      0578      INCR I FROM 1 TO .I_LEN DO
301      0579      BEGIN
302      0580      IF .L_LEN GEQ BUFFER_SIZE
303      0581      THEN
304      0582      BEGIN
305      0583      |
306      0584      | String too long for buffer
307      0585      |
308      L 0586      | %IF %BLISS (BLISS32)
309      0587      | %THEN
310      0588      |
311      0589      | SIGNAL (INDEX$_TRUNCATED, 0, INDEX$_TEXTD, 2, .L_LEN, CH$PTR (LINE));
312      0590      |
313      U 0591      | %ELSE
314      0592      |
315      0593      | $XPO PUT MSG (SEVERITY = WARNING,
316      0594      | STRING = 'string too long - truncated',
317      0595      | STRING = $STR_CONCAT ('entry text: ', (.L_LEN, CH$PTR (LINE))));
318      U 0596      |
319      U 0597      | %FI
320      0598      |
321      0599      | EXITLOOP;
322      0600      | END;
323      0601
324      0602      CH = CH$RCHAR_A (I_PTR);
325      0603      | Get next character
326      0604
327      0605      SELECTONE .CH OF
328      0606      SET
329      0607      [%C'+']:
330      0608      |
331      0609      | Bold next character
332      0610      |
333      0611      | BOLD_CHAR = TRUE;
334      0612
335      0613      [%C'&']:
336      0614      |
337      0615      | Next character is italic
338      0616

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339      0617 3          ITALIC_CHAR = TRUE;
340      0618 3
341      0619 3          [XC'X']:
342      0620 4          BEGIN
343      0621 4
344      0622 4          | Overstrike previous character
345      0623 4
346      L 0624 4 %IF %BLISS (BLISS32)
347      0625 4 %THEN
348      0626 4
349      0627 4          SIGNAL (INDEX$_OVERSTRK, 0, INDEX$_TEXTD, 2, .RNO_LEN, .RNO_PTR);
350      0628 4
351      U 0629 4 %ELSE
352      U 0630 4
353      U 0631 4          $XPO PUT MSG (SEVERITY = WARNING,
354      U 0632 4          STRING = 'The following line contains an overstrike sequence',
355      U 0633 4          STRING = $STR_CONCAT ('entry text: ', (.RNO_LEN, .RNO_PTR)));
356      U 0634 4
357      0635 4 %FI
358      0636 4
359      0637 4          CH$WCHAR_A (XC'[' , L_PTR);
360      0638 4          CH$WCHAR_A (XC' ' , L_PTR);
361      0639 4          CH$WCHAR_A (XC')' , L_PTR);
362      0640 4          CH$WCHAR_A (XC']' , L_PTR);
363      0641 4          L_LEN = .L_LEN + 4;
364      0642 3          END;
365      0643 3
366      0644 3          [OTHERWISE]:
367      0645 4          BEGIN
368      0646 4
369      0647 4          | A 'normal' character
370      0648 4
371      0649 4          IF .CH EQL XC'_'
372      0650 4          THEN
373      0651 5          BEGIN
374      0652 5
375      0653 5          | Character is quoted.
376      0654 5          | Get character.
377      0655 5
378      0656 5          CH = CH$RCHAR_A (I_PTR);
379      0657 5          I = .I + 1;
380      0658 4          END;
381      0659 4
382      0660 4          IF NOT .BOLD_CHAR
383      0661 4          THEN
384      0662 5          BEGIN
385      0663 5
386      0664 5          | Do not bold this character
387      0665 5
388      0666 5          IF .DOING_BOLD
389      0667 6          AND (.CH NEQ XC' ')
390      0668 5          THEN
391      0669 6          BEGIN
392      0670 6
393      0671 6          | Bold is turned on and the current character is non-blank
394      0672 6
395      0673 6          CH$WCHAR_A (XC'[' , L_PTR); ! Turn off bold

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: 396 0674 6 CH$WCHAR_A (%C'f', L_PTR);
: 397 0675 6 CH$WCHAR_A (%C'r', L_PTR);
: 398 0676 6 L_LEN = .L_LEN + 3;
: 399 0677 6
: 400 0678 6 IF .DOING_ITALICS
: 401 0679 6 THEN
: 402 0680 7 BEGIN
: 403 0681 7
: 404 0682 7 | Must turn italics off too on since both bold
: 405 0683 7 | and italics use the same termination sequence
: 406 0684 7
: 407 0685 7 CH$WCHAR_A (%C'f', L_PTR);
: 408 0686 7 CH$WCHAR_A (%C'r', L_PTR);
: 409 0687 7 L_LEN = .L_LEN + 2;
: 410 0688 7
: 411 0689 7 IF .ITALIC_CHAR
: 412 0690 7 THEN
: 413 0691 8 BEGIN
: 414 0692 8
: 415 0693 8 | This character is italicized.
: 416 0694 8 | Turn italics back on.
: 417 0695 8
: 418 0696 8 CH$WCHAR_A (%C'f', L_PTR);
: 419 0697 8 CH$WCHAR_A (%C'i', L_PTR);
: 420 0698 8 L_LEN = .L_LEN + 2;
: 421 0699 8 END
: 422 0700 7 ELSE
: 423 0701 7
: 424 0702 7 | Character is not italicized.
: 425 0703 7 | Note that we've turned off italics
: 426 0704 7
: 427 0705 7 DOING_ITALICS = FALSE;
: 428 0706 6 END;
: 429 0707 6
: 430 0708 6 CH$WCHAR_A (%C']', L_PTR);
: 431 0709 6 L_LEN = .L_LEN + 1;
: 432 0710 6
: 433 0711 6 DOING_BOLD = FALSE;
: 434 0712 5 END;
: 435 0713 5 ELSE
: 436 0714 4 BEGIN
: 437 0715 5
: 438 0716 5 | Bold next character
: 439 0717 5
: 440 0718 5 IF NOT .DOING_BOLD
: 441 0719 5 THEN
: 442 0720 5 BEGIN
: 443 0721 6
: 444 0722 6 | Turn on bolding
: 445 0723 6
: 446 0724 6
: 447 0725 6 CH$WCHAR_A (%C'[', L_PTR);
: 448 0726 6 CH$WCHAR_A (%C'f', L_PTR);
: 449 0727 6 CH$WCHAR_A (%C'b', L_PTR);
: 450 0728 6 CH$WCHAR_A (%C']', L_PTR);
: 451 0729 6 L_LEN = .L_LEN + 4;
: 452 0730 6

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453 0731 6          DOING_BOLD = TRUE;
454 0732 5          END;
455 0733 5
456 0734 5          BOLD_CHAR = FALSE;          ! Reset bold character flag
457 0735 4          END;
458 0736 4
459 0737 4          IF NOT .ITALIC_CHAR
460 0738 4          THEN
461 0739 5              BEGIN
462 0740 5                  Do not italicize this character
463 0741 5
464 0742 5              IF .DOING_ITALICS
465 0743 5              AND (.CH NEQ %C' ')
466 0744 6              THEN
467 0745 5                  BEGIN
468 0746 6
469 0747 6
470 0748 6
471 0749 6
472 0750 6          CH$WCHAR_A (%C'[' , L_PTR); ! Turn off italics
473 0751 6          CH$WCHAR_A (%C'f' , L_PTR);
474 0752 6          CH$WCHAR_A (%C'r' , L_PTR);
475 0753 6          L_LEN = .L_LEN + 3;
476 0754 6
477 0755 6          IF .DOING_BOLD
478 0756 6          THEN
479 0757 7              BEGIN
480 0758 7
481 0759 7
482 0760 7
483 0761 7
484 0762 7
485 0763 7          CH$WCHAR_A (%C'f' , L_PTR);
486 0764 7          CH$WCHAR_A (%C'r' , L_PTR);
487 0765 7          CH$WCHAR_A (%C'f' , L_PTR);
488 0766 7          CH$WCHAR_A (%C'b' , L_PTR);
489 0767 6          L_LEN = .L_LEN + 4;
490 0768 6          END;
491 0769 6          CH$WCHAR_A (%C']' , L_PTR);
492 0770 6          L_LEN = .L_LEN + 1;
493 0771 6
494 0772 6          DOING_ITALICS = FALSE;
495 0773 5          END;
496 0774 5          ELSE
497 0775 4              BEGIN
498 0776 5
499 0777 5
500 0778 5
501 0779 5          CH$WCHAR_A (%C'[' , L_PTR); ! Italicize next character
502 0780 5          IF NOT .DOING_ITALICS
503 0781 5          THEN
504 0782 6              BEGIN
505 0783 6
506 0784 6
507 0785 6
508 0786 6          CH$WCHAR_A (%C'[' , L_PTR);
509 0787 6          CH$WCHAR_A (%C'f' , L_PTR);

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510 0788 6          CH$WCHAR_A (%C'i', L_PTR);
511 0789 6          CH$WCHAR_A (%C']', L_PTR);
512 0790 6          L_LEN = .L_LEN + 4;
513 0791 6
514 0792 6          DOING_ITALICS = TRUE;
515 0793 5          END;
516 0794 5
517 0795 5          ITALIC_CHAR = FALSE;          ! Reset flag
518 0796 4          END;
519 0797 4
520 0798 5          IF (.CH LSS %C' ') OR (.CH GTR %O'176')
521 0799 4          THEN
522 0800 5              BEGIN
523 0801 5                  Character is a control character
524 0802 5
525 0803 5                  IF .CH EQL TAB
526 0804 5                  THEN
527 0805 5                      BEGIN
528 0806 6                          TAB character
529 0807 6
530 0808 6                          CH$WCHAR_A (%C'/', L_PTR);
531 0809 6                          CH$WCHAR_A (%C'u', L_PTR);
532 0810 6                          L_LEN = .L_LEN + 2;
533 0811 6                          END
534 0812 6                      ELSE
535 0813 6                          BEGIN
536 0814 5                              Other control characters are illegal
537 0815 6
538 0816 6
539 0817 6
540 0818 6
541 L 0819 6 %IF %BLISS (BLISS32)
542 0820 6 %THEN
543 0821 6
544 0822 6          SIGNAL (INDEX$_CTRLCHAR, 0, INDEX$_TEXTD, 2, .RNO_LEN, .RNO_PTR);
545 0823 6
546 U 0824 6 %ELSE
547 0825 6
548 U 0826 6          $XPO PUT MSG (SEVERITY = WARNING,
549 U 0827 6          STRING = 'the following line contains control characters - ignored',
550 U 0828 6          STRING = $STR_CONCAT ('entry text: ', (.RNO_LEN, .RNO_PTR)));
551 U 0829 6
552 0830 6 %FI
553 0831 6
554 0832 5          END;
555 0833 5
556 0834 4          ELSE
557 0835 4              SELECTONE .CH OF
558 0836 4              SET
559 0837 4
560 0838 4              [%C' ']:
561 0839 5                  BEGIN
562 0840 5                      CH$MOVE (5, CH$PTR (UPLIT ('*n10*')), .L_PTR);
563 0841 5                      L_PTR = CH$PLUS (.L_PTR, 5);
564 0842 5                      L_LEN = .L_LEN + 5;
565 0843 4                      END;
566 0844 4

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```
567 0845 4 [XC'-']:
568 0846 5 BEGIN
569 0847 5 CH$WCHAR_A (XC'+', L_PTR);
570 0848 5 CH$WCHAR_A (XC'n', L_PTR);
571 0849 5 L_LEN = .L_LEN + 2;
572 0850 4 END;
573 0851 4
574 0852 4 [XC'+']:
575 0853 5 BEGIN
576 0854 5 CH$WCHAR_A (XC'+', L_PTR);
577 0855 5 CH$WCHAR_A (XC'a', L_PTR);
578 0856 5 L_LEN = .L_LEN + 2;
579 0857 4 END;
580 0858 4
581 0859 4 [XC '=']:
582 0860 5 BEGIN
583 0861 5 CH$WCHAR_A (XC'+', L_PTR);
584 0862 5 CH$WCHAR_A (XC'e', L_PTR);
585 0863 5 L_LEN = .L_LEN + 2;
586 0864 4 END;
587 0865 4
588 0866 4 [XC'+']:
589 0867 5 BEGIN
590 0868 5 CH$WCHAR_A (XC'+', L_PTR);
591 0869 5 CH$WCHAR_A (XC'p', L_PTR);
592 0870 5 L_LEN = .L_LEN + 2;
593 0871 4 END;
594 0872 4
595 0873 4 [XC'\']:
596 0874 5 BEGIN
597 0875 5 CH$WCHAR_A (XC'+', L_PTR);
598 0876 5 CH$WCHAR_A (XC's', L_PTR);
599 0877 5 L_LEN = .L_LEN + 2;
600 0878 4 END;
601 0879 4
602 0880 4 [XC '@']:
603 0881 5 BEGIN
604 0882 5 CH$WCHAR_A (XC'+', L_PTR);
605 0883 5 CH$WCHAR_A (XC't', L_PTR);
606 0884 5 L_LEN = .L_LEN + 2;
607 0885 4 END;
608 0886 4
609 0887 4 [XC '/']:
610 0888 5 BEGIN
611 0889 5 CH$WCHAR_A (XC'+', L_PTR);
612 0890 5 CH$WCHAR_A (XC'.', L_PTR);
613 0891 5 L_LEN = .L_LEN + 2;
614 0892 4 END;
615 0893 4
616 0894 4 [XC '!']:
617 0895 5 BEGIN
618 0896 5 CH$WCHAR_A (XC'+', L_PTR);
619 0897 5 CH$WCHAR_A (XC'v', L_PTR);
620 0898 5 L_LEN = .L_LEN + 2;
621 0899 4 END;
622 0900 4
623 0901 4 [XC '(']:
```

```

: 624 0902 5 BEGIN
: 625 0903 5 CH$WCHAR_A (%C'+', L_PTR);
: 626 0904 5 CH$WCHAR_A (%C'w', L_PTR);
: 627 0905 5 L_LEN = .L_LEN + 2;
: 628 0906 4 END;
: 629 0907 4
: 630 0908 4 [%C')']:
: 631 0909 5 BEGIN
: 632 0910 5 CH$WCHAR_A (%C'+', L_PTR);
: 633 0911 5 CH$WCHAR_A (%C'x', L_PTR);
: 634 0912 5 L_LEN = .L_LEN + 2;
: 635 0913 4 END;
: 636 0914 4
: 637 0915 4 [%C'<']:
: 638 0916 5 BEGIN
: 639 0917 5 CH$WCHAR_A (%C'+', L_PTR);
: 640 0918 5 CH$WCHAR_A (%C'y', L_PTR);
: 641 0919 5 L_LEN = .L_LEN + 2;
: 642 0920 4 END;
: 643 0921 4
: 644 0922 4 [%C'>']:
: 645 0923 5 BEGIN
: 646 0924 5 CH$WCHAR_A (%C'+', L_PTR);
: 647 0925 5 CH$WCHAR_A (%C'z', L_PTR);
: 648 0926 5 L_LEN = .L_LEN + 2;
: 649 0927 4 END;
: 650 0928 4
: 651 0929 4 [%C'[']:
: 652 0930 5 BEGIN
: 653 0931 5 CH$WCHAR_A (%C'+', L_PTR);
: 654 0932 5 CH$WCHAR_A (%C'(', L_PTR);
: 655 0933 5 L_LEN = .L_LEN + 2;
: 656 0934 4 END;
: 657 0935 4
: 658 0936 4 [%C']']:
: 659 0937 5 BEGIN
: 660 0938 5 CH$WCHAR_A (%C'+', L_PTR);
: 661 0939 5 CH$WCHAR_A (%C')', L_PTR);
: 662 0940 5 L_LEN = .L_LEN + 2;
: 663 0941 4 END;
: 664 0942 4
: 665 0943 4 [%C''']:
: 666 0944 5 BEGIN
: 667 0945 5 IF .OPEN_QUOTE
: 668 0946 5 THEN
: 669 0947 6 BEGIN
: 670 0948 6 |
: 671 0949 6 | Opening quote of quoted string
: 672 0950 6 |
: 673 0951 6 CH$WCHAR_A (%C''', L_PTR);
: 674 0952 6 CH$WCHAR_A (%C''', L_PTR);
: 675 0953 6
: 676 0954 6 OPEN_QUOTE = FALSE; ! Next quote is not an open quote
: 677 0955 6 END
: 678 0956 5 ELSE
: 679 0957 6 BEGIN
: 680 0958 6 |

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0999 4
1000 4
1001 4
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1003 3
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1005 3
1006 4
1007 4
1008 4
1009 4
1010 3
1011 3
1012 3
1013 3
1014 2
1015 2

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      ! Closing quote
      CH$WCHAR_A (%C''', L_PTR);
      CH$WCHAR_A (%C''', L_PTR);
      OPEN_QUOTE = TRUE;      ! Next quote is open quote
      END;

      L_LEN = .L_LEN + 2;
      END;

[OTHERWISE]:
      BEGIN
      ! A real normal character
      CH$WCHAR_A (.CH, L_PTR);
      L_LEN = .L_LEN + 1;
      END;

      TES;
      END;

      TES;
      END;

IF .DOING_BOLD OR .DOING_ITALICS
THEN
      BEGIN
      ! Turn off bold and italics
      CH$WCHAR_A (%C'[', L_PTR);
      L_LEN = .L_LEN + 1;

      IF .DOING_BOLD
      THEN
            BEGIN
            CH$WCHAR_A (%C'f', L_PTR);
            CH$WCHAR_A (%C'r', L_PTR);
            L_LEN = .L_LEN + 2;
            END;

      IF .DOING_ITALICS
      THEN
            BEGIN
            CH$WCHAR_A (%C'f', L_PTR);
            CH$WCHAR_A (%C'r', L_PTR);
            L_LEN = .L_LEN + 2;
            END;

      CH$WCHAR_A (%C']', L_PTR);
      L_LEN = .L_LEN + 1;
      END;

```



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: 738      1016 2      IF NOT .OPEN_QUOTE
: 739      1017 2      THEN
: 740      1018 2
: 741      1019 2      Saw an open quote but no close quote
: 742      1020 2
: 743      L 1021 2      %IF %BLISS (BLISS32)
: 744      1022 2      %THEN
: 745      1023 2      ! Signal errors for BLISS32
: 746      1024 2      SIGNAL (INDEX$_CLOSEQUOT, 0, INDEX$_TEXTD, 2, .RNO_LEN, .RNO_PTR);
: 747      1025 2
: 748      U 1026 2      %ELSE
: 749      1027 2      ! Use $XPO_PUT_MSG otherwise
: 750      1028 2
: 751      U 1029 2      $XPO_PUT_MSG (SEVERITY = WARNING,
: 752      U 1030 2      STRING = 'missing close quote',
: 753      U 1031 2      STRING = $STR_CONCAT ('entry text: ', (.RNO_LEN, .RNO_PTR)));
: 754      1032 2      %FI
: 755      1033 2
: 756      1034 2      $STR_COPY (STRING = (.L_LEN, CH$PTR (LINE)), TARGET = .DSC);
: 757      1035 1      END;

```

						.TITLE	NDXTMS NDXTMS -- RUNOFF to TMS-11 conversion					
						.IDENT	\V04-000\					
						.PSECT	\$SPLITS, NOWRT, NOEXE, 2					
00	00	00	2A	30	31	6E	2A	00000	P.AAA:	.ASCII	*n10*\<0><0><0>	:
						.PSECT	\$OWNS, NOEXE, 2					
						0000	00000	OLD_FILE:				:
						02	0E	00002	.WORD	0		
						00000000	00004	.BYTE	14, 2			
						00000000	00008	TMSCHR:	.LONG	0		
						00000000	0000C	FILE_NO:	.LONG	0		
						.PSECT	\$GLOBAL\$, NOEXE, 2					
						0000	00000	TMSTOF::	.WORD	0		
						02	0E	00002	.BYTE	14, 2		
						00000000	00004	.LONG	0			
						00000028	00008	TMSSIZ::	.LONG	40		
						00000000	0000C	CHRSIZ::	.BLKB	4		
0000001E	00000012	00000012	00000014	0000000E	00000000	00010	CHRSZA::	.LONG	0[32]			
00000018	00000012	0000000E	0000000E	0000000A	0000001C	00090	.LONG	13, 14, 20, 18, 18, 30, 28, 10, 14, 14, -				
						0000000B	000C0	.LONG	18, 24, 11, 18, 11, 12			
						00000012	000D0	.LONG	18[10]			
00000012	00000018	00000018	00000018	0000000C	0000000C	000F8	.LONG	12, 12, 24, 24, 24, 18, 30, 26, 26, 26, -				
0000001A	0000001C	0000001A	0000001A	0000001A	0000001E	00110	.LONG	28, 26, 23, 28, 30, 13, 19, 30, 24, 36, -				
0000001E	00000013	0000000D	0000001E	0000001C	00000017	00128	.LONG	30, 28, 24, 28, 26, 23, 26, 28, 26, 36, -				
0000001C	00000018	0000001C	0000001E	00000024	00000018	00140	.LONG	30, 26, 24, 10, 18, 10, 19, 26, 19, 19, -				
00000024	0000001A	0000001C	0000001A	00000017	0000001A	00158	.LONG	21, 17, 21, 17, 12, 18, 21, 11, 11, 20, -				
0000000A	00000012	0000000A	00000018	0000001A	0000001E	00170	.LONG	11, 32, 21, 18, 21, 20, 14, 15, 14, 21, -				
00000011	00000015	00000013	00000013	0000001A	00000013	00188	.LONG	19, 26, 19, 19, 17, 11, 9, 11, 19, 0				

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0000000B 00000015 00000012 0000000C 00000011 00000015 001A0
00000012 00000015 00000020 0000000B 00000014 0000000B 001B8
00000015 0000000E 0000000F 0000000E 00000014 00000015 001D0
0000000B 00000011 00000013 00000013 0000001A 00000013 001E8
                                00000000 00000013 0000000B 00000009 00200
                                00000000# 00210
                                00000000# 00410
00000020 00000014 0000001C 0000000C 0000000C 0000000D 00490
00000020 00000010 0000000A 0000000A 0000000C 0000001A 004A8
                                0000000A 0000000C 00000014 0000000C 004C0
                                00000014# 004D0
0000000E 0000001E 00000024 0000001E 0000000C 0000000C 004F8
00000012 0000001C 00000018 00000016 00000018 00000024 00510
00000016 0000000A 0000000A 0000001C 0000001C 00000012 00528
0000001E 00000014 0000001E 0000001C 00000020 00000012 00540
00000024 00000018 0000001C 00000014 00000012 00000016 00558
0000000C 0000000C 0000000C 00000016 00000016 00000016 00570
00000012 00000014 00000012 0000000C 00000014 00000014 00588
0000000A 00000014 00000012 0000000A 00000012 00000014 005A0
00000014 00000014 0000001E 0000000A 00000012 0000000A 005B8
00000014 0000000A 0000000E 0000000C 00000014 00000014 005D0
0000000C 00000012 00000012 00000012 0000001C 00000012 005E8
                                00000000 0000000C 0000000C 00000008 00600
                                00000000# 00610

```

```

                                .LONG 0[128]
                                .LONG 0[32]
CHRSIZE::.LONG 13, 12, 12, 28, 20, 32, 26, 12, 10, 10, -
                                .LONG 16, 32, 12, 20, 12, 10
                                .LONG 20[10]
                                .LONG 12, 12, 30, 36, 30, 14, 36, 24, 22, 24, -
                                28, 18, 18, 28, 28, 10, 10, 22, 18, 32, -
                                28, 30, 20, 30, 22, 18, 20, 28, 24, 36, -
                                22, 22, 22, 12, 12, 12, 12, 20, 12, 18, -
                                20, 18, 20, 18, 10, 18, 20, 10, 10, 18, -
                                10, 30, 20, 20, 20, 20, 12, 14, 10, 20, -
                                18, 28, 18, 18, 18, 12, 8, 12, 12, 0
                                .LONG 0[128]

```

```

TMSSTD== 20
MSPACE== 32
.EXTRN DSRINDEX$_BADLOGIC
.EXTRN DSRINDEX$_BADVALUE
.EXTRN DSRINDEX$_INSVIRMEM
.EXTRN DSRINDEX$_LINELENG
.EXTRN DSRINDEX$_NOREF
.EXTRN DSRINDEX$_OPENIN
.EXTRN DSRINDEX$_OPENOUT
.EXTRN DSRINDEX$_TOOMANY
.EXTRN DSRINDEX$_VALERR
.EXTRN DSRINDEX$_CANTBAL
.EXTRN DSRINDEX$_CLOSEQUOT
.EXTRN DSRINDEX$_CONFGUAL
.EXTRN DSRINDEX$_CTRLCHAR
.EXTRN DSRINDEX$_DOESNTFIT
.EXTRN DSRINDEX$_DUPBEGIN
.EXTRN DSRINDEX$_EMPTYIN
.EXTRN DSRINDEX$_IGNORED
.EXTRN DSRINDEX$_INVINPUT
.EXTRN DSRINDEX$_INVRECORD
.EXTRN DSRINDEX$_LASTCONT
.EXTRN DSRINDEX$_NOBEGIN
.EXTRN DSRINDEX$_NOEND
.EXTRN DSRINDEX$_NOINDEX
.EXTRN DSRINDEX$_NOLIST
.EXTRN DSRINDEX$_OVERSTRK
.EXTRN DSRINDEX$_SKIPPED
.EXTRN DSRINDEX$_SYNTAX
.EXTRN DSRINDEX$_TEXTFILE
.EXTRN DSRINDEX$_TOODEEP
.EXTRN DSRINDEX$_TOOFEW

```


		03	11	00085	BRB	12\$	0547		
	EA	50	F5	00087	SOBGTR	I, 9\$	0543		
	06	51	E9	0008A	BLBC	LEADING_BLANKS, 13\$	0553		
		56	D6	0008D	INCL	I_LEN	0559		
		5B	D7	0008F	DECL	I_PTR	0560		
		51	D7	00091	DECL	LEADING_BLANKS	0562		
	51	02	C6	00093	DIVL2	#2, R1	0565		
		50	D4	00096	CLRL	I			
		08	11	00098	BRB	15\$			
	87	6D2F	8F	B0	0009A	MOVW	#27951, (L_PTR)+	0570	
	58		02	C0	0009F	ADDL2	#2, L_LEN	0572	
F4	50		51	F3	000A2	AOBLEQ	R1, I, 14\$	0565	
		14	AE	D4	000A6	CLRL	I	0578	
			6C	11	000A9	BRB	20\$		
	000007D0	8F	58	D1	000AB	CMPL	L_LEN, #2000	0580	
			1F	19	000B2	BLSS	17\$		
		20	AE	9F	000B4	PUSHAB	LINE	0589	
			58	DD	000B7	PUSHL	L_LEN		
			02	DD	000B9	PUSHL	#2		
		00000000G	8F	DD	000BB	PUSHL	#DSRINDEX\$_TEXTD		
			7E	D4	000C1	CLRL	-(SP)		
		00000000G	8F	DD	000C3	PUSHL	#DSRINDEX\$ TRUNCATED		
	00000000G	00	06	FB	000C9	CALLS	#6, LIB\$SIGNAL		
			025C	31	000D0	BRW	62\$	0582	
		59	8B	9A	000D3	MOVZBL	(I_PTR)+, CH	0602	
		2A	59	D1	000D6	CMPL	CH, #42	0607	
			06	12	000D9	BNEQ	18\$		
	0C	AE	01	D0	000DB	MOVL	#1, BOLD_CHAR	0611	
			36	11	000DF	BRB	20\$		
		26	59	D1	000E1	CMPL	CH, #38	0613	
			06	12	000E4	BNEQ	19\$		
	04	AE	01	D0	000E6	MOVL	#1, ITALIC_CHAR	0617	
			2B	11	000EA	BRB	20\$		
		25	59	D1	000EC	CMPL	CH, #37	0619	
			29	12	000EF	BNEQ	21\$		
			5A	DD	000F1	PUSHL	R10	0627	
		04	AC	DD	000F3	PUSHL	RNO_LEN		
			02	DD	000F6	PUSHL	#2		
		00000000G	8F	DD	000F8	PUSHL	#DSRINDEX\$ _TEXTD		
			7E	D4	000FE	CLRL	-(SP)		
		00000000G	8F	DD	00100	PUSHL	#DSRINDEX\$ OVERSTRK		
	00000000G	00	06	FB	00106	CALLS	#6, LIB\$SIGNAL		
		87	5D63655B	8F	D0	0010D	MOVL	#1566795099, (L_PTR)+	0637
		58		04	C0	00114	ADDL2	#4, L_LEN	0641
			020E	31	00117	BRW	61\$	0604	
	0000005F	8F	59	D1	0011A	CMPL	CH, #95	0649	
			06	12	00121	BNEQ	22\$		
		59	8B	9A	00123	MOVZBL	(I_PTR)+, CH	0656	
		14	AE	D6	00126	INCL	I	0657	
		3D	0C	AE	E8	00129	BLBS	BOLD_CHAR, 25\$	0660
		4E	10	AE	E9	0012D	BLBC	DOING_BOLD, 27\$	0666
		20	59	D1	00131	CMPL	CH, #32	0667	
			49	13	00134	BEQL	27\$		
		87	665B	8F	B0	00136	MOVW	#26203, (L_PTR)+	0673
		87	72	8F	90	0013B	MOVW	#114, (L_PTR)+	0675
		58		03	C0	0013F	ADDL2	#3, L_LEN	0676
		19	08	AE	E9	00142	BLBC	DOING_ITALICS, 24\$	0678

	87	7266	8F	B0	00146	MOVW	#29286, (L_PTR)+	0685
	58		02	C0	0014B	ADDL2	#2, L_LEN	0687
	0A	04	AE	E9	0014E	BLBC	ITALIC_CHAR, 23\$	0689
	87	6966	8F	B0	00152	MOVW	#26982, (L_PTR)+	0696
	58		02	C0	00157	ADDL2	#2, L_LEN	0698
			03	11	0015A	BRB	24\$	0689
		08	AE	D4	0015C	23\$: CLRL	DOING_ITALICS	0705
	87	5D	8F	90	0015F	24\$: MOVW	#93, (L_PTR)+	0708
			58	D6	00163	INCL	L_LEN	0709
		10	AE	D4	00165	CLRL	DOING_BOLD	0711
			15	11	00168	BRB	27\$	0660
	0E	10	AE	E8	0016A	25\$: BLBS	DOING_BOLD, 26\$	0719
	87	5D62665B	8F	D0	0016E	MOVL	#1566729819, (L_PTR)+	0725
	58		04	C0	00175	ADDL2	#4, L_LEN	0729
10	AE		01	D0	00178	MOVL	#1, DOING_BOLD	0731
		0C	AE	D4	0017C	26\$: CLRL	BOLD_CHAR	0734
	2E	04	AE	E8	0017F	27\$: BLBS	ITALIC_CHAR, 29\$	0737
	3F	08	AE	E9	00183	BLBC	DOING_ITALICS, 31\$	0743
	20		59	D1	00187	CMPL	CH, #32	0744
			3A	13	0018A	BEQL	31\$	
	87	665B	8F	B0	0018C	MOVW	#26203, (L_PTR)+	0750
	87	72	8F	90	00191	MOVW	#114, (L_PTR)+	0752
	58		03	C0	00195	ADDL2	#3, L_LEN	0753
	0A	10	AE	E9	00198	BLBC	DOING_BOLD, 28\$	0755
	87	62667266	8F	D0	0019C	MOVL	#1650881126, (L_PTR)+	0762
	58		04	C0	001A3	ADDL2	#4, L_LEN	0766
	87	5D	8F	90	001A6	28\$: MOVW	#93, (L_PTR)+	0769
			58	D6	001AA	INCL	L_LEN	0770
		08	AE	D4	001AC	CLRL	DOING_ITALICS	0772
			15	11	001AF	BRB	31\$	0737
	0E	08	AE	E8	001B1	29\$: BLBS	DOING_ITALICS, 30\$	0780
	87	5D69665B	8F	D0	001B5	MOVL	#1567188571, (L_PTR)+	0786
	58		04	C0	001BC	ADDL2	#4, L_LEN	0790
08	AE		01	D0	001BF	MOVL	#1, DOING_ITALICS	0792
		04	AE	D4	001C3	30\$: CLRL	ITALIC_CHAR	0795
	20		59	D1	001C6	31\$: CMPL	CH, #32	0798
			09	19	001C9	BLSS	32\$	
0000007E	8F		59	D1	001CB	CMPL	CH, #126	
			31	15	001D2	BLEQ	34\$	
00000000G	8F		59	D1	001D4	32\$: CMPL	CH, #TAB	0804
			0A	12	001DB	BNEQ	33\$	
	87		2F	90	001DD	MOVW	#47, (L_PTR)+	0810
	67	75	8F	90	001E0	MOVW	#117, (L_PTR)	0811
			0084	31	001E4	BRW	41\$	
		04	5A	DD	001E7	33\$: PUSHL	R10	0822
			02	DD	001E9	PUSHL	RNO_LEN	
		00000000G	02	DD	001EC	PUSHL	#2	
			8F	DD	001EE	PUSHL	#DSRINDEX\$_TEXTD	
			7E	D4	001F4	CLRL	-(SP)	
		00000000G	8F	DD	001F6	PUSHL	#DSRINDEX\$ CTRLCHAR	
00000000G	00		06	FB	001FC	CALLS	#6, LIB\$SIGNAL	
			17	11	00203	BRB	35\$	0798
0000005F	8F		59	D1	00205	34\$: CMPL	CH, #95	0838
			11	12	0020C	BNEQ	36\$	
67 00000000'	EF		05	28	0020E	MOVW	#5, P.AAA, (L_PTR)	0840
	57		05	C0	00216	ADDL2	#5, L_PTR	0841
	58		05	C0	00219	ADDL2	#5, L_LEN	0842

		0109	31	0021C	35\$:	BRW	61\$		0835
	2D	59	D1	0021F	36\$:	CMPL	CH, #45		0845
		0A	12	00222		BNEQ	37\$		
	87	2B	90	00224		MOVB	#43, (L_PTR)+		0847
	67	6E	8F	90	00227	MOVB	#110, (E_PTR)		0848
		0081	31	0022B		BRW	46\$		
	2A	59	D1	0022E	37\$:	CMPL	CH, #42		0852
		0A	12	00231		BNEQ	38\$		
	87	2B	90	00233		MOVB	#43, (L_PTR)+		0854
	67	61	8F	90	00236	MOVB	#97, (L_PTR)		0855
		0084	31	0023A		BRW	48\$		
	3D	59	D1	0023D	38\$:	CMPL	CH, #61		0859
		0A	12	00240		BNEQ	39\$		
	87	2B	90	00242		MOVB	#43, (L_PTR)+		0861
	67	65	8F	90	00245	MOVB	#101, (E_PTR)		0862
		0083	31	00249		BRW	50\$		
	2B	59	D1	0024C	39\$:	CMPL	CH, #43		0866
		0A	12	0024F		BNEQ	40\$		
	87	2B	90	00251		MOVB	#43, (L_PTR)+		0868
	67	70	8F	90	00254	MOVB	#112, (E_PTR)		0869
		0082	31	00258		BRW	52\$		
0000005C	8F	59	D1	0025B	40\$:	CMPL	CH, #92		0873
		0A	12	00262		BNEQ	42\$		
	87	2B	90	00264		MOVB	#43, (L_PTR)+		0875
	67	73	8F	90	00267	MOVB	#115, (E_PTR)		0876
		0080	31	0026B	41\$:	BRW	54\$		
00000040	8F	59	D1	0026E	42\$:	CMPL	CH, #64		0880
		09	12	00275		BNEQ	43\$		
	87	2B	90	00277		MOVB	#43, (L_PTR)+		0882
	67	74	8F	90	0027A	MOVB	#116, (E_PTR)		0883
			7F	11	0027E	BRB	56\$		
	2F	59	D1	00280	43\$:	CMPL	CH, #47		0887
		08	12	00283		BNEQ	44\$		
	87	2B	90	00285		MOVB	#43, (L_PTR)+		0889
	67	2E	90	00288		MOVB	#46, (L_PTR)		0890
		72	11	0028B		BRB	56\$		
0000007C	8F	59	D1	0028D	44\$:	CMPL	CH, #124		0894
		09	12	00294		BNEQ	45\$		
	87	2B	90	00296		MOVB	#43, (L_PTR)+		0896
	67	76	8F	90	00299	MOVB	#118, (E_PTR)		0897
			7D	11	0029D	BRB	59\$		
0000007B	8F	59	D1	0029F	45\$:	CMPL	CH, #123		0901
		09	12	002A6		BNEQ	47\$		
	87	2B	90	002A8		MOVB	#43, (L_PTR)+		0903
	67	77	8F	90	002AB	MOVB	#119, (E_PTR)		0904
			6B	11	002AF	BRB	59\$		
0000007D	8F	59	D1	002B1	46\$:	CMPL	CH, #125		0908
		09	12	002B8		BNEQ	49\$		
	87	2B	90	002BA		MOVB	#43, (L_PTR)+		0910
	67	78	8F	90	002BD	MOVB	#120, (E_PTR)		0911
			59	11	002C1	BRB	59\$		
	3C	59	D1	002C3	48\$:	CMPL	CH, #60		0915
		09	12	002C6	49\$:	BNEQ	51\$		
	87	2B	90	002C8		MOVB	#43, (L_PTR)+		0917
	67	79	8F	90	002CB	MOVB	#121, (E_PTR)		0918
			4B	11	002CF	BRB	59\$		
	3E	59	D1	002D1	50\$:	CMPL	CH, #62		0922
					51\$:				

			09	12	002D4	BNEQ	53\$					
	87		2B	90	002D6	MOVB	#43, (L_PTR)+			0924		
	67	7A	8F	90	002D9	MOVB	#122, (L_PTR)			0925		
			3D	11	002DD	BRB	59\$					
0000005B	8F		59	D1	002DF	CMPL	CH, #91			0929		
			08	12	002E6	BNEQ	55\$					
	87		2B	90	002E8	MOVB	#43, (L_PTR)+			0931		
	67		28	90	002EB	MOVB	#40, (L_PTR)			0932		
			2C	11	002EE	BRB	59\$					
0000005D	8F		59	D1	002F0	CMPL	CH, #93			0936		
			08	12	002F7	BNEQ	57\$					
	87		2B	90	002F9	MOVB	#43, (L_PTR)+			0938		
	67		29	90	002FC	MOVB	#41, (L_PTR)			0939		
			1B	11	002FF	BRB	59\$					
	22		59	D1	00301	CMPL	CH, #34			0943		
			1D	12	00304	BNEQ	60\$					
	0A		6E	E9	00306	BLBC	OPEN_QUOTE, 58\$			0945		
	87		22	90	00309	MOVB	#34, (L_PTR)+			0951		
	67		22	90	0030C	MOVB	#34, (L_PTR)			0952		
			6E	D4	0030F	CLRL	OPEN_QUOTE			0954		
			09	11	00311	BRB	59\$			0945		
	87		27	90	00313	MOVB	#39, (L_PTR)+			0961		
	67		27	90	00316	MOVB	#39, (L_PTR)			0962		
	6E		01	D0	00319	MOVL	#1, OPEN_QUOTE			0964		
			57	D6	0031C	INCL	L_PTR			0952		
	58		02	C0	0031E	ADDL2	#2, L_LEN			0967		
			05	11	00321	BRB	61\$			0835		
	87		59	90	00323	MOVB	CH, (L_PTR)+			0975		
			58	D6	00326	INCL	L_LEN			0976		
FD7C		14	AE	01	56	F1	00328	61\$:	ACBL	I_LEN, #1, I, 16\$	0578	
				04	10	AE	E8	0032F	62\$:	BLBS	DOING_BOLD, 63\$	0987
				24	08	AE	E9	00333		BLBC	DOING_ITALICS, 66\$	
				87	5B	8F	90	00337	63\$:	MOVB	#91, (L_PTR)+	0993
						58	D6	0033B		INCL	L_LEN	0994
				08	10	AE	E9	0033D		BLBC	DOING_BOLD, 64\$	0996
				87	7266	8F	B0	00341		MOVW	#29288, (L_PTR)+	0999
				58		02	C0	00346		ADDL2	#2, L_LEN	1001
				08	08	AE	E9	00349	64\$:	BLBC	DOING_ITALICS, 65\$	1004
				87	7266	8F	B0	0034D		MOVW	#29288, (L_PTR)+	1007
				58		02	C0	00352		ADDL2	#2, L_LEN	1009
				87	5D	8F	90	00355	65\$:	MOVB	#93, (L_PTR)+	1012
						58	D6	00359		INCL	L_LEN	1013
				1C		6E	E8	0035B	66\$:	BLBS	OPEN_QUOTE, 67\$	1016
						5A	DD	0035E		PUSHL	R10	1024
					04	AC	DD	00360		PUSHL	RNO_LEN	
						02	DD	00363		PUSHL	#2	
					00000000G	8F	DD	00365		PUSHL	#DSRINDEX\$_TEXTD	
						7E	D4	0036B		CLRL	-(SP)	
					00000000G	8F	DD	0036D		PUSHL	#DSRINDEX\$_CLOSEQUOT	
00000000G	00					C6	FB	00373		CALLS	#6, LIB\$SIGNAL	
	18	AE				58	B0	0037A	67\$:	MOVW	L_LEN, \$STR\$STRING	1034
	1A	AE				0E	90	0037E		MOVB	#T4, \$STR\$STRING+2	
	1B	AE				01	90	00382		MOVB	#1, \$STR\$STRING+3	
	1C	AE				AE	9E	00386		MOVAB	LINE, \$STR\$STRING+4	
					00000000G	EF	9F	0038B		PUSHAB	STR\$FAILURE	
						7E	D4	00391		CLRL	-(SP)	
					0C	AC	DD	00393		PUSHL	DSC	


```

: 759 1036 1 %SBTTL 'GLOBAL ROUTINE TMSPUT -- Write a line to output file'
: 760 1037 1 GLOBAL ROUTINE TMSPUT (LEN, PTR, IOB, IDEAL) : NOVALUE =
: 761 1038 1 ++
: 762 1039 1
: 763 1040 1 FUNCTIONAL DESCRIPTION:
: 764 1041 1
: 765 1042 1 This routine is called to write a line to the output file.
: 766 1043 1
: 767 1044 1 If the output file is TMSSIZ blocks, and IDEAL
: 768 1045 1 is TRUE, creates a new output file before writing line.
: 769 1046 1
: 770 1047 1 If the output file is TMSSIZ + 10 blocks, creates
: 771 1048 1 a new output file unconditionally.
: 772 1049 1
: 773 1050 1 New output file names are of the form
: 774 1051 1 (first 3 characters of original file name){3 digits}.TMS
: 775 1052 1
: 776 1053 1 FORMAL PARAMETERS:
: 777 1054 1
: 778 1055 1 LEN - Length of line
: 779 1056 1 PTR - CHSPTR to line
: 780 1057 1 IOB - Address of IOB
: 781 1058 1 IDEAL - TRUE if file can be broken on this line
: 782 1059 1
: 783 1060 1 IMPLICIT INPUTS:
: 784 1061 1
: 785 1062 1 TMSCHR - Number of characters written to output file
: 786 1063 1 TMSSIZ - Ideal file size in blocks
: 787 1064 1
: 788 1065 1 IMPLICIT OUTPUTS:
: 789 1066 1
: 790 1067 1 TMSCHR - Number of characters written to output file
: 791 1068 1
: 792 1069 1 ROUTINE VALUE:
: 793 1070 1 COMPLETION CODES:
: 794 1071 1
: 795 1072 1 None
: 796 1073 1
: 797 1074 1 SIDE EFFECTS:
: 798 1075 1
: 799 1076 1 None
: 800 1077 1 --
: 801 1078 2 BEGIN
: 802 1079 2 MAP
: 803 1080 2 IOB : REF $XPO_IOB ();
: 804 1081 2
: 805 1082 3 IF ((.TMSCHR GEQ (.TMSSIZ * 512)) AND .IDEAL) ! Best place to start a new file
: 806 1083 3 OR (.TMSCHR GEQ (.TMSSIZ * 512 + 5120)) ! Unconditionally start a new file
: 807 1084 3 THEN
: 808 1085 3 BEGIN
: 809 1086 3 |
: 810 1087 3 | Must start a new output file.
: 811 1088 3 | TMS11 can process only 40-50 block files maximum.
: 812 1089 3 |
: 813 1090 3 LOCAL
: 814 1091 3 L_NAME,
: 815 1092 3 SPEC_BLK : $XPO_SPEC_BLOCK;

```

```

816      1093      |
817      1094      |   IF .OLD_FILE [STR$H_LENGTH] EQL 0
818      1095      |   THEN
819      1096      |       |
820      1097      |       | Save first output file name.
821      1098      |       | We use it to build the new file name and
822      1099      |       | for a related file specification.
823      1100      |       |
824      1101      |       | $STR_COPY (STRING = IOB [IOB$T_RESULTANT], TARGET = OLD_FILE);
825      1102      |       |
826      1103      |       |
827      1104      |       | Parse old file name
828      1105      |       |
829      1106      |       | $XPO_PARSE_SPEC (FILE_SPEC = OLD_FILE, SPEC_BLOCK = SPEC_BLK);
830      1107      |       |
831      1108      |       |
832      1109      |       | Use up to 6 characters of old file name for new file name
833      1110      |       |
834      1111      |       | IF .SPEC_BLK [XPO$H_FILE_NAME] GEQ 6
835      1112      |       | THEN
836      1113      |       |     L_NAME = 6
837      1114      |       | ELSE
838      1115      |       |     L_NAME = .SPEC_BLK [XPO$H_FILE_NAME];
839      1116      |       |
840      1117      |       |
841      1118      |       | Close current file
842      1119      |       |
843      1120      |       | $XPO_CLOSE (IOB = .IOB);
844      1121      |       |
845      1122      |       |
846      1123      |       | Open new file.
847      1124      |       |
848      1125      |       | FILE_NO = .FILE_NO + 1;
849      1126      |       | $XPO_IOB_INIT (IOB = .IOB);
850      1127      | P       | $XPO_OPEN (IOB = .IOB, OPTIONS = OUTPUT, DEFAULT = OLD_FILE,
851      1128      | P       |     FILE_SPEC = $STR_CONCAT ((L_NAME, .SPEC_BLK [XPO$H_FILE_NAME]),
852      1129      | P       |     $STR_ASCII (.FILE_NO, UNSIGNED, LEADING_ZERO, LENGTH = 3))
853      1130      | P       |     %IF %BLISS (BLISS32) %THEN , FAILURE = OPEN_ERROR %FI
854      1131      |       | );
855      1132      |       |
856      1133      | L       | %IF %BLISS (BLISS32)
857      1134      |       | %THEN
858      1135      |       |
859      1136      |       |     SIGNAL (INDEX$_TMS11, 1, IOB [IOB$T_RESULTANT]);
860      1137      |       |
861      1138      | U       | %ELSE
862      1139      | U       |
863      1140      | U       |     $XPO_PUT_MSG (SEVERITY = SUCCESS,
864      1141      | U       |     STRING = $STR_CONCAT ('output file full - continuing with file ''', IOB [IOB$T_RESULTANT], '''))
865      1142      | U       |
866      1143      |       | %FI
867      1144      |       |
868      1145      |       |
869      1146      |       | Write initial lines
870      1147      |       |
871      1148      |       | $XPO_PUT (IOB = .IOB, STRING = TMS10F);
872      1149      |       | $XPO_PUT (IOB = .IOB, STRING = ' ');

```

```

: 873 1150 3      TMSCHR = .TMSTOF [STR$H_LENGTH] + 1;
: 874 1151 2      END;
: 875 1152 2
: 876 1153 2
: 877 1154 2      | Write line to file
: 878 1155 2
: 879 1156 2      TMSCHR = .TMSCHR + .LEN;
: 880 1157 2      $XPO_PUT (IOB = .IOB, STRING = (.LEN, .PTR));
: 881 1158 1      END;

```

```

.PSECT $SPLITS,NOWRT,NOEXE,2
      20 00008 P.AAB: .ASCII \ \
.PSECT $OWNS,NOEXE,2
      0001 00010 $IOB$OUTPUT:
      01 0E 00012 .WORD 1
00000000' 00014 .BYTE 14, 1
               .ADDRESS P.AAB
$STR$TARGET= OLD_FILE
$STR$FILE_SPEC= OLD_FILE
$IOB$DEFAULT= OLD_FILE
$IOB$OUTPUT= TMSTOF
.EXTRN XPOS$PARSE_SPEC, XPOS$FAILURE
.EXTRN XPOS$CLOSE, XST$JOIN
.EXTRN XST$ASCII, XPOS$OPEN
.EXTRN XPOS$PUT
.PSECT $CODE$,NOWRT,2
      OFFC 00000 .ENTRY TMSPUT, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,-
      R11
      5B 00000000' EF 9E 00002 MOVAB $IOB$OUTPUT, R11
      5A 00000000G EF 9E 00009 MOVAB XPOS$PUT, R10
      59 00000000G EF 9E 00010 MOVAB XPOS$FAILURE, R9
      58 00000000' EF 9E 00017 MOVAB TMSCHR, R8
      5E B0 AE 9E 0001E MOVAB -80(SP), SP
      50 08 AB 09 78 00022 ASHL #9, TMS$IZ, R0
      50 68 D1 00027 CMPL TMSCHR, R0
      04 19 0002A BLSS 1$
      0D 10 AC E8 0002C BLBS IDEAL, 2$
      50 1400 C0 9E 00030 1$: MOVAB 5120(R0), R0
      50 68 D1 00035 CMPL TMSCHR, R0
      03 18 00038 BGEQ 2$
      00F9 31 0003A BRW 6$
      F8 A8 B5 0003D 2$: TSTW OLD_FILE
      1B 12 00040 BNEQ 3$
      50 0C AC 1C C1 00042 ADDL3 #28, IOB, R0
      00000000G EF 9F 00047 PUSHAB STR$FAILURE
      7E D4 0004D CLRL -(SP)
      F8 A8 9F 0004F PUSHAB $STR$TARGET
      50 DD 00052 PUSHL R0
      7E D4 00054 CLRL -(SP)
      1037
      1082
      1083
      1094
      1101

```

	00000000G	EF		05	FB	00056		CALLS	#5, XST\$COPY		
				59	DD	0005D	3\$:	PUSHL	R9		1106
		7E		7E	D4	0005F		CLRL	-(SP)		
			14	01	CE	00061		MNEGL	#1, -(SP)		
			F8	AE	9F	00064		PUSHAB	SPEC_BLK		
	00000000G	EF		AB	9F	00067		PUSHAB	\$STR\$FILE_SPEC		
		06	28	05	FB	0006A		CALLS	#5, XPOS\$PARSE_SPEC		1111
				AE	B1	00071		CMPW	SPEC_BLK+32, #6		
		57		05	1F	00075		BLSSU	4\$		
				06	DO	00077		MOVL	#6, L_NAME		1113
		57	28	04	11	0007A		BRB	5\$		
		56	OC	AE	3C	0007C	4\$:	MOVZWL	SPEC_BLK+32, L_NAME		1115
	2C	A6		AC	DO	00080	5\$:	MOVL	IOB, R6		1120
				02	90	00084		MOVB	#2, 44(R6)		
				59	DD	00088		PUSHL	R9		
				7E	D4	0008A		CLRL	-(SP)		
				56	DD	0008C		PUSHL	R6		
	00000000G	EF		03	FB	0008E		CALLS	#3, XPOS\$CLOSE		
			04	AB	D6	00095		INCL	FILE_NO		1125
OOF4	8F	00		00	2C	00098		MOVC5	#0, TSP), #0, #244, (R6)		1126
				66		0009F					
		66	0301003D	8F	DO	000A0		MOVL	#50397245, (R6)		
	1E	A6	020E	8F	BO	000A7		MOVW	#526, 30(R6)		
				03	DD	000AD		PUSHL	#3		1131
				04	AB	DD		PUSHL	FILE_NO		
		7E	0603	8F	3C	000B2		MOVZWL	#1539, -(SP)		
	00000000G	EF		03	FB	000B7		CALLS	#3, XST\$ASCII		
		6E		57	BO	000BE		MOVW	L_NAME, \$STR\$STRINGO		
	02	AE		0E	90	000C1		MOVB	#T4, \$STR\$STRINGO+2		
	03	AE		01	90	000C5		MOVB	#1, \$STR\$STRINGO+3		
	04	AE	2C	AE	DO	000C9		MOVL	SPEC_BLK+36, \$STR\$STRINGO+4		
				50	DD	000CE		PUSHL	R0		
				04	AE	9F		PUSHAB	\$STR\$STRINGO		
	00000000G	EF		02	FB	000D3		CALLS	#2, XST\$JOIN		
		04		50	DO	000DA		MOVL	R0, 4(R6)		
		08		AB	9E	000DE		MOVAB	\$IOB\$DEFAULT, 8(R6)		
		2E		02	88	000E3		BISB2	#2, 46(R6)		
		2C		01	90	000E7		MOVB	#1, 44(R6)		
				00000000G	EF	9F		PUSHAB	OPEN_ERROR		
				7E	D4	000F1		CLRL	-(SP)		
				56	DD	000F3		PUSHL	R6		
	00000000G	EF		03	FB	000F5		CALLS	#3, XPOS\$OPEN		
			1C	A6	9F	000FC		PUSHAB	28(R6)		1136
				01	DD	000FF		PUSHL	#1		
				00000G00G	8F	DD	00101	PUSHL	#DSRINDEX\$ TMS11		
	00000000G	00		03	FB	00107		CALLS	#3, LIB\$SIGNAL		
		44		6B	9E	0010E		MOVAB	\$IOB\$OUTPUT, 68(R6)		1148
		2C		07	90	00112		MOVB	#7, 44(R6)		
				59	DD	00116		PUSHL	R9		
				7E	D4	00118		CLRL	-(SP)		
				56	DD	0011A		PUSHL	R6		
		6A		03	FB	0011C		CALLS	#3, XPOS\$PUT		
		44		AB	9E	0011F		MOVAB	\$IOB\$OUTPUT, 68(R6)		1149
		2C	08	07	90	00124		MOVB	#7, 44(R6)		
				59	DD	00128		PUSHL	R9		
				7E	D4	0012A		CLRL	-(SP)		
				56	DD	0012C		PUSHL	R6		

6A		03	FB	0012E	CALLS	#3, XPOS\$PUT
68		6B	3C	00131	MOVZWL	TMS\$TOF, TMSCHR
		68	D6	00134	INCL	TMSCHR
68	04	AC	C0	00136	ADDL2	LEN, TMSCHR
50	0C	AC	D0	0013A	MOVL	IOB, R0
48	AE	04	AC	80	MOVW	LEN, \$IOB\$OUTPUT
4A	AE		0E	90	MOVB	#14, \$IOB\$OUTPUT+2
4B	AE		01	90	MOVB	#1, \$IOB\$OUTPUT+3
4C	AE	08	AC	D0	MOVL	PTR, \$IOB\$OUTPUT+4
44	A0	48	AE	9E	MOVAB	\$IOB\$OUTPUT, 68(R0)
2C	AU		07	90	MOVB	#7, 44(R0)
		59	DD	00159	PUSHL	R9
		7E	D4	0015B	CLRL	-(SP)
		50	DD	0015D	PUSHL	R0
6A		03	FB	0015F	CALLS	#3, XPOS\$PUT
		04	00162	RET		

1150
1156
1157
1158

: Routine Size: 355 bytes, Routine Base: \$CODE\$ + 03A3

: 882 1159 1
: 883 1160 1 END ! End of module
: 884 1161 0 ELUDOM

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Name	Bytes	Attributes
\$GLOBALS	2064	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$OWNS	24	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$SPLITS	9	NOVEC, NOWRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	1286	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
. ABS .	0	NOVEC, NOWRT, NORD, NOEXE, NOSHR, LCL, ABS, CON, NOPIC, ALIGN(0)

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	175	29	252	00:00.1

COMMAND QUALIFIERS

