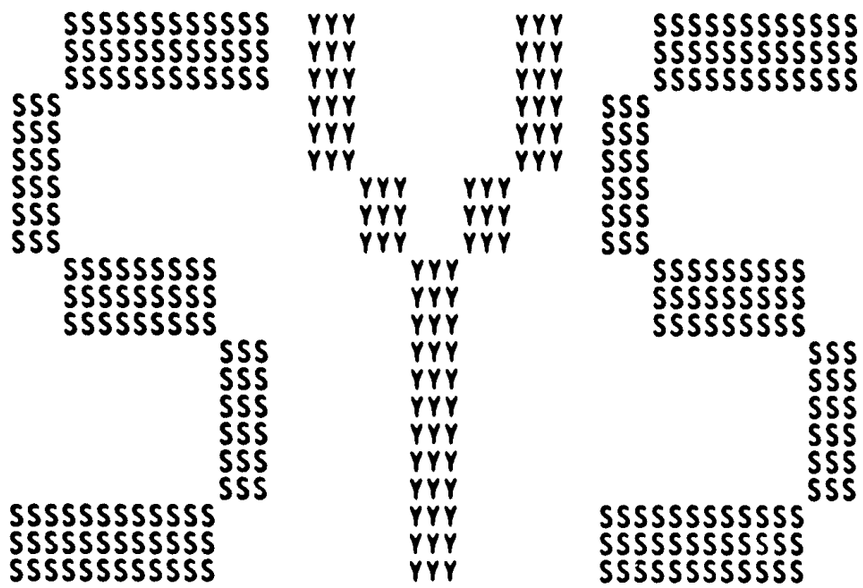

FILEID**SDAT

SEC
V04

```
  SSSSSSSS  DDDDDDDD      AAAAAA    TTTTTTTTTT
  SSSSSSSS  DDDDDDDD      AAAAAA    TTTTTTTTTT
SS          DD      DD   AA      AA      TT
SS          DD      DD   AA      AA      TT
SS          DD      DD   AA      AA      TT
SS          DD      DD   AA      AA      TT
  SSSSSS    DD      DD   AA      AA      TT
  SSSSSS    DD      DD   AA      AA      TT
        SS  DD      DD   AAAAAAAAAA      TT
        SS  DD      DD   AAAAAAAAAA      TT
        SS  DD      DD   AA      AA      TT          ....
        SS  DD      DD   AA      AA      TT          ....
SSSSSSSS    DDDDDDDD     AA      AA      TT          ....
SSSSSSSS    DDDDDDDD     AA      AA      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    SS^SSSSS
```

```
0000     1          .TITLE  SDAT SCHEDULER DATA
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;*****************************************************************************
0000     5  ;*                                                                           *
0000     6  ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
0000     7  ;*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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0000    22  ;*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                  *
0000    23  ;*                                                                           *
0000    24  ;*                                                                           *
0000    25  ;*****************************************************************************
0000    26
0000    27  ;++
0000    28  ; FACILITY: EXECUTIVE,SCHEDULER
0000    29  ;
0000    30  ; ABSTRACT: THIS MODULE CONTAINS THE STATIC GLOBAL DATA FOR ALL
0000    31  ;           PROCESS SCHEDULING MODULES.
0000    32  ;
0000    33  ;       V03-001 HRJ0060         Herb Jacobs     30-Mar-1982
0000    34  ;               Add flags for swapper to synchronize FREWSLE with process.
0000    35  ;
0000    36  ;       V02-003 HRJ0051         Herb Jacobs     29-Jan-1982
0000    37  ;               Added flag byte for RELPFN to communicate with OSWPSCHED.
0000    38  ;               Remove global definitions of unused SIP flags.
0000    39  ;
0000    40  ;       V02-002 SPF0006         Steve Forgey    06-Jul-1981
0000    41  ;               Add cumulative pages inswapped counter
0000    42  ;
0000    43  ;--
0000    44          $STATEDEF                       ; SCHEDULER STATE DEFINITIONS
0000    45  ;
0000    46  ; MACROS:
0000    47  ;
0000    48          .MACRO  $HEADR
0000    49          .LONG   .
0000    50          .LONG   .-4
0000    51          .ENDM
0000    52
0000    53  ;
0000    54  ;       WAIT QUEUE HEADER GENERATING MACRO
0000    55  ;
0000    56  ;       WQHEAD  WAITSTATE,QNAME
0000    57  ;
```

```
                     0000     58          .MACRO  WQHEAD,STATE,QNAME
                     0000     59 SAVE.=.
                     0000     60 ST=SCH$C_'STATE
                     0000     61 STMP=ST-MXST
                     0000     62          .IF     GT,STMP
                     0000     63          .REPT   STMP
                     0000     64          $HEADR
                     0000     65          .LONG   0
                     0000     66          .ENDR
                     0000     67 SAVE.=.
                     0000     68 MXST=ST
                     0000     69          .ENDC
                     0000     70 ST=12*ST
                     0000     71 .=ST+SCH$AQ_WQHDR
                     0000     72 SCH$GQ_'QNAME::
                     0000     73          $HEADR
                     0000     74          .WORD   0
                     0000     75          .WORD   SCH$C_'STATE
                     0000     76          .IF     GT,STMP
                     0000     77 SAVE.=.
                     0000     78          .ENDC
                     0000     79 .=SAVE.
                     0000     80          .ENDM   WQHEAD
                     0000     81
                     0000     82 ;
                     0000     83 ; EQUATES:
                     0000     84 ;
                     0000     85 MXST=1                                   ;INITIALIZE MAXIMUM STATE SEEN
                     0000     86
                     0000     87 ;
                     0000     88 ; SCHEDULER GLOBAL DATA AREA
                     0000     89 ;
                     0000     90 ;       CAUTION - - THESE DATA STRUCTURES ARE CAREFULLY ORDERED AND
                     0000     91 ;                   SHOULD NOT BE ALTERED WITHOUT MAKING CORRESPONDING
                     0000     92 ;                   CHANGES IN ALL CODE REFERENCING THEM.
                     0000     93 ;
                 00000000     94          .PSECT  $$$220,LONG
 00000000 00000000   0000     95          .LONG   0,0                         ; ZERO HEADER FOR OSWPSCHED SCAN
                     0008     96 SCH$AQ_COMH::
             00000008'  0008     97          .LONG   .                   ;PRIORITY 0 COMPUTE QUEUE HEAD
                     000C     98 SCH$AQ_COMT::
             00000008'  000C     99          .LONG   .-4                 ;PRIORITY 0 COMPUTE QUEUE TAIL
                     0010    100 ;
                     0010    101          $HEADR                         ;PRIORITY 1 COMPUTE QUEUE HEADER
                     0018    102          $HEADR                         ;PRIORITY 2 COMPUTE QUEUE HEADER
                     0020    103          $HEADR                         ;PRIORITY 3 COMPUTE QUEUE HEADER
                     0028    104          $HEADR                         ;PRIORITY 4 COMPUTE QUEUE HEADER
                     0030    105          $HEADR                         ;PRIORITY 5 COMPUTE QUEUE HEADER
                     0038    106          $HEADR                         ;PRIORITY 6 COMPUTE QUEUE HEADER
                     0040    107          $HEADR                         ;PRIORITY 7 COMPUTE QUEUE HEADER
                     0048    108          $HEADR                         ;PRIORITY 8 COMPUTE QUEUE HEADER
                     0050    109          $HEADR                         ;PRIORITY 9 COMPUTE QUEUE HEADER
                     0058    110          $HEADR                         ;PRIORITY 10 COMPUTE QUEUE HEADER
                     0060    111          $HEADR                         ;PRIORITY 11 COMPUTE QUEUE HEADER
                     0068    112          $HEADR                         ;PRIORITY 12 COMPUTE QUEUE HEADER
                     0070    113          $HEADR                         ;PRIORITY 13 COMPUTE QUEUE HEADER
                     0078    114          $HEADR                         ;PRIORITY 14 COMPUTE QUEUE HEADER
```

```
                     0080   115          $HEADR                  ;PRIORITY 15 COMPUTE QUEUE HEADER
                     0088   116          $HEADR                  ;PRIORITY 16 COMPUTE QUEUE HEADER
                     0090   117          $HEADR                  ;PRIORITY 17 COMPUTE QUEUE HEADER
                     0098   118          $HEADR                  ;PRIORITY 18 COMPUTE QUEUE HEADER
                     00A0   119          $HEADR                  ;PRIORITY 19 COMPUTE QUEUE HEADER
                     00A8   120          $HEADR                  ;PRIORITY 20 COMPUTE QUEUE HEADER
                     00B0   121          $HEADR                  ;PRIORITY 21 COMPUTE QUEUE HEADER
                     00B8   122          $HEADR                  ;PRIORITY 22 COMPUTE QUEUE HEADER
                     00C0   123          $HEADR                  ;PRIORITY 23 COMPUTE QUEUE HEADER
                     00C8   124          $HEADR                  ;PRIORITY 24 COMPUTE QUEUE HEADER
                     00D0   125          $HEADR                  ;PRIORITY 25 COMPUTE QUEUE HEADER
                     00D8   126          $HEADR                  ;PRIORITY 26 COMPUTE QUEUE HEADER
                     00E0   127          $HEADR                  ;PRIORITY 27 COMPUTE QUEUE HEADER
                     00E8   128          $HEADR                  ;PRIORITY 28 COMPUTE QUEUE HEADER
                     00F0   129          $HEADR                  ;PRIORITY 29 COMPUTE QUEUE HEADER
                     00F8   130          $HEADR                  ;PRIORITY 30 COMPUTE QUEUE HEADER
                     0100   131          $HEADR                  ;PRIORITY 31 COMPUTE QUEUE HEADER
                     0108   132 SCH$AQ_COMQH::                   ; NON_RESIDENT COMPUTE QUEUE HEADER VECTOR
00000108'            0108   133          .LONG   .               ; PRIORITY 0 NON-RES HEADER
                     010C   134 SCH$AQ_COMQT::                   ; NON-RESIDENT COMPUTE QUEUE TAIL VECTOR
00000108'            010C   135          .LONG   .-4             ;
                     0110   136          $HEADR                  ; PRIORITY 1 NON-RES COMPUTE QUEUE
                     0118   137          $HEADR                  ; PRIORITY 2 NON-RES COMPUTE QUEUE
                     0120   138          $HEADR                  ; PRIORITY 3 NON-RES COMPUTE QUEUE
                     0128   139          $HEADR                  ; PRIORITY 4 NON-RES COMPUTE QUEUE
                     0130   140          $HEADR                  ; PRIORITY 5 NON-RES COMPUTE QUEUE
                     0138   141          $HEADR                  ; PRIORITY 6 NON-RES COMPUTE QUEUE
                     0140   142          $HEADR                  ; PRIORITY 7 NON-RES COMPUTE QUEUE
                     0148   143          $HEADR                  ; PRIORITY 8 NON-RES COMPUTE QUEUE
                     0150   144          $HEADR                  ; PRIORITY 9 NON-RES COMPUTE QUEUE
                     0158   145          $HEADR                  ; PRIORITY 10 NON-RES COMPUTE QUEUE
                     0160   146          $HEADR                  ; PRIORITY 11 NON-RES COMPUTE QUEUE
                     0168   147          $HEADR                  ; PRIORITY 12 NON-RES COMPUTE QUEUE
                     0170   148          $HEADR                  ; PRIORITY 13 NON-RES COMPUTE QUEUE
                     0178   149          $HEADR                  ; PRIORITY 14 NON-RES COMPUTE QUEUE
                     0180   150          $HEADR                  ; PRIORITY 15 NON-RES COMPUTE QUEUE
                     0188   151          $HEADR                  ; PRIORITY 16 NON-RES COMPUTE QUEUE
                     0190   152          $HEADR                  ; PRIORITY 17 NON-RES COMPUTE QUEUE
                     0198   153          $HEADR                  ; PRIORITY 18 NON-RES COMPUTE QUEUE
                     01A0   154          $HEADR                  ; PRIORITY 19 NON-RES COMPUTE QUEUE
                     01A8   155          $HEADR                  ; PRIORITY 20 NON-RES COMPUTE QUEUE
                     01B0   156          $HEADR                  ; PRIORITY 21 NON-RES COMPUTE QUEUE
                     01B8   157          $HEADR                  ; PRIORITY 22 NON-RES COMPUTE QUEUE
                     01C0   158          $HEADR                  ; PRIORITY 23 NON-RES COMPUTE QUEUE
                     01C8   159          $HEADR                  ; PRIORITY 24 NON-RES COMPUTE QUEUE
                     01D0   160          $HEADR                  ; PRIORITY 25 NON-RES COMPUTE QUEUE
                     01D8   161          $HEADR                  ; PRIORITY 26 NON-RES COMPUTE QUEUE
                     01E0   162          $HEADR                  ; PRIORITY 27 NON-RES COMPUTE QUEUE
                     01E8   163          $HEADR                  ; PRIORITY 28 NON-RES COMPUTE QUEUE
                     01F0   164          $HEADR                  ; PRIORITY 29 NON-RES COMPUTE QUEUE
                     01F8   165          $HEADR                  ; PRIORITY 30 NON-RES COMPUTE QUEUE
                     0200   166          $HEADR                  ; PRIORITY 31 NON-RES COMPUTE QUEUE
                     0208   167 ;
                     0208   168 ;
                     0208   169 ;       WAIT QUEUE HEADERS
                     0208   170 ;
                     0208   171 ;       THE WAIT QUEUE HEADERS ARE ARRANGED IN STATE NUMBER ORDER
```

```
                     0208   172 ;       BY THE WQHEAD MACRO.  SINCE THEY ARE INDEXED BY STATE NUMBER
                     0208   173 ;       THIS ORDER MUST BE PRESERVED.
                     0208   174 ;
                     0208   175 ;
000001FC             0208   176 SCH$AQ_WQHDR==.-12              ; BASE OF WAIT QUEUE HEADER VECTOR
                     0208   177         WQHEAD  LEF,LEFWQ       ; LOCAL EVENT FLAG WAIT (RESIDENT)
                     0244   178         WQHEAD  LEFO,LEFOWQ     ; LOCAL EVENT FLAG WAIT (NON-RESIDENT)
                     0250   179         WQHEAD  HIB,HIBWQ       ; HIBERNATE WAIT (RESIDENT)
                     025C   180         WQHEAD  HIBO,HIBOWQ     ; HIBERNATE WAIT (NON-RESIDENT)
                     0268   181         WQHEAD  SUSP,SUSP       ; SUSPENDED (RESIDENT)
                     0274   182         WQHEAD  SUSPO,SUSPO     ; SUSPENDED (NON-RESIDENT)
                     0280   183         WQHEAD  MWAIT,MWAIT     ; MUTEX WAIT
                     0280   184         WQHEAD  COLPG,COLPGWQ   ; COLLIDED PAGE WAIT
                     0280   185         WQHEAD  PFW,PFWQ        ; PAGE FAULT WAIT
                     0280   186         WQHEAD  FPG,FPGWQ       ; FREE PAGE WAIT
                     028C   187
                     028C   188
                     028C   189 ;
                     028C   190 SCH$GL_CURPCB::                  ;ADDRESS OF CURRENTLY ACTIVE PCB
00000000'            028C   191         .LONG   SCH$GL_NULLPCB   ;
                     0290   192         ;
                     0290   193 SCH$GL_COMQS::                   ;COMPUTE QUEUE SUMMARY BITS
00000000             0290   194         .LONG   0                ; INITIALIZE TO ZERO
                     0294   195 SCH$GL_COMQS::                   ;NON-RESIDENT COMPUTE QUEUE SUMMARY BITS
00000000             0294   196         .LONG   0                ; INITIALIZE TO ZERO
                     0298   197
                     0298   198 ;
                     0298   199 ;       SWAPPER CONTROL CELLS
                     0298   200 ;
                     0298   201 SCH$GB_SIP::                     ; SWAP IN PROGRESS FLAG
00                   0298   202         .BYTE   0                ; 1 => SWAP IN PROGRESS
00000000             0299   203 SCH$V_SIP==0                     ; SWAP IN PROGRESS FLAG
00000002             0299   204 SCH$V_MPW==2                     ; MODIFY PAGE WRITER ACTIVE
                     0299   205 ; REST OF ABOVE BYTE RESERVED
                     0299   206
                     0299   207 SCH$GB_RESCAN::
00                   0299   208         .BYTE   0                ; FLAG BYTE FOR RELPFN TO NOTIFY
00000000             029A   209 SCH$V_REORD==0                   ; OSWPSCHED QUEUE REORDERING OCCURED
                     029A   210
                     029A   211 MMG$GB_FREWFLGS::
00                   029A   212         .BYTE   0                ; FLAGS TO ALLOW SWAPPER USE OF FREWSLE
00000002             029B   213 MMG$M_NOWAIT==2                  ; DON'T ALLOW FREWSLE TO RESOURCE WAIT
00000001             029B   214 MMG$V_NOWAIT==1                  ; ON MODIFIED LIST BACK PRESSURE
00000001             029B   215 MMG$M_NOLASTUPD==1               ; DON'T ALLOW FREWSLE TO UPDATE WSLAST
00000000             029B   216 MMG$V_NOLASTUPD==0               ; (PREVENT WSLAST/WSSIZE INTERACTIONS)
                     029B   217
                     029B   218         .ALIGN  WORD             ; PRESERVE ALIGNMENT
                     029C   219 SCH$GW_PROCCNT::                 ; CURRENT COUNT OF PROCESSES
0000                 029C   220         .WORD   0                ; CREATED WHICH REQUIRE SWAP FILE
                     029E   221 SCH$GW_PROCLIM::                 ; MAXIMUM NUMBER OF PROCESSES
0040                 029E   222         .WORD   64               ; ACTUALLY SET BY INIT
                     02A0   223         .ALIGN  LONG             ; PRESERVE ALIGNMENT
                     02A0   224 SWP$GL_SLOTCNT::                 ; COUNT OF AVAILABLE SWAP SLOTS
00000010             02A0   225         .LONG   16               ; NON-ZERO TO PERMIT CREATE OF SYSINIT
                     02A4   226                                  ; ACTUALLY SET BY SYSINIT.
                     02A4   227
                     02A4   228 ;
```

```
                02A4    229 ;       COMMON EVENT CLUSTER LIST
                02A4    230 ;
                02A4    231 SCH$GQ_CEBHD::                          ; COMMON EVENT BLOCK HEADER
                02A4    232         $HEADR                          ; GENERATE LIST HEADER
                02AC    233 SCH$GW_CEBCNT::                         ; NUMBER OF COMMON EVENT BLOCKS
          0000  02AC    234         .WORD   0                       ; INIT TO ZERO
                02AE    235 SCH$GW_DELPHDCT::                       ; COUNT OF HEADERS WITH DELETE PENDING
          0000  02AE    236         .WORD   0                       ; INIT TO ZERO
                02B0    237         .ALIGN  LONG                    ; GET TO LONGWORD BOUND
                02B0    238 SWP$GL_SHELL::                          ; SHELL PROCESS SWAP ADDRESS
      00000000  02B0    239         .LONG   0                       ; FILLED BY INITIALIZATION
                02B4    240 SWP$GL_INPCB::                          ; PCB ADDRESS OF INSWAP PROCESS
      00000000  02B4    241         .LONG   0                       ;
                02B8    242
                02B8    243 SWP$GL_ISPAGCNT::                       ; INSWAP PAGE COUNT
      00000000  02B8    244         .LONG   0                       ;
                02BC    245 SWP$GW_IBALSETX::                       ; INSWAP BALANCE SET INDEX
          0000  02BC    246         .WORD   0                       ;
                02BE    247
                02BE    248 SWP$GB_ISWPRI::                         ; INSWAP PROCESS PRIORITY
            1F  02BE    249         .BYTE   31                      ; INSWAP PROCESS PRIORITY
                02BF    250
            00  02BF    251         .BYTE   0                       ; SPARE **********
                02C0    252
                02C0    253 SWP$GL_ISWPPAGES::                      ; COUNT OF INSWAPPED PAGES
      00000000  02C0    254         .LONG   0                       ;
                02C4    255 SWP$GL_ISWPCNT::                        ; COUNT OF INSWAPS PERFORMED
      00000000  02C4    256         .LONG   0                       ;
                02C8    257 SWP$GL_OSWPCNT::                        ; COUNT OF OUTSWAPS PERFORMED
      00000000  02C8    258         .LONG   0                       ;
                02CC    259 SWP$GL_HOSWPCNT::                       ; COUNT OF HEADER OUTSWAPS
      00000000  02CC    260         .LONG   0                       ;
                02D0    261 SWP$GL_HISWPCNT::                       ; COUNT OF HEADER INSWAPS
      00000000  02D0    262         .LONG   0                       ;
                02D4    263
                02D4    264 ;
                02D4    265 ;       SCH$GL_RESMASK IS A BIT VECTOR INDEXED BY RSN$_NAME TO
                02D4    266 ;       INDICATE THE PRESENCE OF PROCESSES WAITING FOR THAT RESOURCE.
                02D4    267 ;
                02D4    268 SCH$GL_RESMASK::                        ; RESOURCE WAIT BIT VECTOR
      00000000  02D4    269         .LONG   0                       ; INITIALIZE TO ZERO, NONE WAITING
                02D8    270 ;
                02D8    271 SCH$GB_PRI::                            ;CURRENT PROCESS PRIORITY
            00  02D8    272         .BYTE   0                       ;
                02D9    273         .END
```

```
MMG$GB_FREWFLGS                 0000029A RG    02
MMG$M_NOLASTUPD               = 00000001   G
MMG$M_NOWAIT                  = 00000002   G
MMG$V_NOLASTUPD               = 00000000   G
MMG$V_NOWAIT                  = 00000001   G
MXST                          = 0000000B
SAVE.                         = 0000028C R     02
SCH$AQ_COMH                     00000008 RG    02
SCH$AQ_COMOH                    00000108 RG    02
SCH$AQ_COMOT                    0000010C RG    02
SCH$AQ_COMT                     0000000C RG    02
SCH$AQ_WQHDR                  = 000001FC RG    02
SCH$C_COLPG                   = 00000001
SCH$C_FPG                     = 0000000B
SCH$C_HIB                     = 00000007
SCH$C_HIBO                    = 00000008
SCH$C_LEF                     = 00000005
SCH$C_LEFO                    = 00000006
SCH$C_MWAIT                   = 00000002
SCH$C_PFW                     = 00000004
SCH$C_SUSP                    = 00000009
SCH$C_SUSPO                   = 0000000A
SCH$GB_PRI                      000002D8 RG    02
SCH$GB_RESCAN                   00000299 RG    02
SCH$GB_SIP                      00000298 RG    02
SCH$GL_COMQS                    00000294 RG    02
SCH$GL_COMQS                    00000290 RG    02
SCH$GL_CURPCB                   0000028C RG    02
SCH$GL_NULLPCB                  ******** X     02
SCH$GL_RESMASK                  000002D4 RG    02
SCH$GQ_CEBHD                    000002A4 RG    02
SCH$GQ_COLPGWQ                  00000208 RG    02
SCH$GQ_FPGWQ                    00000280 RG    02
SCH$GQ_HIBOWQ                   0000025C RG    02
SCH$GQ_HIBWQ                    00000250 RG    02
SCH$GQ_LEFOWQ                   00000244 RG    02
SCH$GQ_LEFWQ                    00000238 RG    02
SCH$GQ_MWAIT                    00000214 RG    02
SCH$GQ_PFWQ                     0000022C RG    02
SCH$GQ_SUSP                     00000268 RG    02
SCH$GQ_SUSPO                    00000274 RG    02
SCH$GW_CEBCNT                   000002AC RG    02
SCH$GW_DELPHDCT                 000002AE RG    02
SCH$GW_PROCCNT                  0000029C RG    02
SCH$GW_PROCLIM                  0000029E RG    02
SCH$V_MPW                     = 00000002   G
SCH$V_REORD                   = 00000000   G
SCH$V_SIP                     = 00000000   G
ST                            = 00000084
STMP                          = 00000001
SWP$GB_ISWPRI                   000002BE RG    02
SWP$GL_HISWPCNT                 000002D0 RG    02
SWP$GL_HOSWPCNT                 000002CC RG    02
SWP$GL_INPCB                    000002B4 RG    02
SWP$GL_ISPAGCNT                 000002B8 RG    02
SWP$GL_ISWPCNT                  000002C4 RG    02
SWP$GL_ISWPPAGES                000002C0 RG    02
SWP$GL_OSWPCNT                  000002C8 RG    02
SWP$GL_SHELL                    000002B0 RG    02
SWP$GL_SLOTCNT                  000002A0 RG    02
SWP$GW_IBALSETX                 000002BC RG    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
ABS	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
$$$220	000002D9 (729.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.07	00:00:01.55
Command processing	113	00:00:00.50	00:00:04.51
Pass 1	134	00:00:01.99	00:00:08.88
Symbol table sort	0	00:00:00.04	00:00:00.04
Pass 2	67	00:00:00.74	00:00:03.97
Symbol table output	8	00:00:00.07	00:00:00.47
Psect synopsis output	2	00:00:00.01	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	356	00:00:03.42	00:00:19.44

The working set limit was 1200 pages.
10022 bytes (20 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 65 non-local and 0 local symbols.
273 source lines were read in Pass 1, producing 18 object records in Pass 2.
10 pages of virtual memory were used to define 9 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[SYS.OBJ]LIB.MLB;1	1
_255DUA28:[SYSLIB]STARLET.MLB;2	3
TOTALS (all libraries)	4

73 GETS were required to define 4 macros.

There were no errors, warnings or information messages.

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

SHELL
LIS

RSE
LIS

SCBVECTOR
LIS

SDAT
LIS

SHMGSDRTN
LIS

SCSVEC
LIS

SCHED
LIS

SECAUDIT
LIS

SPTSKEL
LIS

RUFSYSVEC
LIS