


```

PPPPPPPP      LL      IIIIII      PPPPPPPP      UU      UU      TTTTTTTTTT      BBBB88888      UU      UU      FFFFFFFFFF
PPPPPPPP      LL      IIIIII      PPPPPPPP      UU      UU      TTTTTTTTTT      BBBB88888      UU      UU      FFFFFFFFFF
PP      PP      LL      II      PP      PP      TT      BB      BB      UU      UU      FF
PP      PP      LL      II      PP      PP      TT      BB      BB      UU      UU      FF
PP      PP      LL      II      PP      PP      TT      BB      BB      UU      UU      FF
PP      PP      LL      II      PPPPPPPP      UU      UU      TT      BBBB88888      UU      UU      FFFFFFFF
PPPPPPPP      LL      IIIIII      PPPPPPPP      UU      UU      TT      BBBB88888      UU      UU      FFFFFFFF
PP      LL      II      PP      UU      UU      TT      BB      BB      UU      UU      FF
PP      LL      II      PP      UU      UU      TT      BB      BB      UU      UU      FF
PP      LL      II      PP      UU      UU      TT      BB      BB      UU      UU      FF
PP      LL      II      PP      UU      UU      TT      BB      BB      UU      UU      FF
PP      LLLLLLLLLL      IIIIII      PP      UUUUUUUUUU      TT      BBBB88888      UUUUUUUUUU      FF
PP      LLLLLLLLLL      IIIIII      PP      UUUUUUUUUU      TT      BBBB88888      UUUUUUUUUU      FF

```

```

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
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS

```

```
0000 1      .title pli$putbuffer
0000 2      .ident /1-005/
0000 3
0000 4
0000 5
0000 6
0000 7
0000 8
0000 9
0000 10     *****
0000 11     *
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0000 28     *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 29     *
0000 30     *****
0000 31
0000 32     ++
0000 33     facility:
0000 34
0000 35         VAX/VMS PL1 runtime library
0000 36
0000 37     abstract:
0000 38
0000 39         This module contains the pl1 runtime routines for stream output
0000 40         buffer mapipulation.
0000 41
0000 42     author: c. spitz
0000 43
0000 44     modified:
0000 45
0000 46         1-002          Chip Nylander          03-Aug-1982
0000 47
0000 48         Signal line-counter overflow and page-couter overflow instead of
0000 49         dying in the RTL with an integer overflow.
0000 50
0000 51         1-003          Chip Nylander          07-Sep-1982
0000 52
0000 53         Clear the top half of R2 at PLI$$PUTSKIP_R2, since some callers
0000 54         do not; fix a couple of transcription errors.
0000 55
0000 56
0000 57         1-004          Bill Matthews          29-September-1982
```

```

0000 58 :
0000 59 :
0000 60 : Invoke macros $defdat and rtshare instead of $defopr and share.
0000 61 : 1-005 Chip Nylander 19-December-1983
0000 62 :
0000 63 : For PRINT files, implement PAGE by putting a formfeed in the
0000 64 : PRN post-processing field rather than sticking a ^L in the
0000 65 : data record. Non-PRINT files continue to work as always.
0000 66 :
0000 67 :--
0000 68 :
0000 69 :
0000 70 : external definitions
0000 71 :
0000 72 : $deffcb ;define file control block
0000 73 : $rabdef ;define rms rab offsets
0000 74 : $defstr ;define stream block offsets
0000 75 : $defplrtcons ;define runtime constants
0000 76 : $devdef ;define device bits in fab
0000 77 : $fabdef ;define fab offsets
0000 78 :
0000 79 :
0000 80 : local data
0000 81 :
0000 82 :
0000 83 : rtshare ;sharable
0000 84 :
0000 85 :++
0000 86 : pli$$putnlis_r6
0000 87 :
0000 88 : functional description:
0000 89 :
0000 90 : This routine puts elements into the buffer of a pl1 stream output
0000 91 : file. It is called by the pli$putl*** routines to copy the
0000 92 : contents of the stream block's field to the buffer. If the string
0000 93 : in the field will not fit in the remainder of the line, and the
0000 94 : line is not empty, a skip is performed. Whether the skip was performed
0000 95 : or not, the string in field is then copied to the buffer. If the line
0000 96 : is filled, rms is called to perform a $put.
0000 97 :
0000 98 : inputs:
0000 99 : r11 - address of the stream block
0000 100 : ap - address of the file control block
0000 101 : str_b_field(r11) - character string to output (in char var format)
0000 102 : fcb_l_buf_pt - address of next available char in buf
0000 103 : fcb_l_buf_end - address of the end of the buffer + 1
0000 104 : outputs:
0000 105 :
0000 106 : side effects:
0000 107 :
0000 108 :--
0000 109 : .enabl lsb
0000 110 pli$$putnlis_r6::
0000 111 bbc #atr_v_print,fcb_l_attr(ap),10$ ;if print file
52 2D 0C AC 07 E1 0005 112 bicw3 #7,fcb_w_column(ap),r2 ;round column down to last tab stop
2E AC 07 AB 000A 113 cmpw r2,fcb_w_column(ap) ;already at a tab stop?
2E AC 52 B1 000E 114 beql 10$ ;if eql, yes
22 13 000E 114

```



```

1C BC 61 56 28 008B 172      bgr  20$      ;if gtr, then no
1C AC 53 28 008D 173      movc3 r6,(r1),@fcb_l_buf_pt(ap) ;copy field to buf
2E AC 56 A0 0092 174      movl  r3,fcb_l_buf_pt(ap) ;update buf pointer
                                05 0096 175      addw  r6,fcb_w_column(ap) ;update column
                                05 009A 176      rsb   ;return
1C BC 56 52 A2 009B 177 20$: subw  r2,r6 ;get len left in field after copy
1C BC 61 52 28 009E 178      movc3 r2,(r1),@fcb_l_buf_pt(ap) ;copy beginning of field to buf
                                51 DD 00A3 179      pushl r1 ;save pointer in field
1C AC 53 D0 00A5 180      movl  r3,fcb_l_buf_pt(ap) ;update buffer pointer
                                0042 30 00A9 181      bsbw  pli$$putskp1_r2 ;write buffer to file
                                51 8ED0 00AC 182      popl  r1 ;restore pointer in field
                                D1 11 00AF 183      brb   10$ ;go again
                                00B1 184
                                00B1 185 ;++
                                00B1 186 ; pli$$put_rec - put a record to a stream file
                                00B1 187
                                00B1 188 ; this routine determines the length of the record that is in the buffer,
                                00B1 189 ; and issues a $put. upon successful completion, the column is reset to 0,
                                00B1 190 ; and the buffer is reset to the beginning of the buffer.
                                00B1 191
                                00B1 192 ; calling sequence:
                                00B1 193 ;     jsb     pli$$put_rec
                                00B1 194
                                00B1 195 ; inputs:
                                00B1 196 ;     fcb_l_buf(ap) - address of start of buffer
                                00B1 197 ;     fcb_l_buf_pt(ap) - address of last char to output + 1
                                00B1 198 ;     fcb_b_rab(ap) - rab
                                00B1 199 ; outputs:
                                00B1 200 ;     fcb_l_buf_pt(ap) - set to fcb_l_buf(ap)
                                00B1 201 ;     fcb_w_column(ap) - set to 0
                                00B1 202 ; side effects:
                                00B1 203 ;     r0 is destroyed
                                00B1 204 ;--
                                00B1 205
                                00B1 206 pli$$put_rec::
50 0A 0C AC 17 E1 00B1 207      fbc   #atr_v_string,fcb_l_attr(ap),10$ ;if string
00000000'8F D0 00B6 208      movl  #pli$_endstring,r0 ;set end string error
017A 31 00BD 209      brw   fail ;and fail
50 1C AC 14 AC C3 00C0 210 10$: subl3 fcb_l_buf(ap),fcb_l_buf_pt(ap),r0 ;get size of buf
0084 CC 50 80 00C6 211      movw  r0,<fcb_b_rab+rab$w_rsz>(ap) ;set size in rab
                                00CB 212      $put  fcb_b_rab(ap) ;put the record
                                00D5 213      clrl  fcb_l_prn(ap) ;clr prn area
                                0A 50 E8 00D8 214      blbs  r0,20$ ;if lbs, cont
50 00000000'8F D0 00DB 215      movl  #pli$_rmsr,r0 ;set rms rab error
0155 31 00E2 216      brw   fail ;and fail
1C AC 2E AC B4 00E5 217 20$: clrw  fcb_w_column(ap) ;set column to 0
0084 CC 50 D0 00E8 218      movl  fcb_l_buf(ap),fcb_l_buf_pt(ap) ;reset buffer pointer
                                05 00ED 219      rsb   ;return
                                00EE 220
                                00EE 221 ;++
                                00EE 222 ; pli$$putskp_r2 - process a skip option or format for an output stream file
                                00EE 223 ; pli$$putskp1_r2 - process one skip for an output stream file
                                00EE 224
                                00EE 225 ; this routine processes the skips for an output stream file. it differentiates
                                00EE 226 ; between print files and non-print output files. for print files, the skips are
                                00EE 227 ; accomplished by setting the number to skip in the prefix byte of the fixed
                                00EE 228 ; control area of the printer format file. for non-print files, the skips are

```

PL
PS

PS
--
In
Co
Pa
Sy
Pa
Sy
Ps
Cr
As

Th
34
Th
25
20

Ma
--
-\$
-\$
TO

62
Th
MA

```

00EE 229 : represented by new records.  if the number to skip is 0, the file must be a
00EE 230 : print file, and a carriage return is put into the prefix byte. (this is used
00EE 231 : for overprinting) for print files, skip will only take you to the end of the
00EE 232 : page if the number to skip is more than the number of lines left on the page.
00EE 233 : for the first skip processed, the contents of the buffer are printed before
00EE 234 : the buffer is cleared.
00EE 235 :
00EE 236 : inputs:
00EE 237 :     r2 - number of skips to perform
00EE 238 :     r11 - address of the stream block
00EE 239 :     ap - address of the file control block
00EE 240 : outputs:
00EE 241 :     fcb_w_column is set to 0
00EE 242 :     fcb_w_line is incremented
00EE 243 :     fcb_w_page may be incremented (and the endpage condition raised)
00EE 244 :
00EE 245 : side effects:
00EE 246 :     r0-r2 are destroyed
00EE 247 : --
00EE 248
00EE 249 pli$$putskip1_r2::
00EE 250     movl    #1,r2                ;set to skip 1
00F1 251 pli$$putskip_r2::
00F1 252     movzwl  r2,r2                ;clear top half of r2
OC OC AC 52 52 3C 00F1 253     bbc      #atr_v_print,fcb_l_attr(ap),5$ ;if not print, cont
1C AC   14 AC D1 00F4 254     cmpl    fcb_l_buf(ap),fcb_l_buf_pt(ap) ;anything in buffer?
00FE 255     bneq    5$                  ;if neg, cont
00100 256     tstl    fcb_l_prn(ap)         ;anything in prn?
0103 257     beql    6$                  ;if eql, no, don't do the put
0105 258 5$:  bsbw    pli$$put_rec          ;print the last record
0108 259 6$:  clrw    fcb_w_column(ap)    ;reset column
010B 260     tstl    r2                  ;skip <= 0?
010D 261     bgtr    20$                ;if gtr, then no
010F 262     bbc      #atr_v_print,fcb_l_attr(ap),10$ ;if not print, cont
0114 263     movzwl  #pli$c_cr,fcb_l_prn(ap) ;set cr in prn
011A 264     rsb                    ;return
011B 265 10$: movl    #1,r2                ;default to skip 1
011E 266 20$: bbc      #atr_v_print,fcb_l_attr(ap),30$ ;if not print, cont
0123 267     movzwl  fcb_w_line(ap),r1      ;get current line number
0127 268     addl    r2,r1                  ;generate new line number
012A 269     cmpl    r1,#32767            ;about to overflow?
0131 270     bleq    21$                ;no - branch
0133 271     movl    #pli$_linovrflo,r0    ;signal line overflow
013A 272     brw     fail                    ;
013D 273 21$: cmpw    r1,fcb_w_pagesize(ap) ;over a page?
0141 274     bleq    22$                ;if leq, then no
0143 275     cmpw    fcb_w_line(ap),fcb_w_pagesize(ap) ;already past pagesize?
0148 276     bleq    25$                ;if leq, then no
014A 277 22$: movzbl  r2,fcb_l_prn(ap)     ;set number of skips in prn
014E 278     addw    r2,fcb_w_line(ap)    ;update line number
0152 279     rsb                    ;return
0153 280 25$: subw3   fcb_w_line(ap),fcb_w_pagesize(ap),r0 ;get number of lines left
0159 281     incw    r0                    ;on page + 1
015B 282     movzbl  r0,fcb_l_prn(ap)     ;set number off skips in prn
015F 283     addw    r0,fcb_w_line(ap)    ;update line number
0163 284     pushl   ap                      ;push fcb addr
0165 285     pushl   #0                      ;set no secondary error code

```

```

00000000'8F DD 0167 286      pushl #pli$_endpage      ;set endpage cond
OC AC 08 CA 016D 287      bicl  #atr_m_recur, fcb_l_attr(ap) ;clr recursion flag
00000000'GF 03 FB 0171 288      calls #3,g*pli$_io_error ;signal the condition
OC AC 08 C8 0178 289      bisl  #atr_m_recur, fcb_l_attr(ap) ;set recursion flag
FF31 05 017C 290      rsb  ;return
FA 52 F5 017D 291 28$:  bsbw pli$$put_rec      ;do a skip
FA 52 F5 0180 292 30$:  sobgtr r2,28$        ;go again as required
05 0183 293      rsb  ;return
0184 294
0184 295      ;+
0184 296      ;pli$$putline_r6
0184 297      ; this routine process the line option or format for output stream files
0184 298      ;
0184 299      ;inputs:
0184 300      ;       r1 - line number
0184 301      ;       r11 - addr of stream block
0184 302      ;       ap - addr of fcb
0184 303      ;outputs:
0184 304      ;       none
0184 305      ;--
0184 306      pli$$putline_r6::
51 30 AC B1 0184 307      cmpw  fcb_w_line(ap),r1      ;already at the right line?
08 19 0188 308      blss  10$                ;if lss, then no
14 14 018A 309      bgtr  20$                ;if gtr, then no
2E AC B5 018C 310      tstw  fcb_w_column(ap)    ;at col. 0?
OF 12 018F 311      bneq  20$                ;if neq, then no
05 0191 312      rsb  ;at right place, return [case 2.1]
0192 313 10$:      ;req line > cur line
2C AC 51 B1 0192 314      cmpw  r1, fcb_w_pagesize(ap) ;line requested <= pagesize?
08 14 0196 315      bgtr  20$                ;if gtr, then no
52 51 30 AC A3 0198 316      subw3 fcb_w_line(ap),r1,r2 ;get number of lines to skip [case 2.2]
FF51 31 019D 317      brw  pli$$putskip_r2    ;go to the right line
52 2C AC 30 AC A3 01A0 318 20$:  ;req line = cur line-but col ^= 0 or cur line > req line
05 19 01A6 319      subw3 fcb_w_line(ap), fcb_w_pagesize(ap), r2 ;get number of lines left
52 52 B6 01A8 320      blss  30$                ;if lss, then we're already over a page
FF44 31 01AA 321      incw  r2                ;get lines left on page + 1 [case 2.3]
01AD 322      brw  pli$$putskip_r2 ;skip them
01AD 323 30$:      ;brw  pli$$putpage_r6
01AD 324
01AD 325
01AD 326      pli$$putpage_r6::
7FFF 8F 32 AC B1 01AD 327      cmpw  fcb_w_page(ap), #32767 ;about to overflow page counter
0A 19 01B3 328      blss  10$                ;no
50 00000000'8F D0 01B5 329      movl  #pli$_pagovrflo, r0 ;yes
007B 31 01BC 330      brw  fail
07 0C AC 07 DD 01BF 331 10$:      pushl  r5                ;save r5 in case bit src pending
35 AC 8C 8F E1 01C1 332      bbc  #atr_v_print, fcb_l_attr(ap), 20$ ;branch if not print file
56 01 D0 01CB 333      movb  #140, 1+ fcb_l_prn(ap) ;put formfeed in field
52 56 D0 01D0 334      brb  30$                ;rejoin common code
51 1A AB 9E 01D3 335 20$:      movl  #1, r6            ;set size to 1
61 0C 90 01D7 336      movl  r6, r2           ;set total size
FE61 30 01DA 337      movab <str_b_field+2>(r11), r1 ;set addr of field
FED1 30 01DD 338      movb  #^x0c, (r1)     ;put formfeed in field
34 AC 01 D0 01E0 339      bsbw  pli$$put_ctrl    ;put control char in buf
32 AC E6 01E4 340 30$:      bsbw  pli$$put_rec     ;output record
01E0 341      movl  #1, fcb_l_prn(ap) ;set prn to one for first skip
01E4 342      incw  fcb_w_page(ap) ;update page

```

```

30 AC 01 B0 01E7 343      movw  #1, fcb_w_line(ap)      ;reset line
      55 8ED0 01EB 344      popl  r5                      ;restore r5
      05      01EE 345      rsb                          ;return
      01EF 346
      01EF 347      :pli$put_end_r6
      01EF 348      :inputs:
      01EF 349      :      r11 - address of stream block
      01EF 350      :      ap - address of file control block
      01EF 351      :outputs:
      01EF 352      :      none
      01EF 353      :side effects:
      01EF 354      :      r0-r6 are destroyed
      01EF 355
      01EF 356      pli$put_end_r6::
      0C AC 08 C8 01EF 357      bisl  #atr_m_recur, fcb_l_attr(ap) ;set recursion flag
      21 0C AC 17 E0 01F3 358      bbs   #atr_v_string, fcb_l_attr(ap), 20$ ;if put string, cont
OF 00E6 CC 02 E1 01F8 359      bbc   #dev$v_trm, <fcb_b_fab+fcb_l_dev>(ap), 10$ ;if not term, cont
      OA 0C AC 07 E1 01FE 360      bbc   #atr_v_print, fcb_l_attr(ap), 10$ ;if not print, cont
      2E AC DD 0203 361      assume <fcb_w_column+2> eq fcb_w_line
      FE A8 30 0206 362      pushl fcb_w_column(ap) ;save line and column
      2E AC 8ED0 0209 363      bsbw  pli$$put_rec ;finish this line
50 00000000'8F D0 020D 364      popl  fcb_w_column(ap) ;restore them
      0C AC 08 CA 0214 365      movl  #ss$continue, r0 ;set continue (needed if called from
      OE 0C AC 18 E1 0219 366      bicl  #atr_m_recur, fcb_l_attr(ap) ;clr recursion flag
      50 14 AC D0 021E 367      ret   ;return
      51 1C AC 50 C3 0222 368      bbc   #atr_v_vcha, fcb_l_attr(ap), 30$ ;if vcha,
      FE A0 51 B0 0227 369      movl  fcb_l_buf(ap), r0 ;get addr of buf
      04 022B 370      subl3 r0, fcb_l_buf_pt(ap), r1 ;get length of string
      1C BC 50 18 AC 1C AC C3 022C 371      movw  r1, -2(r0) ;set length
      50 20 6E 00 2C 0232 372      ret   ;return
      04 0239 373      subl3 fcb_l_buf_pt(ap), fcb_l_buf_end(ap), r0 ;get length left in string
      08 AC 50 D0 023A 374      movc5 #0, (sp), #*x20, r0, @fcb_l_buf_pt(ap) ;blank out end of string
      5C DD 023E 375      ret   ;return
      00000000'8F DD 0240 376
      00000000'GF 03 FB 0242 377      fail: movl  r0, fcb_l_error(ap) ;set error in fcb
      04 024F 378      pushl ap ;set fcb addr
      0250 379      pushl r0 ;set error code
      0250 380      pushl #pli$error ;set error condition
      0250 381      calls #3, g^pli$error ;signal the condition
      0250 382      ret   ;return
      0250 383
      0250 384
      0250 385
      0250 386
      0250 387      .end

```

PLISPUTBUFFER
Symbol table

H 11

16-SEP-1984 02:22:54 VAX/VMS Macro V04-00
6-SEP-1984 11:39:16 [PLIRTL.SRC]PLIPUTBUF.MAR;1

Page 8
(1)

PL
1-

```

SS.TMP1          = 00000001
SS.TMP2          = 000000AC
ATR_M_RECUR     = 00000008
ATR_V_PRINT     = 00000007
ATR_V_STRING    = 00000017
ATR_V_VCHA      = 00000018
DEVS_V_TRM      = 00000002
FABSL_DEV       = 00000040
FAIL            = 0000023A R      02
FCB_B_ENVIR     = 000001C2
FCB_B_ESA       = 0000012E
FCB_B_EXTRA     = 0000003D
FCB_B_FAB       = 000000A6
FCB_B_IDENT     = 00000040
FCB_B_IDENT_NAM = 00000042
FCB_B_NAM       = 000000F6
FCB_B_NUMKCBS   = 0000003C
FCB_B_RAB       = 00000062
FCB_C_LEN       = 000001C2
FCB_C_STRLLEN  = 00000034
FCB_L_ATTR      = 0000000C
FCB_L_BUF       = 00000014
FCB_L_BUF_END   = 00000018
FCB_L_BUF_PT    = 0000001C
FCB_L_CNDADDR   = 000001B2
FCB_L_CONDIR    = 000001AE
FCB_L_DTTR      = 00000010
FCB_L_ERROR     = 00000008
FCB_L_KCB       = 00000038
FCB_L_NEXT      = 00000000
FCB_L_PREVIOUS  = 00000004
FCB_L_PRN       = 00000034
FCB_Q_RFA       = 00000020
FCB_W_COLUMN    = 0000002E
FCB_W_IDENT_LEN = 00000040
FCB_W_LINE      = 00000030
FCB_W_LINESIZE  = 0000002A
FCB_W_PAGE      = 00000032
FCB_W_PAGESIZE  = 0000002C
FCB_W_REVISION  = 00000028
PLISSPUTLINE_R6 = 00000184 RG      02
PLISSPUTNEDI_R6 = 0000007B RG      02
PLISSPUTNLIS_R6 = 00000000 RG      02
PLISSPUTPAGE_R6 = 000001AD RG      02
PLISSPUTSKIP_R2 = 000000F1 RG      02
PLISSPUTSKIP1_R2 = 000000EE RG      02
PLISSPUT_CONTRL = 0000003E R      02
PLISSPUT_REC    = 000000B1 RG      02
PLISC_CR        = 0000008D
PLISID_ERROR    = ***** X      02
PLISPUT_END_R6  = 000001EF RG      02
PLIS_ENDPAGE    = ***** X      02
PLIS_ENDSTRING  = ***** X      02
PLIS_ERROR      = ***** X      02
PLIS_LINOVRFLO  = ***** X      02
PLIS_PAGOVRFLO  = ***** X      02
PLIS_RMSR       = ***** X      02

```

```

RABSW_RSZ       = 00000022
SIZ...          = 00000001
SS$ CONTINUE    = ***** X      02
STR_B_FIELD     = 00000018
STR_C_LEN       = 000000C8
STR_L_FLD_END   = 00000014
STR_L_FLD_PT    = 00000010
STR_L_FP        = 00000004
STR_L_FS        = 0000000C
STR_L_PARENT    = 00000008
STR_L_SP        = 00000000
STR_L_STACK     = 000000C4
STR_L_STACK_END = 00000408
SYSSPOT        = ***** GX      02

```

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000C08 (3080.)	01 (.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_PLISCODE	00000250 (592.)	02 (2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC LONG

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	15	00:00:00.08	00:00:00.31
Command processing	77	00:00:00.55	00:00:02.09
Pass 1	186	00:00:06.46	00:00:12.05
Symbol table sort	0	00:00:00.62	00:00:01.14
Pass 2	75	00:00:01.42	00:00:03.03
Symbol table output	9	00:00:00.07	00:00:00.07
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	364	00:00:09.23	00:00:18.72

The working set limit was 1050 pages.
34970 bytes (69 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 543 non-local and 30 local symbols.
387 source lines were read in Pass 1, producing 11 object records in Pass 2.
19 pages of virtual memory were used to define 17 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1	4
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	10
TOTALS (all libraries)	14

616 GETS were required to define 14 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LISS:PLIPUTBUF/OBJ=OBJ\$:PLIPUTBUF MSRCS:PLIPUTBUF/UPDATE=(ENH\$:PLIPUTBUF)+LIB\$:PLIRTM

