```
PPPPPPPPPPP    LLL               IIIIIIIIII   RRRRRRRRRRR   TTTTTTTTTTTTTT   LLL
PPPPPPPPPPPP   LLL               IIIIIIIIII   RRRRRRRRRRR   TTTTTTTTTTTTTT   LLL
PPPPPPPPPPPP   LLL               IIIIIIIIII   RRRRRRRRRRR   TTTTTTTTTTTTTT   LLL
PPP      PPP   LLL                  III        RRR      RRR      TTT         LLL
PPP      PPP   LLL                  III        RRR      RRR      TTT         LLL
PPP      PPP   LLL                  III        RRR      RRR      TTT         LLL
PPP      PPP   LLL                  III        RRR      RRR      TTT         LLL
PPP      PPP   LLL                  III        RRR      RRR      TTT         LLL
PPP      PPP   LLL                  III        RRR      RRR      TTT         LLL
PPPPPPPPPPP    LLL                  III        RRRRRRRRRRR       TTT         LLL
PPPPPPPPPPPP   LLL                  III        RRRRRRRRRRR       TTT         LLL
PPPPPPPPPPPP   LLL                  III        RRRRRRRRRRR       TTT         LLL
PPP            LLL                  III        RRR   RRR         TTT         LLL
PPP            LLL                  III        RRR   RRR         TTT         LLL
PPP            LLL                  III        RRR   RRR         TTT         LLL
PPP            ILL                  III        RRR      RRR      TTT         LLL
PPP            _LL                  III        RRR      RRR      TTT         LLL
PPP            LLL                  III        RRR      RRR      TTT         LLL
PPP            LLLLLLLLLLLLLL   IIIIIIIIII     RRR      RRR      TTT    LLLLLLLLLLLLLL
PPP            LLLLLLLLLLLLLL   IIIIIIIIII     RRR      RRR      TTT    LLLLLLLLLLLLLL
PPP            LLLLLLLLLLLLLL   IIIIIIIIII     RRR      RRR      TTT    LLLLLLLLLLLLLL
```

```
PPPPPPPP    LL              IIIIII    PPPPPPPP    UU      UU  TTTTTTTTTT  EEEEEEEEEE  DDDDDDD      IIIIII
PPPPPPPP    LL              IIIIII    PPPPPPPP    UU      UU  TTTTTTTTTT  EEEEEEEEEE  DDDDDDD      IIIIII
PP    PP    LL                II      PP    PP    UU      UU      TT      EE          DD     DD      II
PP    PP    LL                II      PP    PP    UU      UU      TT      EE          DD     DD      II
PP    PP    LL                II      PP    PP    UU      UU      TT      EE          DD     DD      II
PPPPPPPP    LL                II      PPPPPPPP    UU      UU      TT      EEEEEEEE    DD     DD      II
PPPPPPPP    LL                II      PPPPPPPP    UU      UU      TT      EEEEEEEE    DD     DD      II
PP          LL                II      PP          UU      UU      TT      EE          DD     DD      II
PP          LL                II      PP          UU      UU      TT      EE          DD     DD      II
PP          LL                II      PP          UU      UU      TT      EE          DD     DD      II
PP          LL                II      PP          UU      UU      TT      EE          DD     DD      II     ....
PP          LLLLLLLLLL    IIIIII      PP          UUUUUUUUUU      TT      EEEEEEEEEE  DDDDDDD      IIIIII    ....
PP          LLLLLLLLLL    IIIIII      PP          UUUUUUUUUU      TT      EEEEEEEEEE  DDDDDDD      IIIIII    ....


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

```
0000      1            .title  pliSputedititem
0000      2            .ident  /1-003/                        ; Edit WHM1003
0000      3
0000      4    ;
0000      5    ;*****************************************************************
0000      6    ;*                                                               *
0000      7    ;*  COPYRIGHT (c) 1979, 1980, 1982, 1984 BY                      *
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0000     23    ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.      *
0000     24    ;*                                                               *
0000     25    ;*                                                               *
0000     26    ;*****************************************************************
0000     27    ;
0000     28
0000     29    ;++
0000     30    ; facility:
0000     31    ;
0000     32    ;       VAX/VMS PL1 runtime library
0000     33    ;
0000     34    ; abstract:
0000     35    ;
0000     36    ;       This module contains the pl1 runtime routines to put items to a
0000     37    ;       pl1 stream file under edit controlled format.
0000     38    ;
0000     39    ;
0000     40    ; author: c. spitz 28-nov-79
0000     41    ;
0000     42    ; modified:
0000     43    ;
0000     44    ;       Bill Matthews 23-Oct-1981
0000     45    ;           V1.4-02:
0000     46    ;               Added code to clear the recursion bit at the end of an item's
0000     47    ;               processing so that the inline code for the next item is able to
0000     48    ;               call functions which also do I/O.
0000     49    ;
0000     50    ;
0000     51    ;       1-002   Bill Matthews    29-September-1982
0000     52    ;
0000     53    ;               Invoke macros $defdat and rtshare instead of $defopr and share.
0000     54    ;
0000     55    ;--
0000     56    ;
0000     57    ;
```

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1-003   6-SEP-1984 11:39:24   [PLIRTL.SRC]PLIPUTEDI.MAR;1   (1)

```
                        0000        58  ; external definitions
                        0000        59  ;
                        0000        60          $deffcb                         ;define file control block
                        0000        61          $defstk                         ;define stack frame offsets
                        0000        62          $defstr                         ;define stream block offsets
                        0000        63          $defdat                         ;define operand node data types
                        0000        64          $defgetopt                      ;define get options block
                        0000        65          $defcvtind                      ;define convert case indices
                        0000        66          $rabdef                         ;define rms rab offsets
                        0000        67          $rmsdef                         ;define rms error codes
                        0000        68
                        0000        69  ;
                        0000        70  ; local data
                        0000        71  ;
                        0000        72
                        0000        73          rtshare                         ;sharable
                        0000        74
                        0000        75  ;+.
                        0000        76  ; pli$pute****
                        0000        77  ;
                        0000        78  ; the pli$pute**** routines are called by the compiled code to put items
                        0000        79  ; to a stream output file under edit directed transmission. each routine
                        0000        80  ; pushes the source item descriptor, along with its data type, and jumps
                        0000        81  ; to pli$$putfmt_r6.
                        0000        82  ;--
                        0000        83
                        0000        84  ;pli$putechar_r6
                        0000        85  ; inputs:
                        0000        86  ;       r0 - address of element to put
                        0000        87  ;       r1 - size/prec of element to put
                        0000        88  ;       r11 - address of stream block
                        0000        89  ;       ap - address of file control block
                        0000        90  ; outputs:
                        0000        91  ;       none
                        0000        92  ; side effects:
                        0000        93  ;       r0-r6 are destroyed
                        0000        94
                        0000        95  pli$putechar_r6::
     0C AC   08   C8    0000        96          bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
 00000015'EF   9F       0004        97          pushab  retputedi                   ;push return address
        7E   50   7D    000A        98          movq    r0,-(sp)                    ;save source
             2D   DD    000D        99          pushl   #cvt_k_src_char             ;set for char source
 00000000'GF   17       000F       100          jmp     g^pli$$putfmt_r6            ;get format, convert and output field
                        0015       101  retputedi:
     0C AC   08   CA    0015       102          bicl    #atr_m_recur,fcb_l_attr(ap) ;clear recursion flag
             05         0019       103          rsb
                        001A       104
                        001A       105  ;pli$putevcha_r6
                        001A       106  ;       inputs:
                        001A       107  ;       r0 - address of element to put
                        001A       108  ;       r1 - size/prec of element to put
                        001A       109  ;       r11 - address of stream block
                        001A       110  ;       ap - address of file control block
                        001A       111  ;       outputs:
                        001A       112  ;       none
                        001A       113  ;       side effects:
                        001A       114  ;       r0-r6 are destroyed
```

```
                          001A    115 ;
                          001A    116
                          00*A    117 pli$putevcha_r6::
OC AC   08    C8          001A    118         bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
     F4 AF   9F           001E    119         pushab  retputedi                   ;push return address
     7E  50  7D           0021    120         movq    r0,-(sp)                    ;save source
        36  DD            0024    121         pushl   #cvt_k_src_vcha             ;set for vchar source
00000000'GF   17          0026    122         jmp     g^pli$$putfmt_r6            ;get format, convert and output field
                          002C    123
                          002C    124 ;pli$putebit_r6
                          002C    125 ;    inputs:
                          002C    126 ;       r0 - address of element to put
                          002C    127 ;       r1 - size/prec of element to put
                          002C    128 ;       r2 - offset of bit string
                          002C    129 ;       r11 - address of stream block
                          002C    130 ;       ap - address of file control block
                          002C    131 ;    outputs:
                          002C    132 ;       none
                          002C    133 ;    side effects:
                          002C    134 ;       r0-r6 are destroyed
                          002C    135 ;
                          002C    136
                          002C    137 pli$putebit_r6::
OC AC   08    C8          002C    138         bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
     55  52  D0           0030    139         movl    r2,r5                       ;save offset
     DF AF   9F           0033    140         pushab  retputedi                   ;push return address
     7E  50  7D           0036    141         movq    r0,-(sp)                    ;save source
        3F  DD            0039    142         pushl   #cvt_k_src_bit              ;set for bit source
00000000'GF   17          003B    143         jmp     g^pl~$$putfmt_r6            ;get format, convert and output field
                          0041    144
                          0041    145 ;pli$puteabit_r6
                          0041    146 ;    inputs:
                          0041    147 ;       r0 - address of element to put
                          0041    148 ;       r1 - size/prec of element to put
                          0041    149 ;       r11 - address of stream block
                          0041    150 ;       ap - address of file control block
                          0041    151 ;    outputs:
                          0041    152 ;       none
                          0041    153 ;    side effects:
                          0041    154 ;       r0-r6 are destroyed
                          0041    155 ;
                          0041    156
                          0041    157 pli$puteabit_r6::
OC AC   08    C8          0041    158         bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
     CD AF   9F           0045    159         pushab  retputedi                   ;push return address
     7E  50  7D           0048    160         movq    r0,-(sp)                    ;save source
00000048 8F   DD          004B    161         pushl   #cvt_k_src_abit             ;set for abit source
00000000'GF   17          0051    162         jmp     g^pli$$putfmt_r6            ;get format, convert and output field
                          0057    163
                          0057    164 ;pli$putefixb_r6
                          0057    165 ;    inputs:
                          0057    166 ;       r0 - address of element to put
                          0057    167 ;       r1 - size/prec of element to put
                          0057    168 ;       r11 - address of stream block
                          0057    169 ;       ap - address of file control block
                          0057    170 ;    outputs:
                          0057    171 ;       none
```

```
                          0057    172 ;       side effects:
                          0057    173 ;           r0-r6 are destroyed
                          0057    174 ;
                          0057    175
                          0057    176 pli$putefixb_r6::
   OC AC   08    C8       0057    177           bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
       B7 AF    9F       005B    178           pushab  retputedi                  ;push return address
   7E    50    7D       005E    179           movq    r0,-(sp)                   ;save source
             09    DD       0061    180           pushl   #cvt_k_src_fixb            ;set for fixb source
   00000000'GF   17       0063    181           jmp     g^pli$$put?mt_r6           ;get format, convert and output field
                          0069    182
                          0069    183 ;pli$putefixd_r6
                          0069    184 ;       inputs:
                          0069    185 ;           r0 - address of element to put
                          0069    186 ;           r1 - size/prec of element to put
                          0069    187 ;           r11 - address of stream block
                          0069    188 ;           ap - address of file control block
                          0069    189 ;       outputs:
                          0069    190 ;           none
                          0069    191 ;       side effects:
                          0069    192 ;           r0-r6 are destroyed
                          0069    193 ;
                          0069    194
                          0069    195 pli$putefixd_r6::
   OC AC   08    C8       0069    196           bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
       A5 AF    9F       006D    197           pushab  retputedi                  ;push return address
   7E    50    7D       0070    198           movq    r0,-(sp)                   ;save source
             1B    DD       0073    199           pushl   #cvt_k_src_fixd            ;set for fixd source
   00000000'GF   17       0075    200           jmp     g^pli$$put?mt_r6           ;get format, convert and output field
                          007B    201
                          007B    202 ;pli$putefltb_r6
                          007B    203 ;       inputs:
                          007B    204 ;           r0 - address of element to put
                          007B    205 ;           r1 - size/prec of element to put
                          007B    206 ;           r11 - address of stream block
                          007B    207 ;           ap - address of file control block
                          007B    208 ;       outputs:
                          007B    209 ;           none
                          007B    210 ;       side effects:
                          007B    211 ;           r0-r6 are destroyed
                          007B    212 ;
                          007B    213
                          007B    214 pli$putefltb_r6::
   OC AC   08    C8       007B    215           bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
       93 AF    9F       007F    216           pushab  retputedi                  ;push return address
   7E    50    7D       0082    217           movq    r0,-(sp)                   ;save source
             12    DD       0085    218           pushl   #cvt_k_src_fltb            ;set for fltb source
   00000000'GF   17       0087    219           jmp     g^pli$$put?mt_r6           ;get format, convert and output field
                          008D    220
                          008D    221 ;pli$putefltd_r6
                          008D    222 ;       inputs:
                          008D    223 ;           r0 - address of element to put
                          008D    224 ;           r1 - size/prec of element to put
                          008D    225 ;           r11 - address of stream block
                          008D    226 ;           ap - address of file control block
                          008D    227 ;       outputs:
                          008D    228 ;           none
```

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PLI$PUTEDITITEM   16-SEP-1984 02:23:21   VAX/VMS Macro V04-00   Page 5   PL
1-003   6-SEP-1984 11:39:24   [PLIRTL.SRC]PLIPUTEDI.MAR;1   (1)   1-

```
                          008D   229 ;      side effects:
                          008D   230 ;          r0-r6 are destroyed
                          008D   231 ;
                          008D   232
                          008D   233 pli$putefltd_r6::
   OC AC   08   C8        008D   234         bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
         81 AF   9F       0091   235         pushab  retputedi               ;push return address
      7E   50   7D        0094   236         movq    r0,-(sp)                ;save source
              24   DD     0097   237         pushl   #cvt_k_src_fltd         ;set for fltd source
 00000000'GF   17         0099   238         jmp     g^pli$$putfmt_r6        ;get format, convert and output field
                          009F   239
                          009F   240 ;pli$putepic_r6
                          009F   241 ;      inputs:
                          009F   242 ;          r0 - address of element to put
                          009F   243 ;          r1 - size/prec of element to put
                          009F   244 ;          r11 - address of stream block
                          009F   245 ;          ap - address of file control block
                          009F   246 ;      outputs:
                          009F   247 ;          none
                          009F   248 ;      side effects:
                          009F   249 ;          r0-r6 are destroyed
                          009F   250
                          009F   251 pli$putepic_r6::
   OC AC   08   C8        009F   252         bisl    #atr_m_recur,fcb_l_attr(ap) ;set recursion flag
       FF6E CF   9F       00A3   253         pushab  retputedi               ;push return address
      7E   50   7D        00A7   254         movq    r0,-(sp)                ;save source
              00   DD     00AA   255         pushl   #cvt_k_src_pic          ;set for pic source
 00000000'GF   17         00AC   256         jmp     g^pli$$putfmt_r6        ;get format, convert and output field
                          00B2   257
                          00B2   258         .end
```

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PLI$PUTEDITITEM   16-SEP-1984 02:23:21   VAX/VMS Macro V04-00   Page 6   PL
Symbol table   6-SEP-1984 11:39:24   [PLIRTL.SRC]PLIPUTEDI.MAR;1   (1)   1-

ATR_M_RECUR	= 00000008	
CVT_K_SRC_ABIT	= 00000048	
CVT_K_SRC_BIT	= 0000003F	
CVT_K_SRC_CHAR	= 0000002D	
CVT_K_SRC_FIXB	= 00000009	
CVT_K_SRC_FIXD	= 0000001B	
CVT_K_SRC_FLTB	= 00000012	
CVT_K_SRC_FLTD	= 00000024	
CVT_K_SRC_PIC	= 00000000	
CVT_K_SRC_VCHA	= 00000036	
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_STRLEN	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_CONDIT	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	
GETOPT_B_BITS	00000009	
GETOPT_B_TMO	00000008	
GETOPT_C_LEN	0000000A	
GETOPT_L_FXDCTL	00000000	
GETOPT_L_PROMPT	00000004	
PLI$$POTFMT_R6	******** X	02
PLI$PUTEABIT_R6	00000041 RG	02
PLI$PUTEBIT_R6	0000002C RG	02
PLI$PUTECHAR_R6	00000000 RG	02
PLI$PUTEFIXB_R6	00000057 RG	02
PLI$PUTEFIXD_R6	00000069 RG	02
PLI$PUTEFLTB_R6	0000007B RG	02
PLI$PUTEFLTD_R6	0000008D RG	02
PLI$PUTEPIC_R6	0000009F RG	02
PLI$PUTEVCHA_R6	0000001A RG	02
RETPUTEDI	00000015 R	02

SIZ...	= 00000001
STK_L_AP	00000008
STK_L_ARG_LIST	FFFFFFF8
STK_L_CND_HND	00000000
STK_L_CND_LST	FFFFFFF4
STK_L_DISPLAY	FFFFFFFC
STK_L_FP	0000000C
STK_L_PC	00000010
STK_L_PSL	00000004
STK_L_REGS	00000014
STR_B_FIELD	00000018
STR_C_LEN	00000C08
STR_L_FLD_END	00000014
STR_L_FLD_PT	00000C10
STR_L_FP	00000004
STR_L_FS	0000000C
STR_L_PARENT	00000008
STR_L_SP	00000000
STR_L_STACK	00000C04
STR_L_STACK_END	00000408

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PLI$PUTEDITITEM   16-SEP-1984 02:23:21 VAX/VMS Macro V04-00   Page 7   PL
Psect synopsis   6-SEP-1984 11:39:24 [PLIRTL.SRC]PLIPUTEDI.MAR;1   (1)   1-

```
                              +-----------------+
                              ! Psect synopsis  !
                              +-----------------+

PSECT name                  Allocation      PSECT No.   Attributes
----------                  ----------      ---------   ----------
.  ABS  .                   00000000 (    0.)  00 (   0.)  NOPIC   USR   CON  ABS   LCL NOSHR NOEXE NORD   NOWRT NOVEC BYTE
$ABS$                       FFFFFFFC (    0.)  01 (   1.)  NOPIC   USR   CON  ABS   LCL NCSHR  EXE   RD     WRT NOVEC BYTE
_PLI$CODE                   000000B2 (  178.)  02 (   2.)    PIC   USR   CON  REL   LCL  SHR   EXE   RD   NOWRT NOVEC LONG

                         +--------------------------+
                         ! Performance indicators   !
                         +--------------------------+

Phase                   Page faults    CPU Time       Elapsed Time
-----                   -----------    --------       ------------
Initialization                    9    00:00:00.08    00:00:00.33
Command processing               77    00:00:00.57    00:00:02.25
Pass 1                          190    00:00:06.57    00:00:15.67
Symbol table sort                 0    00:00:00.66    00:00:01.42
Pass 2                           49    00:00:01.22    00:00:02.11
Symbol table output              10    00:00:00.09    00:00:00.15
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            337    00:00:09.21    00:00:21.96
```

The working set limit was 900 pages.
34430 bytes (68 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 574 non-local and 0 local symbols.
258 source lines were read in Pass 1, producing 10 object records in Pass 2.
20 pages of virtual memory were used to define 18 macros.

```
                         +----------------------------+
                         ! Macro library statistics   !
                         +----------------------------+

Macro library name                      Macros defined
------------------                      --------------
_$255$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1          7
_$255$DUA28:[SYSLIB]STARLET.MLB;2               7
TOTALS (all libraries)                         14
```

623 GETS were required to define 14 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LIS$:PLIPUTEDI/OBJ=OBJ$:PLIPUTEDI MSRC$:PLIPUTEDI/UPDATE=(ENH$:PLIPUTEDI)+LIB$:PLIRTM

PLIFORMAT
LIS

PLIGETBUF
LIS

PLIMSGTXT
LIS

PLIGETEDI
LIS

PLIHEEP
LIS

PLIPUTFIL
LIS

PLIRMSBIS
LIS

PLIRECOPT
LIS

PLIOPEN
LIS

PLIREAD
LIS

PLIPROTEC
LIS

PLIREWRIT
LIS

PLIGETLIS
LIS

PLIPUTEDI
LIS

PLIPKDIVL
LIS

PLIPUTLIS
LIS

PLIMSGPTR
LIS

PLIPKDIVS
LIS

PLIPUTBUF
LIS

PLIGETFIL
LIS