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```

P 0001 0 MODULE aline ( IDENT = 'V04-000'
0002 0      %BLISS32 [, ADDRESSING_MODE (EXTERNAL = LONG_RELATIVE,
0003 0      ) = NONEXTERNAL = LONG_RELATIVE])
0004 0
0005 1 BEGIN
0006 1
0007 1
0008 1 *****
0009 1 *
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0028 1 *
0029 1 *****
0030 1
0031 1
0032 1 ++
0033 1 FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
0034 1
0035 1 ABSTRACT:      Processes .CENTER, .RIGHT, .LEFT and .INDENT commands.
0036 1
0037 1 ENVIRONMENT:   Transportable
0038 1
0039 1 AUTHOR:       R.W.Friday      CREATION DATE: June, 1978
0040 1

```

ALI
V04

ALINE
V04-000

F 6
15-Sep-1984 23:46:12
14-Sep-1984 13:05:28

VAX-11 Bliss-32 V4.0-742
DISK\$VMMASTER:[RUNOFF.SRC]ALINE.BLI;1 Page 2 (2)

Revision History

```

: 42      0041 1 %SBTTL 'Revision History'
: 43      0042 1 | MODIFIED BY:
: 44      0043 1 |
: 45      0044 1 |         008      RER00008      Ron Randall      06-Jun-1983
: 46      0045 1 |         Centering is now done between left and right text margins.
: 47      0046 1 |
: 48      0047 1 |         007      KFA00007      Ken Alden      16-Mar-1983
: 49      0048 1 |         PUSH/POP_SCA now visible to dsr.
: 50      0049 1 |
: 51      0050 1 |         006      KFA00006      Ken Alden      07-Mar-1983
: 52      0051 1 |         Global edit of all modules. Updated module names, idents,
: 53      0052 1 |         copyright dates. Changed require files to BLISS library.
: 54      0053 1 |         --
: 55      0054 1 |

```

Module Level Declarations

```

: 57      0055 1 %SBTTL 'Module Level Declarations'
: 58      0056 1
: 59      0057 1   INCLUDE FILES:
: 60      0058 1
: 61      0059 1 LIBRARY 'NXPORT:XPORT';           ! XPORT Library
: 62      0060 1 REQUIRE 'REQ:RNODEF';           ! RUNOFF variant definitions
: 63      0191 1
: 64      U 0192 1 %IF DSRPLUS %THEN
: 65      U 0193 1 LIBRARY 'REQ:DPLLIB';           ! DSRPLUS BLISS Library
: 66      0194 1 %ELSE
: 67      0195 1 LIBRARY 'REQ:DSRLIB';           ! DSR BLISS Library
: 68      0196 1 %FI
: 69      0197 1
: 70      0198 1
: 71      0199 1   EQUATED SYMBOLS:
: 72      0200 1
: 73      0201 1 EXTERNAL LITERAL
: 74      0202 1   rintes : UNSIGNED (8);
: 75      0203 1
: 76      0204 1   OWN STORAGE:
: 77      0205 1
: 78      0206 1 OWN
: 79      0207 1   pp_sca : $h_r_sca_block;       ! Used in PUSH_SCA, POP_SCA macros
: 80      0208 1
: 81      0209 1   EXTERNAL REFERENCES:
: 82      0210 1
: 83      0211 1 EXTERNAL
: 84      0212 1   flgt      : flag_table,
: 85      0213 1   gca       : gca_definition,
: 86      0214 1   ira       : FIXED_STRING,
: 87      0215 1   khar,
: 88      0216 1   numprm    : numprm_define,
: 89      0217 1   pdt      : ref_pdt_definition,
: 90      0218 1   sca       : sca_definition,
: 91      0219 1   tsf      : tsf_definition,
: 92      0220 1   ttable   : COUNTED_LIST;
: 93      0221 1
: 94      0222 1 EXTERNAL LITERAL
: 95      0223 1   rnfcl,      ! Can't justify line
: 96      0224 1   rnfcnf,   ! Character string expected, not found: "<directive>"
: 97      0225 1   rnfinm;   ! Illegal number value: "<directive>"
: 98      0226 1
: 99      0227 1 EXTERNAL ROUTINE
: 100     0228 1   endcmt,
: 101     0229 1   endwrd,
: 102     0230 1   erma,
: 103     0231 1   erml,
: 104     0232 1   guskip,
: 105     0233 1   outnj,
: 106     0234 1   rskips,
: 107     0235 1   scant;
: 108     0236 1

```

```

110 0237 1 GLOBAL ROUTINE aline (handler_code) : NOVALUE =
111 0238 1
112 0239 1 ++
113 0240 1 FUNCTIONAL DESCRIPTION:
114 0241 1
115 0242 1     Processes .CENTER, .RIGHT, .LEFT and .INDENT commands.
116 0243 1
117 0244 1 FORMAL PARAMETERS:
118 0245 1
119 0246 1     handler_code - Indicates which command is to be processed.
120 0247 1
121 0248 1 IMPLICIT INPUTS:
122 0249 1
123 0250 1     numprm - Contains a number, as picked up by GETNUM.
124 0251 1
125 0252 1 IMPLICIT OUTPUTS:     None
126 0253 1
127 0254 1 ROUTINE VALUE:
128 0255 1 COMPLETION CODES:     None
129 0256 1
130 0257 1 SIDE EFFECTS:         None
131 0258 1 --
132 0259 1
133 0260 2 BEGIN
134 0261 2 LOCAL
135 0262 2     hold_tab_count,           ! Tab count preserved here.
136 0263 2     text_width,             ! Available text width.
137 0264 2     sca_hold : VECTOR [sca_size]; ! SCA preserved here.
138 0265 2
139 0266 2
140 0267 2     ! All these commands accept a number as a parameter.
141 0268 2
142 0269 2 IF NOT .num_result
143 0270 2 THEN
144 0271 2
145 0272 2     ! Ignore the command if the number was bad.
146 0273 2
147 0274 2 RETURN;
148 0275 2
149 0276 2 text_width = .sca_rm - .sca_lm;
150 0277 2
151 0278 2 SELECT .handler_code OF
152 0279 2 SET
153 0280 2
154 0281 2     [h_center] :
155 0282 2
156 0283 2     ! Validate number given in .CENTER command
157 0284 2
158 0285 2 BEGIN
159 0286 2
160 0287 2
161 0288 2     ! Process signed number.
162 0289 2
163 0290 2 IF .num_sign NEQ 0
164 0291 2 THEN
165 0292 2     num_value = .num_value + .sca_rm
166 0293 2

```

```

167 0294      | Process unsigned number.
168 0295      |
169 0296      | ELSE
170 0297      |
171 0298      |     IF .num_length EQL 0
172 0299      |     THEN
173 0300      |         |
174 0301      |         | Apply default text width.
175 0302      |         |
176 0303      |         | num_value = .sca_rm;
177 0304      |         |
178 0305      |         |
179 0306      |         | Can't center to the left of 0 or beyond the
180 0307      |         | maximum right margin limit.
181 0308      |         |
182 0309      |     IF (.num_value LEQ 0) OR (.num_value GTR 150)
183 0310      |     THEN
184 0311      |     BEGIN
185 0312      |     erma (rnfinm, false);
186 0313      |     |
187 0314      |     | Fix up parameter so text gets centered anyway.
188 0315      |     |
189 0316      |     | num_value = .sca_rm;
190 0317      |     | END;
191 0318      |     |
192 0319      |     |
193 0320      |     | Adjust final value to account for later math.
194 0321      |     | num_value = .num_value + .sca_lm;
195 0322      |     |
196 0323      |     |
197 0324      |     | IF (.num_sign EQL 0) AND (.num_length NEQ 0)
198 0325      |     | THEN
199 0326      |     |     num_value = .num_value - .sca_lm;
200 0327      |     |
201 0328      |     | END;
202 0329      |     |
203 0330      | [h_right] :
204 0331      | BEGIN
205 0332      | |
206 0333      | | Validate number given on .RIGHT command.
207 0334      | | Always handle number as an adjustment to the right margin.
208 0335      | |
209 0336      | | num_value = .sca_rm - .num_value;
210 0337      | |
211 0338      | | IF (.num_value LSS 0) OR (.num_value GTR 150)
212 0339      | | THEN
213 0340      | | |
214 0341      | | | Can't back up to the left of 0 or adjust
215 0342      | | | beyond the maximum right margin limit.
216 0343      | | |
217 0344      | | | BEGIN
218 0345      | | | erma (rnfinm, false);
219 0346      | | | |
220 0347      | | | | Fix up parameter so text goes as far right as allowed.
221 0348      | | | |
222 0349      | | | | num_value = .sca_rm;
223 0350      | | | | END;

```

```

224 0351 3
225 0352 2
226 0353 2
227 0354 2
228 0355 2
229 0356 2
230 0357 2
231 0358 2
232 0359 2
233 0360 2
234 0361 2
235 0362 2
236 0363 4
237 0364 4
238 0365 4
239 0366 4
240 0367 4
241 0368 3
242 0369 3
243 0370 4
244 0371 4
245 0372 4
246 0373 4
247 0374 4
248 0375 4
249 0376 4
250 0377 4
251 0378 4
252 0379 4
253 0380 4
254 0381 5
255 0382 5
256 0383 5
257 0384 5
258 0385 5
259 0386 6
260 0387 6
261 0388 6
262 0389 6
263 0390 6
264 0391 6
265 0392 6
266 0393 6
267 0394 6
268 0395 6
269 0396 6
270 0397 6
271 0398 6
272 0399 6
273 0400 5
274 0401 5
275 0402 4
276 0403 4
277 0404 4
278 0405 4
279 0406 4
280 0407 3

END;

[h_center, h_right] :
BEGIN
    Both .CENTER and .RIGHT can have a ';' or a comment after the
    number, or the text can be on the next line.
    rskips (ira);                ! Skip spaces after the number.
    IF (.khar EQL %C';') OR      ! Just a semi-colon??
        (.flgt [com_flag, flag_enabled] AND ! A comment??
        (.khar EQL .flgt [com_flag, flag_character]))
    THEN
        User said .CENTER/.RIGHT nnn;...
        OR
        .CENTER/.RIGHT nnn!...
        BEGIN
            endcmt ();                ! Skip characters, stopping when
            ! a ';' or RINTES is encountered.
        IF .khar NEQ rintes
        THEN
            Scan terminated on a ';', which indicates that
            the text follows on the same line. Skip the ';'
            and verify that there is something there.
            BEGIN
                kcns ();                ! Skip the ';'
            IF .khar EQL rintes
            THEN
                BEGIN
                    A ';' followed by end-of-record is a user error.
                    Since a ';' functions like an end-of-record, what
                    the user has done is give the command an empty record
                    to be .CENTERed or .RIGHTed. The error message warns
                    him of this. Then, processing merges with the normal
                    flow. The result will be that when SCANT gets called
                    it will return a null string, and all the command
                    will do is generate a blank line in the output file.
                    erma (rnfcnf, false);
                END
            END
        END
    ELSE
        IF .khar EQL rintes
        THEN

```



```

: 281 0408 3 | User said .CENTER/.RIGHT nnn<CR><LF>
: 282 0409 3 |
: 283 0410 4 | BEGIN
: 284 0411 4 |
: 285 0412 4 | Text is on the next record.
: 286 0413 4 |
: 287 0414 4 | EXTERNAL ROUTINE
: 288 0415 4 | clh;
: 289 0416 4 |
: 290 0417 4 | clh (clh_read_input);
: 291 0418 4 | kcons ();
: 292 0419 4 | END
: 293 0420 4 | ELSE
: 294 0421 4 |
: 295 0422 4 | Illegal character after the number.
: 296 0423 4 | Returning lets DDCM issue the error message.
: 297 0424 4 |
: 298 0425 4 | RETURN,
: 299 0426 4 |
: 300 0427 4 |
: 301 0428 4 | At this point it has been ascertained that the .CENTER
: 302 0429 4 | or .RIGHT command is syntatically correct.
: 303 0430 4 | Also, the start of the text argument has been located.
: 304 0431 4 |
: 305 0432 4 | Preserve SCA used for normal text processing.
: 306 0433 4 |
: 307 0434 4 | push_sca; ! Save special SCA save bits.
: 308 0435 4 |
: 309 0436 4 | INCR I FROM 0 TO (sca_size - 1) DO
: 310 0437 4 | sca_hold [.I] = .sca [.I];
: 311 0438 4 |
: 312 0439 4 |
: 313 0440 4 | Set up SCA so SCANT preserves white space, and there
: 314 0441 4 | is lots of room so that a new line doesn't get started
: 315 0442 4 | unless the user makes an error.
: 316 0443 4 |
: 317 0444 4 | sca_fill = false;
: 318 0445 4 | sca_justify = false;
: 319 0446 4 | sca_lm = 0;
: 320 0447 4 | sca_rm = 150;
: 321 0448 4 |
: 322 0449 4 | Preserve tab count; temporarily set it to zero
: 323 0450 4 | so that tabs get replaced by spaces.
: 324 0451 4 |
: 325 0452 4 | hold_tab_count = .ttable [cl_index];
: 326 0453 4 | ttable [cl_index] = 0;
: 327 0454 4 | rskips (ira); ! Skip leading spaces and tabs.
: 328 0455 4 | scant (); ! Scan one input line.
: 329 0456 4 |
: 330 0457 4 |
: 331 0458 4 | Trailing spaces are dropped, unless there is at least
: 332 0459 4 | one underlined space in the sequence.
: 333 0460 4 | Sca_wrd_cpend is not equal to RINTES iff the last character
: 334 0461 4 | has not yet been made part of the word that was interrupted
: 335 0462 4 | by the end of the line occurring; this can happen iff
: 336 0463 4 | trailing spaces/tabs did not force the end of word processing
: 337 0464 4 | to take place, i.e., there were no trailing spaces/tabs.

```

```

338 0465 3 | See SCANT to see how spaces/tabs get handled.
339 0466 3 |
340 0467 3 | IF .sca_wrd_cpend EQL rintes
341 0468 3 | THEN
342 0469 3 |
343 0470 3 |     IF .sca_wrd_lst_und EQL 0
344 0471 3 |     THEN
345 0472 3 |         sca_wrd_lst_sp = 0;
346 0473 3 |
347 0474 3 |
348 0475 3 |     The call on ENDWRD is made here, rather than letting
349 0476 3 |     OUTNJ do it. The reason it's done here is so that
350 0477 3 |     tsf_ext_hl gets updated, so that the length of the text
351 0478 3 |     can be used.
352 0479 3 |
353 0480 3 | endwrld (false, false, false);
354 0481 3 |
355 0482 3 |
356 0483 3 |     Check to see that the text retrieved is not too long.
357 0484 3 |
358 0485 3 | IF .tsf_ext_hl GTR .text_width
359 0486 3 | THEN
360 0487 3 |     BEGIN
361 0488 3 |         Text is too long even before adjustment.
362 0489 3 |
363 0490 3 |         erml (rnfcjl);
364 0491 3 |
365 0492 3 |         Fix up tsf_ext_hl. However, the entire line
366 0493 3 |         will still get printed.
367 0494 3 |
368 0495 3 |         tsf_ext_hl = 0;
369 0496 3 |     END;
370 0497 3 |
371 0498 3 |
372 0499 3 |     END;
373 0500 3 |
374 0501 3 | [h_center] :
375 0502 3 | BEGIN
376 0503 3 |
377 0504 3 |     Compute number of spaces needed to center the line.
378 0505 3 |
379 0506 3 |     tsf_adjust = (.num_value - .tsf_ext_hl) / 2;
380 0507 3 |     END;
381 0508 3 |
382 0509 3 | [h_right] :
383 0510 3 | BEGIN
384 0511 3 |
385 0512 3 |     Compute number of spaces needed to push the line the
386 0513 3 |     specified amount to the right.
387 0514 3 |
388 0515 3 |     tsf_adjust = .num_value - .tsf_ext_hl;
389 0516 3 |     END;
390 0517 3 |
391 0518 3 | [h_center, h_right] :
392 0519 3 | BEGIN
393 0520 3 |
394 0521 3 |     IF .tsf_adjust LSS 0

```

```

: 395 0522 3 THEN
: 396 0523 4 BEGIN
: 397 0524 4
: 398 0525 4 It's not possible to adjust the line.
: 399 0526 4
: 400 0527 4 erml (rnfcjl);
: 401 0528 4
: 402 0529 4 By setting tsf_adjust to zero, the line
: 403 0530 4 will go out against the left edge of the page.
: 404 0531 4
: 405 0532 4 tsf_adjust = 0;
: 406 0533 4 END;
: 407 0534 4
: 408 0535 4
: 409 0536 4 If, after going through all the above, it turns
: 410 0537 4 out to be the case that no text was picked up,
: 411 0538 4 skip a blank line, unconditionally.
: 412 0539 4
: 413 0540 4 IF .tsf_int_hl EQL 0
: 414 0541 4 THEN
: 415 0542 4 guskip (1);
: 416 0543 4
: 417 0544 4 outnj (); ! Force out line of text.
: 418 0545 4
: 419 0546 4 Restore tab count and SCA to previous status.
: 420 0547 4
: 421 0548 4 ttable [cl_index] = .hold_tab_count;
: 422 0549 4
: 423 0550 4
: 424 0551 4 When restoring SCA note that case rules 'play through'.
: 425 0552 4
: 426 0553 4 INCR I FROM sca_case_size TO (sca_size - 1) DO
: 427 0554 4 sca [.I] = .sca_hold [.I];
: 428 0555 4
: 429 0556 4 pop_sca; ! Restore the special SCA bits.
: 430 0557 4 sca_sect_empty = false; ! There's something in this section.
: 431 0558 4 RETURN;
: 432 0559 4 END;
: 433 0560 4
: 434 0561 4 [h_left, h_indent] :
: 435 0562 4 BEGIN
: 436 0563 4
: 437 0564 4
: 438 0565 4 The specified indentation is just remembered.
: 439 0566 4 It will be picked up by FCIMRA when the first character for the
: 440 0567 4 next line has been picked up.
: 441 0568 4
: 442 0569 4 IF .num_length NEQ 0
: 443 0570 4 THEN
: 444 0571 4 BEGIN ! A number was supplied.
: 445 0572 4 sca_indent = .num_value;
: 446 0573 4 END
: 447 0574 4 ELSE
: 448 0575 4 BEGIN ! A number was not supplied.
: 449 0576 4 sca_indent = .pdt_indent; ! Use paragraph indentation
: 450 0577 4 END;
: 451 0578 4

```

```

: 452      0579 2      END;
: 453      0580 2
: 454      0581 2      TES;
: 455      0582 2
: 456      0583 1      END;

```

! End of ALINE

```

.TITLE ALINE
.IDENT \V04-000\

```

.PSECT \$OWNS\$,NOEXE,2

00000 PP_SCA: .BLKB 48

```

.EXTRN RINTES, FLGT, GCA
.EXTRN IRA, KHAR, NUMPRM
.EXTRN PDT, SCA, TSF, TTABLE
.EXTRN RNFCJL, RNFCNF, RNFINM
.EXTRN ENDCMT, ENDWRD, ERMA
.EXTRN ERML, GUSKIP, OUTNJ
.EXTRN RSKIPS, SCANT, CLH

```

.PSECT \$CODE\$,NOWRT,2

```

OFFC 00000
5B      00G      8F 9A 00002      .ENTRY ALINE, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11 ; 0237
5A 00000000G  EF 9E 00006      MOVZBL #RINTES, R11
59 00000000G  EF 9E 0000D      MOVAB TSF, R10
58 00000000G  EF 9E 00014      MOVAB KHAR, R9
57 00000000G  EF 9E 0001B      MOVAB IRA+12, R8
56 00000000G  EF 9E 00022      MOVAB NUMPRM+4, R7
55 00000000G  EF 9E 00029      MOVAB PP_SCA, R6
5E      FE80    CE 9E 00030      MOVAB SCA+120, R5
01      FC      A7 E8 00035      MOVAB -384(SP), SP
                                BLBS NUMPRM, 1$
                                RET
54      00      B5 D0 0003A 1$:      MOVL @SCA+120, R0
50      FC      B5 C3 0003E      SUBL3 @SCA+116, R0, TEXT_WIDTH
53      04      AC D0 00043      MOVL HANDLER_CODE, R3
0C      53 D1 00047      CMPL R3, #12
                                BNEQ 6$
                                TSTL NUMPRM+8
                                BEQL 2$
67      50 C0 00051      ADDL2 R0, NUMPRM+4
                                BRB 3$
                                TSTL NUMPRM+12
                                BNEQ 3$
67      50 D0 0005B      MOVL R0, NUMPRM+4
50      67 D0 0005E 3$:      MOVL NUMPRM+4, R0
                                BLEQ 4$
00000096 8F 50 D1 00063      CMPL R0, #150
                                BLEQ 5$
                                CLRL -(SP)
                                PUSHL #RNFINM
                                CALLS #2, ERMA
00000000G EF 02 FB 00074      MOVL @SCA+120, NUMPRM+4
67      00      B5 D0 0007B      ADDL2 @SCA+116, NUMPRM+4
67      FC      B5 C0 0007F 5$:      TSTL NUMPRM+8
                                TSTL
                                04 A7 D5 00083

```

```

: E
: L
: M
: C

```

			09	12	00086	BNEQ	6\$		
		08	A7	D5	00088	TSTL	NUMPRM+12		
			04	13	0008B	BEQL	6\$		
			B5	C2	0008D	SUBL2	@SCA+116, NUMPRM+4		0326
000000B0	67	FC	53	D1	00091	C MPL	R3, #176		0330
			26	12	00098	BNEQ	8\$		
67	00		B5	C3	0009A	SUBL3	NUMPRM+4, @SCA+120, NUMPRM+4		0336
			50	D0	0009F	MOVL	NUMPRM+4, R0		0338
00000096	8F		09	19	000A2	BLSS	7\$		
			50	D1	000A4	C MPL	R0, #150		
			13	15	000AB	BLEQ	8\$		
			7E	D4	000AD	CLRL	-(SP)		0345
		00000000G	8F	DD	000AF	PUSHL	#RNFIM		
00000000G	EF		02	FB	000B5	CALLS	#2, ERMA		
	67		B5	D0	000BC	MOVL	@SCA+120, NUMPRM+4		0349
	0C		53	D1	000C0	C MPL	R3, #12		0354
000000B0	8F		0C	13	000C3	BEQL	9\$		
			53	D1	000C5	C MPL	R3, #176		
			03	13	000CC	BEQL	9\$		
			012C	31	000CE	BRW	19\$		
00000000G	EF	F4	A8	9F	000D1	PUSHAB	IRA		0360
	52		01	FB	000D4	CALLS	#1, RSKIPS		
	3B		69	D0	000DB	MOVL	KHAR, R2		0362
			52	D1	000DE	C MPL	R2, #59		
			10	13	000E1	BEQL	10\$		
00000000G	40	00000000G	EF	E9	000E3	BLBC	FLGT+56, 13\$		0363
	EF		52	D1	000EA	C MPL	R2, FLGT+128		0364
00000000G	EF		37	12	000F1	BNEQ	13\$		
	5B		00	FB	000F3	CALLS	#0, ENDCMT		0371
			69	D1	000FA	C MPL	KHAR, R11		0374
			4F	13	000FD	BEQL	16\$		
			68	D5	000FF	TSTL	IRA+12		0382
			08	14	00101	BGTR	11\$		
	69		5B	9A	00103	MOVZBL	R11, KHAR		
	68		01	CE	00106	MNEGL	#1, IRA+12		
			09	11	00109	BRB	12\$		
	69		F8	9A	0010B	MOVZBL	@IRA+4, KHAR		
			F8	D6	0010F	INCL	IRA+4		
			68	D7	00112	DECL	IRA+12		
	5B		69	D1	00114	C MPL	KHAR, R11		0384
			35	12	00117	BNEQ	16\$		
			7E	D4	00119	CLRL	-(SP)		0397
		00000000G	8F	DD	0011B	PUSHL	#RNFIM		
00000000G	EF		02	FB	00121	CALLS	#2, ERMA		
			24	11	00128	BRB	16\$		0374
	5B		52	D1	0012A	C MPL	R2, R11		0405
			01	13	0012D	BEQL	14\$		
				04	0012F	RET			
00000000G	EF		05	DD	00130	PUSHL	#5		0417
			01	FB	00132	CALLS	#1, CLH		
			68	D5	00139	TSTL	IRA+12		0418
			08	14	0013B	BGTR	15\$		
	69		5B	9A	0013D	MOVZBL	R11, KHAR		
	68		01	CE	00140	MNEGL	#1, IRA+12		
			09	11	00143	BRB	16\$		
	69		F8	9A	00145	MOVZBL	@IRA+4, KHAR		
			F8	D6	00149	INCL	IRA+4		

				68	D7	0014C	DECL	IRA+12				
				B5	D0	0014E	16\$:	MOVL	@SCA+100, PP_SCA	0425		
	04	A6	EC	B5	D0	00152		MOVL	@SCA+104, PP_SCA+4			
	08	A6	F0	B5	D0	00157		MOVL	@SCA+108, PP_SCA+8			
	0C	A6	F4	B5	D0	0015C		MOVL	@SCA+112, PP_SCA+12			
	10	A6	F8	B5	D0	00161		MOVL	@SCA+116, PP_SCA+16			
	14	A6	FC	B5	D0	00166		MOVL	@SCA+120, PP_SCA+20			
	18	A6	00	B5	D0	0016B		MOVL	@SCA+124, PP_SCA+24			
	1C	A6	04	B5	D0	00170		MOVL	@SCA+128, PP_SCA+28			
	20	A6	08	B5	D0	00175		MOVL	@SCA+132, PP_SCA+32			
	24	A6	0C	B5	D0	0017A		MOVL	@SCA+136, PP_SCA+36			
	28	A6	10	B5	D0	0017F		MOVL	@SCA+140, PP_SCA+40			
	2C	A6	14	B5	D0	00184		MOVL	@SCA+144, PP_SCA+44			
			18	B5	D0	00189		CLRL	I	0436		
			50	D4	0018B	17\$:	MOVL	SCA[I], SCA_HOLD[I]	0437			
	F2	6E40	88	A540	D0	00191		ACBLEQ	#95, I, 17\$			
		50	0000005F	8F	F3	00199		CLRL	@SCA+104	0444		
			F0	B5	D4	0019C		CLRL	@SCA+100	0445		
			EC	B5	D4	0019F		CLRL	@SCA+116	0446		
			FC	B5	D4	001A2		MOVZBL	#150, @SCA+120	0447		
	00	B5	96	8F	9A	001A7		MOVL	TTABLE+4, HOLD_TAB_COUNT	0452		
		52	00000000G	EF	D0	001AE		CLRL	TTABLE+4	0453		
			00000000G	EF	D4	001B4		PUSHAB	IRA	0454		
			F4	A8	9F	001B7		CALLS	#1, RSKIPS			
	00000000G	EF		01	FB	001BE		CALLS	#0, SCANT	0455		
	00000000G	EF		00	FB	001C5		CMPL	SCA+280, R11	0467		
		5B		C5	D1	001CA		BNEQ	18\$			
				0A	12	001CC		TSTL	SCA+340	0470		
				00DC	C5	001D0		BNEQ	18\$			
				00D4	C5	001D2		CLRL	SCA+332	0472		
					7E	7C	001D6	18\$:	CLRQ	-(SP)	0480	
					7E	D4	001D8		CLRL	-(SP)		
	00000000G	EF		03	FB	001DA		CALLS	#3, ENDWRD			
		50		6A	D0	001E1		MOVL	TSF, R0	0485		
		54		04	A0	001E4		CMPL	4(R0), TEXT_WIDTH			
					13	15	001E8		BLEQ	19\$		
	00000000G	EF		8F	DD	001EA		PUSHL	#RNFCJL	0491		
		50		01	FB	001F0		CALLS	#1, ERML			
				6A	D0	001F7		MOVL	TSF, R0			
				04	A0	001FA		CLRL	4(R0)	0496		
					53	D1	001FD	19\$:	CMPL	R3, #12	0501	
					0D	12	00200		BNEQ	20\$		
					6A	D0	00202		MOVL	TSF, R0	0502	
	28	51		04	A0	C3	00205		SUBL3	4(R0), NUMPRM+4, R1	0506	
	A0	51		02	C7	0020A		DIVL3	#2, R1, 40(R0)			
		000000B0		8F	53	D1	0020F	20\$:	CMPL	R3, #176	0509	
					09	12	00216		BNEQ	21\$		
					6A	D0	00218		MOVL	TSF, R0	0510	
	28	A0		04	A0	C3	0021B		SUBL3	4(R0), NUMPRM+4, 40(R0)	0515	
					53	D1	00221	21\$:	CMPL	R3, #12	0518	
					0C	13	00224		BEQL	22\$		
		000000B0		8F	53	D1	00226		CMPL	R3, #176		
					03	13	0022D		BEQL	22\$		
					0087	31	0022F		BRW	26\$		
					50	6A	D0	00232	22\$:	MOVL	TSF, R0	0521
					28	A0	D5	00235		TSTL	40(R0)	
					13	18	00238		BGEQ	23\$		

00000000G	EF	00000000G	8F	DD	0023A	PUSHL	#RNFCJL	0527
	50		01	FB	00240	CALLS	#1, ERML	
		28	6A	D0	00247	MOVL	TSF, R0	
		00	A0	D4	0024A	CLRL	40(R0)	0532
			0A	D5	0024D	TSTL	@TSF	0540
			09	D2	00250	BNEQ	24\$	
			01	DD	00252	PUSHL	#1	0542
00000000G	EF		01	FB	00254	CALLS	#1, GUSKIP	
00000000G	EF		00	FB	0025B	CALLS	#0, OUTNJ	0544
00000000G	EF		52	D0	00262	MOVL	HOLD_TAB_COUNT, TTABLE+4	0548
	50		19	D0	00269	MOVL	#25, -1	0553
F2	88 A540		6E40	D0	0026C	MOVL	SCA_HOLD[I], SCA[I]	0554
	50	0000005F	8F	F3	00272	AOBLEQ	#95, I, 25\$	
	EC		66	D0	0027A	MOVL	PP_SCA, @SCA+100	
	F0	04	A6	D0	0027E	MOVL	PP_SCA+4, @SCA+104	
	F4	08	A6	D0	00283	MOVL	PP_SCA+8, @SCA+108	
	F8	0C	A6	D0	00288	MOVL	PP_SCA+12, @SCA+112	
	FC	10	A6	D0	0028D	MOVL	PP_SCA+16, @SCA+116	
	00	14	A6	D0	00292	MOVL	PP_SCA+20, @SCA+120	
	04	18	A6	D0	00297	MOVL	PP_SCA+24, @SCA+124	
	08	1C	A6	D0	0029C	MOVL	PP_SCA+28, @SCA+128	
	0C	20	A6	D0	002A1	MOVL	PP_SCA+32, @SCA+132	
	10	24	A6	D0	002A6	MOVL	PP_SCA+36, @SCA+136	
	14	28	A6	D0	002AB	MOVL	PP_SCA+40, @SCA+140	
	18	2C	A6	D0	002B0	MOVL	PP_SCA+44, @SCA+144	
		3C	A5	D4	002B5	CLRL	SCA+180	0557
			04	002B8	RET			0519
00000067	8F		53	D1	002B9	CML	R3, #103	0561
			09	13	002C0	BEQL	27\$	
0000006C	8F		53	D1	002C2	CML	R3, #108	
			12	12	002C9	BNEQ	29\$	
		08	A7	D5	002CB	TSTL	NUMPRM+12	0569
			05	13	002CE	BEQL	28\$	
64	A5		67	D0	002D0	MOVL	NUMPRM+4, SCA+220	0572
			04	002D4	RET			0569
64	A5	00000000G	FF	D0	002D5	MOVL	@PDT, SCA+220	0576
			04	002DD	RET			0583

: Routine Size: 734 bytes, Routine Base: \$CODE\$ + 0000

: 457 0584 1
: 458 0585 1 END
: 459 0586 0 ELUDOM

! End of module

PSECT SUMMARY

Name	Bytes	Attributes
\$OWNS	48	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)
\$CODE\$	734	NOVEC, NOWRT, RD, EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]XPORT.L32;1	590	0	0	252	00:00.2
_\$255\$DUA28:[RUNOFF.SRC]DSRLIB.L32;1	1248	71	5	86	00:00.3

COMMAND QUALIFIERS

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

: Size: 734 code + 48 data bytes
: Run Time: 00:15.8
: Elapsed Time: 00:44.1
: Lines/CPU Min: 2232
: Lexemes/CPU-Min: 18979
: Memory Used: 166 pages
: Compilation Complete

