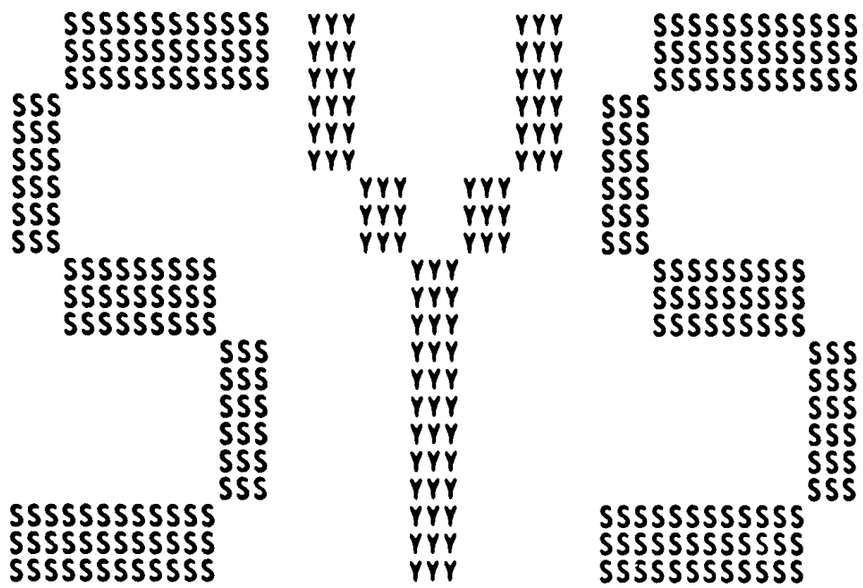

```
  AAAAAA      CCCCCCCC    CCCCCCCC    OOOOOO    UU      UU  NN      NN  TTTTTTTTTT
  AAAAAA      CCCCCCCC    CCCCCCCC    OOOOOO    UU      UU  NN      NN  TTTTTTTTTT
AA      AA  CC          CC          OO      OO  UU      UU  NN      NN      TT
AA      AA  CC          CC          OO      OO  UU      UU  NN      NN      TT
AA      AA  CC          CC          OO      OO  UU      UU  NNNN    NN      TT
AA      AA  CC          CC          OO      OO  UU      UU  NNNN    NN      TT
AA      AA  CC          CC          OO      OO  UU      UU  NN  NN  NN      TT
AA      AA  CC          CC          OO      OO  UU      UU  NN  NN  NN      TT
AAAAAAAAAA  CC          CC          OO      OO  UU      UU  NN    NNNN      TT
AAAAAAAAAA  CC          CC          OO      OO  UU      UU  NN    NNNN      TT
AA      AA  CC          CC          OO      OO  UU      UU  NN      NN      TT          ....
AA      AA  CC          CC          OO      OO  UU      UU  NN      NN      TT          ....
AA      AA    CCCCCCCC    CCCCCCCC    OOOOOO    UUUUUUUUUU  NN      NN      TT          ....
AA      AA    CCCCCCCC    CCCCCCCC    OOOOOO    UUUUUUUUUU  NN      NN      TT          ....

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

Table of contents

```
0000     1          .TITLE  ACCOUNT -- ACCOUNTING MESSAGE SUBROUTINES
0000     2          .IDENT  'V04-000'
0000     3
0000     4 ;
0000     5 ;*****************************************************************************
0000     6 ;*                                                                           *
0000     7 ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
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0000    24 ;*                                                                           *
0000    25 ;*                                                                           *
0000    26 ;*****************************************************************************
0000    27
0000    28 ;++
0000    29 ; FACILITY: EXECUTIVE
0000    30 ;
0000    31 ; ABSTRACT:
0000    32 ;
0000    33 ; ENVIRONMENT:  KERNEL MODE, IPL 0 OR SPECIAL KERNEL AST (IPL 2)
0000    34 ;
0000    35 ;
0000    36          .SBTTL  HISTORY                 ; DETAILED
0000    37 ;
0000    38 ; AUTHOR:       Steve Forgey     CREATION DATE:         01-Aug-1981
0000    39 ;
0000    40 ; MODIFIED BY:
0000    41 ;
0000    42 ;       V03-005 MLJ0113         Martin L. Jack, 2-May-1983  0:07
0000    43 ;               Always write process termination message to job controller,
0000    44 ;               without filtering on ACM$V_PROCESS.  Also fix a broken BSBW.
0000    45 ;
0000    46 ;       V03-004 CWH1002         CW Hobbs                    24-Feb-1983
0000    47 ;               Change so that extended pid and owner are used in the
0000    48 ;               accounting records.
0000    49 ;
0000    50 ;       V03-003 LJK0190         Lawrence J. Kenah           15-Nov-1982
0000    51 ;               Fix bug introduced by LJK0186 that did not fully note that
0000    52 ;               registers containing image name and address changed.
0000    53 ;
0000    54 ;       V03-002 LJK0186         Lawrence J. Kenah           22-Oct-1982
0000    55 ;               Perform access checks before picking up image name from
0000    56 ;               image header buffer page in P1 space.
0000    57 ;
```

```
0000     58 ;       V03-001 KDM0002         Kathleen D. Morse       28-Jun-1982
0000     59 ;               Added $PRDEF.
0000     60 ;--
```

```
                        .SBTTL  DECLARATIONS
                        .PSECT  YF$LOWUSE

                ;
                ; EQUATED SYMBOLS:
                ;

                        $ACMDEF                         ; DEFINE AST CONTROL BLOCK
                        $IPLDEF                         ; PROCESSOR INTERRUPT LEVELS
                        $MSGDEF                         ; DEFINE MAILBOX MESSAGE TYPES
                        $PCBDEF                         ; DEFINE PCB OFFSETS
                        $PHDDEF                         ; DEFINE PROCESS HEADER OFFSETS

                        ASSUME  ACM$W_MAILBOX EQ ACM$W_TYPE+2
                        ASSUME  ACM$Q_PRVMSK EQ ACM$W_MAILBOX+2
                        ASSUME  ACM$L_UIC EQ ACM$Q_PRVMSK+8
                        ASSUME  ACM$T_USERNAME EQ ACM$L_UIC+4
                        ASSUME  ACM$T_ACCOUNT EQ ACM$T_USERNAME+12
                        ASSUME  ACM$B_PROCPRI EQ ACM$T_ACCOUNT+8
                        ASSUME  ACM$L_PID EQ ACM$B_PROCPRI+4
                        ASSUME  ACM$L_STS EQ ACM$L_PID+4
                        ASSUME  ACM$L_OWNER EQ ACM$L_STS+4
                        ASSUME  ACM$T_TERMINAL EQ ACM$L_OWNER+4
                        ASSUME  ACM$Q_SYSTIME EQ ACM$T_TERMINAL+8
                        ASSUME  ACM$Q_LOGIN EQ ACM$Q_SYSTIME+8
                        ASSUME  ACM$L_FINALSTS EQ ACM$Q_LOGIN+8
                        ASSUME  ACM$L_IMGCNT EQ ACM$L_FINALSTS+4
                        ASSUME  ACM$L_CPUTIME EQ ACM$L_IMGCNT+4
                        ASSUME  ACM$L_PAGEFLTS EQ ACM$L_CPUTIME+4
                        ASSUME  ACM$L_PGFLTIO EQ ACM$L_PAGEFLTS+4
                        ASSUME  ACM$L_WSPEAK EQ ACM$L_PGFLTIO+4
                        ASSUME  ACM$L_PGFLPEAK EQ ACM$L_WSPEAK+4
                        ASSUME  ACM$L_DIOCNT EQ ACM$L_PGFLPEAK+4
                        ASSUME  ACM$L_BIOCNT EQ ACM$L_DIOCNT+4
                        ASSUME  ACM$L_VOLUMES EQ ACM$L_BIOCNT+4
                        ASSUME  ACM$W_NODEADDR EQ ACM$L_VOLUMES+4
                        ASSUME  ACM$W_NODENAME EQ ACM$W_NODEADDR+2
                        ASSUME  ACM$W_REMOTEID EQ ACM$W_NODENAME+2
                        ASSUME  ACM$W_IMAGENAME EQ ACM$Q_REMOTEID+2
                        ASSUME  ACM$K_PROCLEN EQ ACM$W_IMAGENAME+2
```

```
                                0000   104          .SBTTL  IMAGE ACCOUNTING MESSAGE
                                0000   105
                                0000   106 ;++
                                0000   107 ; FUNCTIONAL DESCRIPTION:
                                0000   108 ;
                                0000   109 ;
                                0000   110 ; INPUT PARAMETERS:
                                0000   111 ;       R4 = PCB ADDRESS
                                0000   112 ;       R5 = ACB ADDRESS (IF SPECIAL KERNEL AST ROUTINE)
                                0000   113 ;          = 0           (OTHERWISE)
                                0000   114 ;
                                0000   115 ; OUTPUT PARAMETERS:
                                0000   116 ;       R0 = RETURN STATUS
                                0000   117 ;
                                0000   118 ;--
                                0000   119
                                0000   120          .ENABLE LSB
                                0000   121
                                0000   122 EXE$IMGPURMSG::                          ; SEND IMAGE PURGE MESSAGE
                    0FFE 8F     BB 0000   123          PUSHR   #^M<R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>;SAVE R1-R11
                    56   0D     3C 0004   124          MOVZWL  #MSG$_PURIMAG,R6        ; SET UP MESSAGE TYPE
                         07     11 0007   125          BRB     10$
                                0009   126
                                0009   127 EXE$IMGDELMSG::                          ; SEND IMAGE TERMINATION MESSAGE
                    0FFE 8F     BB 0009   128          PUSHR   #^M<R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>;SAVE R1-R11
                    56   0C     3C 000D   129          MOVZWL  #MSG$_DELIMAG,R6        ; SET UP MESSAGE TYPE
                                0010   130 10$:
          16 00000000'EF    01  E1 0010   131          BBC     #ACM$V_IMAGE,EXE$GL_ACMFLAGS,20$; IF BC, IMAGE ACCOUNTING NOT ENABLE
             11 24 A4       0F  E0 0018   132          BBS     #PCB$V_NOACNT,PCB$L_STS(R4),20$; IF BS, NO ACCOUNTING FOR PROCESS
                                001D   133          SETIPL  #IPL$_ASTDEL            ; LOCK OUT AST DELIVERY
51   00000004'9F    00000000'9F  C9 0020   134          BISL3   @#CTL$GQ_ISTART,@#CTL$GQ_ISTART+4,R1; IMAGE ACCOUNTING ACTIVE ?
                            03  12 002C   135          BNEQ    30$                     ; IF NEQ, YES
                                002E   136 20$:
                          0208  31 002E   137          BRW     EXIT
                                0031   138 30$:
                        57  5E  D0 0031   139          MOVL    SP,R7                   ; SAVE SP (END OF BUFFER)
                                0034   140 ;
                                0034   141 ; IMAGE NAME
                                0034   142 ;
                        5B  54  D0 0034   143          MOVL    R4,R11                  ; SAVE PCB ADDRESS IN SAFE PLACE
                            5A  D4 0037   144          CLRL    R10                     ; ASSUME NO IMAGE NAME
                54  00000000'9F  DE 0039   145          MOVAL   @#CTL$GL_IMGHDRBF,R4    ; GET POINTER TO IMAGE HEADER BUFFER
                    00000000'GF  16 0040   146          JSB     G^EXE$CHKIMAGNAME       ; IS IMAGE NAME ACCESSIBLE?
                                0E  13 0046   147          BEQL    35$                     ; BRANCH IF INACCESSIBLE
                        5E  53  C2 0048   148          SUBL2   R3,SP                   ; ALLOCATE BUFFER SPACE
                        7E  53  90 004B   149          MOVB    R3,-(SP)                ; STORE IMAGE NAME SIZE
                 01 AE  64  53  28 004E   150          MOVC3   R3,(R4),1(SP)           ; COPY IMAGE NAME
                        5A  5E  D0 0053   151          MOVL    SP,R10                  ; IMAGE NAME ADDRESS
                                0056   152 ;
                                0056   153 ; REMOTE NODE INFORMATION
                                0056   154 ;
                59  00000000'9F  9A 0056   155 35$:     MOVZBL  @#CTL$T_REMOTEID,R9     ; GET REMOTE ID BYTE COUNT
                                12 005D   156          BEQL    40$                     ; IF EQL, NO REMOTE ID
                        5E  59  C2 005F   157          SUBL2   R9,SP                   ; ALLOCATE BUFFER SPACE
                        7E  59  90 0062   158          MOVB    R9,-(SP)                ; BYTE COUNT
          01 AE 00000001'9F  59  28 0065   159          MOVC3   R9,@#CTL$T_REMOTEID+1,1(SP); COPY REMOTE ID
                        59  5E  D0 006E   160          MOVL    SP,R9                   ; REMOTE ID ADDRESS
```

```
                                  0071   161 40$:
            58   00000000'9F   9A 0071   162         MOVZBL  @#CTL$T_NODENAME,R8      ; GET NODE NAME BYTE COUNT
                         12     13 0078   163         BEQL    50$                     ; IF EQL, NO REMOTE NODE NAME
                      5E 58     C2 007A   164         SUBL2   R8,SP                   ; ALLOCATE BUFFER SPACE
                      7E 58     90 007D   165         MOVB    R8,-(SP)                ; BYTE COUNT
      01 AE   00000001'9F 58     28 0080   166         MOVC3   R8,@#CTL$T_NODENAME+1,1(SP); COPY REMOTE NODE NAME
                      58 5E     D0 0089   167         MOVL    SP,R8                   ; REMOTE NODE NAME ADDRESS
                                  008C   168 50$:
            51   00000000'9F   9A 008C   169         MOVZBL  @#CTL$T_NODEADDR,R1     ; GET NODE ADDRESS BYTE COUNT
                         12     13 0093   170         BEQL    60$                     ; IF EQL, NO REMOTE NODE ADDRESS
                      5E 51     C2 0095   171         SUBL2   R1,SP                   ; ALLOCATE BUFFER SPACE
                      7E 51     90 0098   172         MOVB    R1,-(SP)                ; BYTE COUNT
      01 AE   00000001'9F 51     28 009B   173         MOVC3   R1,@#CTL$T_NODEADDR+1,1(SP); COPY REMOTE NODE ADDRESS
                      51 5E     D0 00A4   174         MOVL    SP,R1                   ; REMOTE NODE ADDRESS ADDRESS
                                  00A7   175 60$:
                         7E     7C 00A7   176         CLRQ    -(SP)                   ; NODE ADDRESS, NAME, REM. ID, IMAGE
                      54 5B     D0 00A9   177         MOVL    R11,R4                  ; RESTORE PCB ADDRESS TO USUAL REGISTER
                                  00AC   178 ;
                                  00AC   179 ; RESOURCE DATA
                                  00AC   180 ;
7E  00000000'9F   00000000'9F     C3 00AC   181         SUBL3   @#CTL$GL_IVOLUMES,@#CTL$GL_VOLUMES,-(SP); IMAGE VOLUME MOUNTS
            55    00000000'9F     D0 00B8   182         MOVL    @#CTL$GL_PHD,R5         ; PHD ADDRESS
      7E    58 A5 00000000'9F     C3 00BF   183         SUBL3   @#CTL$GL_IBIOCNT,PHD$L_BIOCNT(R5),-(SP); IMAGE BUFFERED I/O COUNT
      7E    54 A5 00000000'9F     C3 00C8   184         SUBL3   @#CTL$GL_IDIOCNT,PHD$L_DIOCNT(R5),-(SP); IMAGE DIRECT I/O COUNT
               7E 00000000'9F     7D 00D1   185         MOVQ    @#CTL$GL_IWSPEAK,-(SP)  ; IMAGE WORKING SET AND PAGE FILE PEAK
   7E    0108 C5 00000000'9F     C3 00D8   186         SUBL3   @#CTL$GL_IFAULTIO,PHD$L_PGFLTIO(R5),-(SP); IMAGE PAGE FAULT I/O COUN
      7E    4C A5 00000000'9F     C3 00E2   187         SUBL3   @#CTL$GL_IFAULTS,PHD$L_PAGEFLTS(R5),-(SP); IMAGE PAGE FAULT COUNT
      7E    38 A5 00000000'9F     C3 00EB   188         SUBL3   @#CTL$GL_ICPUTIM,PHD$L_CPUTIM(R5),-(SP); IMAGE CPU TIME
                     00F4 C5     DD 00F4   189         PUSHL   PHD$L_IMGCNT(R5)        ; IMAGE SEQUENCE NUMBER
                  00000000'9F    DD 00F8   190         PUSHL   @#CTL$GL_FINALSTS       ; IMAGE FINAL STATUS
               7E 00000000'9F     7D 00FE   191         MOVQ    @#CTL$GQ_ISTART,-(SP)   ; IMAGE START TIME
                        00B2     31 0105   192         BRW     IDENT                   ; JOIN COMMON CODE
                                  0108   193
                                  0108   194         .DISABLE LSB
```

```
                                0108   196          .SBTTL  PROCESS ACCOUNTING MESSAGE
                                0108   197
                                0108   198 ;++
                                0108   199 ; FUNCTIONAL DESCRIPTION:
                                0108   200 ;
                                0108   201 ;
                                0108   202 ; INPUT PARAMETERS:
                                0108   203 ;       R4 = PCB ADDRESS
                                0108   204 ;       R5 = ACB ADDRESS (IF SPECIAL KERNEL AST ROUTINE)
                                0108   205 ;          = 0           (OTHERWISE)
                                0108   206 ;
                                0108   207 ; OUTPUT PARAMETERS:
                                0108   208 ;       R0 = RETURN STATUS
                                0108   209 ;
                                0108   210 ;--
                                0108   211
                                0108   212          .ENABLE LSB
                                0108   213
                                0108   214 EXE$PRCPURMSG::                        ; SEND PROCESS PURGE MESSAGE
        OFFE 8F    BB          0108   215          PUSHR   #^M<R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>;SAVE R1-R11
        56   0B    3C          010C   216          MOVZWL  #MSG$_PURPROC,R6        ; SET UP MESSAGE TYPE
             07    11          010F   217          BRB     10$
                               0111   218
                               0111   219 EXE$PRCDELMSG::                        ; SEND PROCESS TERMINATION MESSAGE
        OFFE 8F    BB          0111   220          PUSHR   #^M<R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>;SAVE R1-R11
        56   03    3C          0115   221          MOVZWL  #MSG$_DELPROC,R6        ; SET UP MESSAGE TYPE
                               0118   222 10$:
  03 24 A4   0F    E1          0118   223          BBC     #PCB$V_NOACNT,PCB$L_STS(R4),30$; IF BS, NO ACCOUNTING FOR PROCESS
                               011D   224 20$:
           0119    31          011D   225          BRW     EXIT
                               0120   226 30$:
        57   5E    D0          0120   227          MOVL    SP,R7                   ; SAVE SP (END OF BUFFER)
                               0123   228 ;
                               0123   229 ; IMAGE NAME
                               0123   230 ;
             5A    D4          0123   231          CLRL    R10                     ; NO IMAGE NAME
                               0125   232 ;
                               0125   233 ; REMOTE NODE INFORMATION
                               0125   234 ;
    59   00000000'9F   9A      0125   235          MOVZBL  @#CTL$T_REMOTEID,R9     ; GET REMOTE ID BYTE COUNT
                  17   13      012C   236          BEQL    40$                     ; IF EQL, NO REMOTE ID
              5E   59   C2      012E   237          SUBL2   R9,SP                   ; ALLOCATE BUFFER SPACE
              7E   59   90      0131   238          MOVB    R9,-(SP)                ; BYTE COUNT
                   54   DD      0134   239          PUSHL   R4                      ; SAVE PCB ADDRESS
  05 AE 00000001'9F   59   28   0136   240          MOVC3   R9,@#CTL$T_REMOTEID+1,5(SP); COPY REMOTE ID
                   54 8ED0      013F   241          POPL    R4                      ; RESTORE PCB ADDRESS
              59   5E   D0      0142   242          MOVL    SP,R9                   ; REMOTE ID ADDRESS
                               0145   243 40$:
    58   00000000'9F   9A      0145   244          MOVZBL  @#CTL$T_NODENAME,R8     ; GET NODE NAME BYTE COUNT
                  17   13      014C   245          BEQL    50$                     ; IF EQL, NO REMOTE NODE NAME
              5E   58   C2      014E   246          SUBL2   R8,SP                   ; ALLOCATE BUFFER SPACE
              7E   58   90      0151   247          MOVB    R8,-(SP)                ; BYTE COUNT
                   54   DD      0154   248          PUSHL   R4                      ; SAVE PCB ADDRESS
  05 AE 00000001'9F   58   28   0156   249          MOVC3   R8,@#CTL$T_NODENAME+1,5(SP); COPY REMOTE NODE NAME
                   54 8ED0      015F   250          POPL    R4                      ; RESTORE PCB ADDRESS
              58   5E   D0      0162   251          MOVL    SP,R8                   ; REMOTE NODE NAME ADDRESS
                               0165   252 50$:
```

```
                51   00000000'9F    9A  0165    253          MOVZBL  a#CTL$T_NODEADDR,R1      ; GET NODE ADDRESS BYTE COUNT
                               17    13  016C    254          BEQL    60$                       ; IF EQL, NO REMOTE NODE ADDRESS
                            5E   51    C2  016E    255          SUBL2   R1,SP                     ; ALLOCATE BUFFER SPACE
                            7E   51    90  0171    256          MOVB    R1,-(SP)                  ; BYTE COUNT
                                 54    DD  0174    257          PUSHL   R4                        ; SAVE PCB ADDRESS
          05 AE   00000001'9F    51    28  0176    258          MOVC3   R1,a#CTL$T_NODEADDR+1,5(SP); COPY REMOTE NODE ADDRESS
                                 54  8ED0  017F    259          POPL    R4                        ; RESTORE PCB ADDRESS
                            51   5E    D0  0182    260          MOVL    SP,R1                     ; REMOTE NODE ADDRESS ADDRESS
                                       0185    261 60$:
                                 7E   7C  0185    262          CLRQ    -(SP)                     ; NODE ADDRESS, NAME, REM. ID, IMAGE
                                       0187    263 ;
                                       0187    264 ; RESOURCE DATA
                                       0187    265 ;
                     00000000'9F       DD  0187    266          PUSHL   a#CTL$GL_VOLUMES          ; VOLUMES MOUNTED
                51   00000000'9F       D0  018D    267          MOVL    a#CTL$GL_PHD,R5           ; PHD ADDRESS
                      7E   54 A5       7D  0194    268          MOVQ    PHD$L_DIOCNT(R5),-(SP)    ; DIRECT AND BUFFERED IO COUNTS
                7E   00000000'9F       7D  0198    269          MOVQ    a#CTL$GL_WSPEAK,-(SP)     ; WORKING SET AND PAGE FILE PEAK
                        0108 C5        DD  019F    270          PUSHL   PHD$L_PGFLTIO(R5)         ; PAGE FAULT I/O COUNT
                           4C A5       DD  01A3    271          PUSHL   PHD$L_PAGEFLTS(R5)        ; PAGE FAULT COUNT
                           38 A5       DD  01A6    272          PUSHL   PHD$L_CPUTIM(R5)          ; CPU TIME
                        00F4 C5        DD  01A9    273          PUSHL   PHD$L_IMGCNT(R5)          ; IMAGE EXECUTION COUNT
                     00000000'9F       DD  01AD    274          PUSHL   a#CTL$GL_FINALSTS         ; FINAL STATUS
                7E   00000000'9F       7D  01B3    275          MOVQ    a#CTL$GQ_LOGIN,-(SP)      ; LOGIN TIME
                                       01BA    276
                                       01BA    277          .DISABLE LSB
```

```
                                01BA   279          .SBTTL  COMMON IDENTIFICATION DATA
                                01BA   280
                                01BA   281 IDENT:
7E   00000000'EF    7D          01BA   282          MOVQ    EXE$GQ_SYSTIME,-(SP)     ; CURRENT TIME
     7E    44 A4    7D          01C1   283          MOVQ    PCB$T_TERMINAL(R4),-(SP); INTERACTIVE PROCESS TERMINAL NAME
           68 A4    DD          01C5   284          PUSHL   PCB$L_EOWNER(R4)         ; EXTENDED PID OF SUBPROCESS OWNER (0 => NON
           24 A4    DD          01C8   285          PUSHL   PCB$L_STS(R4)            ; PROCESS STATUS
           64 A4    DD          01CB   286          PUSHL   PCB$L_EPID(R4)           ; EXTENDED PROCESS ID
              7E    B4          01CE   287          CLRW    -(SP)                    ; 3 SPARE BYTES
              7E    94          01D0   288          CLRB    -(SP)                    ;
 7E    1F    2F A4    83          01D2   289          SUBB3   PCB$B_PRIB(R4),#31,-(SP); PROCESS BASE PRIORITY
7E   00000000'9F    7D          01D7   290          MOVQ    @#CTL$T_ACCOUNT,-(SP)    ; ACCOUNT NAME
7E   00000004'9F    7D          01DE   291          MOVQ    @#CTL$T_USERNAME+4,-(SP); USERNAME
     00000000'9F    DD          01E5   292          PUSHL   @#CTL$T_USERNAME
         00BC C4    DD          01EB   293          PUSHL   PCB$L_UIC(R4)            ; PROCESS UIC
     7E    0084 C4    7D          01EF   294          MOVQ    PCB$Q_PRIV(R4),-(SP)     ; PRIVILEGE MASK
              56    DD          01F4   295          PUSHL   R6                       ; MESSAGE TYPE AND RESPONSE MAILBOX (0)
              51    D5          01F6   296          TSTL    R1                       ; NODE ADDRESS PRESENT ?
              07    13          01F8   297          BEQL    10$                      ; IF EQL, NO
        51    5E    C2          01FA   298          SUBL2   SP,R1                    ; NODE NAME OFFSET
     74 AE    51    F7          01FD   299          CVTLW   R1,ACM$W_NODEADDR(SP)
                                0201   300 10$:
              58    D5          0201   301          TSTL    R8                       ; NODE NAME PRESENT ?
              07    13          0203   302          BEQL    20$                      ; IF EQL, NO
        58    5E    C2          0205   303          SUBL2   SP,R8                    ; NODE NAME OFFSET
     76 AE    58    F7          0208   304          CVTLW   R8,ACM$W_NODENAME(SP)
                                020C   305 20$:
              59    D5          020C   306          TSTL    R9                       ; REMOTE ID PRESENT ?
              07    13          020E   307          BEQL    30$                      ; IF EQL, NO
        59    5E    C2          0210   308          SUBL2   SP,R9                    ; REMOTE ID OFFSET
     78 AE    59    F7          0213   309          CVTLW   R9,ACM$W_REMOTEID(SP)
                                0217   310 30$:
              5A    D5          0217   311          TSTL    R10                      ; IMAGE NAME PRESENT ?
              07    13          0219   312          BEQL    40$                      ; IF EQL, NO
        5A    5E    C2          021B   313          SUBL2   SP,R10                   ; IMAGE NAME OFFSET
     7A AE    5A    F7          021E   314          CVTLW   R10,ACM$W_IMAGENAME(SP)
                                0222   315 40$:
55   00000000'EF    DE          0222   316          MOVAL   SYS$GL_JOBCTLMB,R5       ; ACCOUNTING MANAGER MAILBOX UCB ADDR
  53    57    5E    C3          0229   317          SUBL3   SP,R7,R3                 ; MESSAGE SIZE
        54    5E    D0          022D   318          MOVL    SP,R4                    ; MESSAGE ADDRESS
     00000000'GF    16          0230   319          JSB     G^EXE$SENDMSG            ; SEND MESSAGE TO JOB CONTROLLER
        5E    57    D0          0236   320          MOVL    R7,SP                    ; CLEAN UP STACK
                                0239   321 EXIT:
         0FFE 8F    BA          0239   322          POPR    #^M<R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>; RESTORE R1-R11
              55    D5          023D   323          TSTL    R5                       ; SPECIAL KERNEL AST ROUTINE ?
              0A    12          023F   324          BNEQ    10$                      ; IF NEQ, YES
     00000000'9F    7C          0241   325          CLRQ    @#CTL$GQ_ISTART          ; MARK IMAGE ACCOUNTING INACTIVE
                                0247   326          SETIPL  #0                       ; ENABLE AST DELIVERY
                    05          024A   327          RSB
                                024B   328 10$:
        50    55    D0          024B   329          MOVL    R5,R0                    ; ADDRESS OF ACB TO DEALLOCATE
     00000000'EF    17          024E   330          JMP     EXE$DEANONPAGED          ; DEALLOCATE ACB ON THE WAY OUT
                                0254   331
                                0254   332          .END
```

```
ACM$B_PROCPRI                   = 00000024
ACM$K_PROCLEN                   = 0000007C
ACM$L_BIOCNT                    = 0000006C
ACM$L_CPUTIME                   = 00000054
ACM$L_DIOCNT                    = 00000068
ACM$L_FINALSTS                  = 0000004C
ACM$L_IMGCNT                    = 00000050
ACM$L_OWNER                     = 00000030
ACM$L_PAGEFLTS                  = 00000058
ACM$L_PGFLPEAK                  = 00000064
ACM$L_PGFLTIO                   = 0000005C
ACM$L_PID                       = 00000028
ACM$L_STS                       = 0000002C
ACM$L_UIC                       = 0000000C
ACM$L_VOLUMES                   = 00000070
ACM$L_WSPEAK                    = 00000060
ACM$Q_LOGIN                     = 00000044
ACM$Q_PRVMSK                    = 00000004
ACM$Q_SYSTIME                   = 0000003C
ACM$T_ACCOUNT                   = 0000001C
ACM$T_TERMINAL                  = 00000034
ACM$T_USERNAME                  = 00000010
ACM$V_IMAGE                     = 00000001
ACM$W_IMAGENAME                 = 0000007A
ACM$W_MAILBOX                   = 00000002
ACM$W_NODEADDR                  = 00000074
ACM$W_NODENAME                  = 00000076
ACM$W_REMOTEID                  = 00000078
ACM$W_TYPE                      = 00000000
CTL$GL_FINALSTS                 ********    X   01
CTL$GL_IBIOCNT                  ********    X   01
CTL$GL_ICPUTIM                  ********    X   01
CTL$GL_IDIOCNT                  ********    X   01
CTL$GL_IFAULTIO                 ********    X   01
CTL$GL_IFAULTS                  ********    X   01
CTL$GL_IMGHDRBF                 ********    X   01
CTL$GL_IVOLUMES                 ********    X   01
CTL$GL_IWSPEAK                  ********    X   01
CTL$GL_PHD                      ********    X   01
CTL$GL_VOLUMES                  ********    X   01
CTL$GL_WSPEAK                   ********    X   01
CTL$GQ_ISTART                   ********    X   01
CTL$GQ_LOGIN                    ********    X   01
CTL$T_ACCOUNT                   ********    X   01
CTL$T_NODEADDR                  ********    X   01
CTL$T_NODENAME                  ********    X   01
CTL$T_REMOTEID                  ********    X   01
CTL$T_USERNAME                  ********    X   01
EXE$CRKIMAGNAME                 ********    X   01
EXE$DEANONPAGED                 ********    X   01
EXE$GL_ACMFLAGS                 ********    X   01
EXE$GQ_SYSTIME                  ********    X   01
EXE$IMGDELMSG                   00000009 RG     01
EXE$IMGPURMSG                   00000000 RG     01
EXE$PRCDELMSG                   00000111 RG     01
EXE$PRCPURMSG                   00000108 RG     01
EXE$SENDMSG                     ********    X   01
EXIT                            00000239 R      01
IDENT                           000001BA R      01
IPL$_ASTDEL                   = 00000002
MSG$_DELIMAG                  = 0000000C
MSG$_DELPROC                  = 00000003
MSG$_PURIMAG                  = 0000000D
MSG$_PURPROC                  = 0000000B
PCB$B_PRIB                    = 0000002F
PCB$L_EOWNER                  = 00000068
PCB$L_EPID                    = 00000064
PCB$L_STS                     = 00000024
PCB$L_UIC                     = 000000BC
PCB$Q_PRIV                    = 00000084
PCB$T_TERMINAL                = 00000044
PCB$V_NOACNT                  = 0000000F
PHD$L_BIOCNT                  = 00000058
PHD$L_CPUTIM                  = 00000038
PHD$L_DIOCNT                  = 00000054
PHD$L_IMGCNT                  = 000000F4
PHD$L_PAGEFLTS                = 0000004C
PHD$L_PGFLTIO                 = 00000108
PR$_IPL                         ********    X   01
SYS$GL_JOBCTLMB                 ********    X   01
```

Psect synopsis

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
YF$LOWUSE	00000254 (596.)	01 (1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
ABS	00000000 (0.)	02 (2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	34	00:00:00.07	00:00:00.50
Command processing	164	00:00:00.64	00:00:04.70
Pass 1	211	00:00:04.94	00:00:20.84
Symbol table sort	0	00:00:00.58	00:00:01.93
Pass 2	77	00:00:01.19	00:00:04.47
Symbol table output	10	00:00:00.09	00:00:00.35
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	500	00:00:07.54	00:00:32.81

The working set limit was 1350 pages.
26742 bytes (53 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 423 non-local and 18 local symbols.
332 source lines were read in Pass 1, producing 16 object records in Pass 2.
14 pages of virtual memory were used to define 13 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[SYS.OBJ]LIB.MLB;1	5
_255DUA28:[SYSLIB]STARLET.MLB;2	5
TOTALS (all libraries)	10

479 GETS were required to define 10 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:ACCOUNT/OBJ=OBJ$:ACCOUNT MSRC$:ACCOUNT/UPDATE=(ENH$:ACCOUNT)+EXECML$/LIB

ALLOCPFN
LIS

ACCOUNT
LIS

CMODSSDSP
MAR

SYSMAR
MAR

SYSPARAM
MAR

ASTDEL
LIS