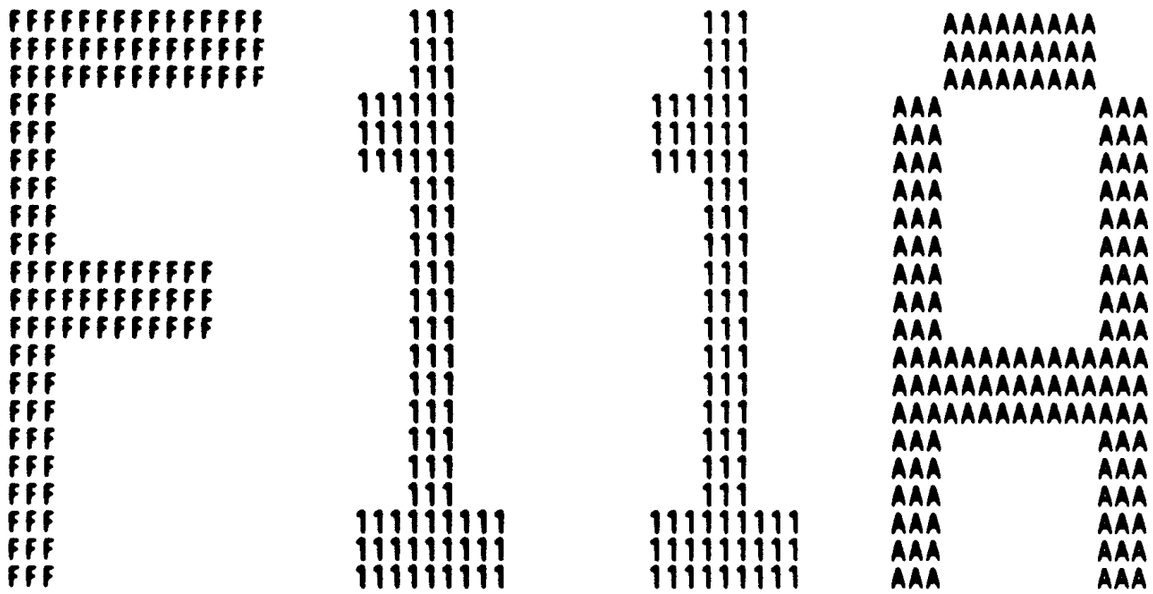
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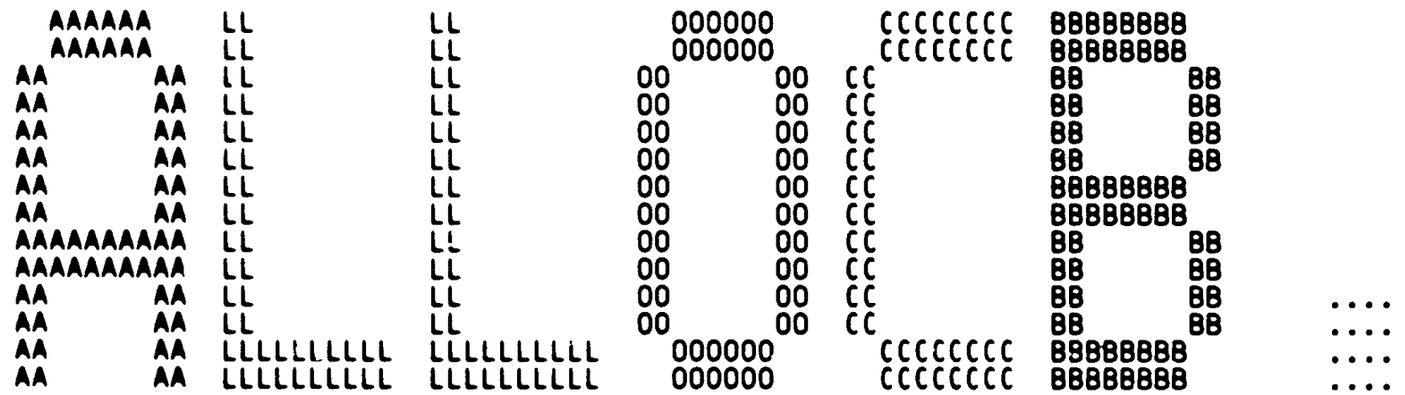
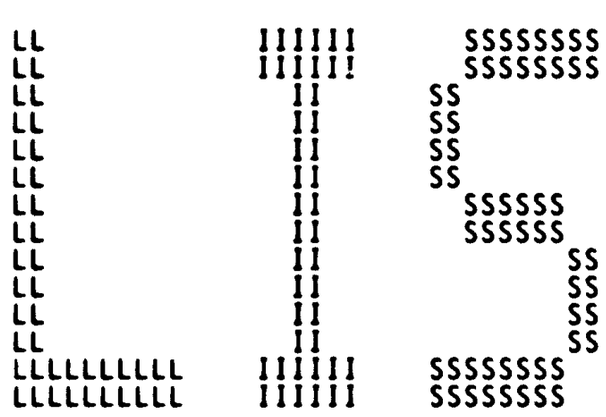

AAAAAA LL LL 000000 CCCCCCCC BBBBBBBB
AAAAAA LL LL 000000 CCCCCCCC BBBBBBBB
AA AA LL LL 00 00 CC BB BB
AA AA LL LL 00 00 CC BB BB
AA AA LL LL 00 00 CC BB BB
AA AA LL LL 00 00 CC BB BB
AA AA LL LL 00 00 CC BBBBBBBB
AA AA LL LL 00 00 CC BBBBBBBB
AAAAAAAAAA LL LL 00 00 CC BB BB
AAAAAAAAAA LL LL 00 00 CC BB BB
AA AA LL LL 00 00 CC BB BB
AA AA LL LL 00 00 CC BB BB
AA AA LLLLLLLLLL LLLLLLLLLL 000000 CCCCCCCC BBBBBBBB
AA AA LLLLLLLLLL LLLLLLLLLL 000000 CCCCCCCC BBBBBBBB


LL IIIIII SSSSSSSS
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```
0000     1          .TITLE  ALLOCB - ALLOCATE DYNAMIC MEMORY
0000     2          .IDENT  'V04-000'
0000     3
0000     4  ;
0000     5  ;*****************************************************************************
0000     6  ;*                                                                           *
0000     7  ;*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                  *
0000     8  ;*  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.                   *
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0000    17  ;*                                                                           *
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0000    19  ;*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT    *
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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:  F11ACP STRUCTURE LEVEL 1
0000    31  ;
0000    32  ; ABSTRACT:
0000    33  ;
0000    34  ;       THESE ROUTINES ALLOCATE AND DEALLOCATE SYSTEM NON-PAGED
0000    35  ;       DYNAMIC MEMORY FOR FCP CONTROL BLOCKS.
0000    36  ;
0000    37  ; ENVIRONMENT:
0000    38  ;
0000    39  ;       STARLET OPERATING SYSTEM, INCLUDING PRIVILEGED SYSTEM SERVICES
0000    40  ;       AND INTERNAL EXEC ROUTINES. NOTE THAT THIS ROUTINE MUST BE
0000    41  ;       CALLED IN KERNEL MODE.
0000    42  ;
0000    43  ;--
0000    44  ;
0000    45  ; AUTHOR:  ANDREW C. GOLDSTEIN, CREATION DATE:  14-DEC-1976  16:25
0000    46  ;
0000    47  ; MODIFIED BY:
0000    48  ;
0000    49  ;       V03-002 CDS0001         Christian D. Saether     9-Apr-1984
0000    50  ;               Reduce BYTLM as well as BYTCNT for WCBs.
0000    51  ;
0000    52  ;       V03-001 LMP0017         L. Mark Pilant,          29-Mar-1982  11:00
0000    53  ;               Put back in the quota checking.
0000    54  ;
0000    55  ;       V02-001 LMP0011         L. Mark Pilant,          23-Feb-1982  15:05
0000    56  ;               Remove the quota checking inserted in V02-001.  This is for
0000    57  ;               V3 FT2 only.
```

```
                     0000     58 ;
                     0000     59 ;       V02-001 LMP0005         L. Mark Pilant,         29-Dec-1981  13:05
                     0000     60 ;               Charge the user for any windows created.
                     0000     61 ;
                     0000     62 ;**
                     0000     63
                     0000     64 ;
                     0000     65 ; INCLUDE FILES:
                     0000     66 ;
                     0000     67 ;       INCLUDE "FCPDEF.MAR"
                     0000     68
                     0000     69 ;
                     0000     70 ; EQUATED SYMBOLS:
                     0000     71 ;
                     0000     72 ; ARG LIST OFFSETS
                     0000     73 ;
00000004             0000     74 BYTES   = 4                             ; BYTE COUNT DESIRED
00000008             0000     75 TYPE    = 8                             ; BLOCK TYPE BEING ALLOCATED
00000004             0000     76 ADDRESS = 4                             ; ADDRESS OF BLOCK BEING DEALLOCATED
                     0000     77
                     0000     78         $DYNDEF GLOBAL                  ; DEFINE STRUCTURE TYPE CODES
                     0000     79         $IPLDEF                         ; DEFINE SYSTEM IPL NAMES
                     0000     80         $IRPDEF                         ; DEFINE I/O PACKET OFFSETS
                     0000     81         $JIBDEF                         ; DEFINE JOB INFORMATION BLOCK FORMAT
                     0000     82         $PCBDEF                         ; DEFINE PROCESS CONTROL BLOCK FORMAT
                     0000     83         $PRDEF                          ; DEFINE PROCESSOR REGISTER NAMES
                     0000     84         $RSNDEF                         ; DEFINE RESOURCE NAMES
                     0000     85         $WCBDEF                         ; DEFINE WINDOW BLOCK FORMAT
                     0000     86                                         ; USED ONLY FOR TAGS TO THE BLOCK TYPE
                     0000     87                                         ; AND SIZE FIELDS
                     0000     88
                00000000     89         .PSECT  $LOCKEDC1$,NOWRT,LONG
                     0000     90 ;
                     0000     91 ; OWN STORAGE:
                     0000     92 ;
                     0000     93 BLOCK_TYPE:                             ; LIST OF SYSTEM TYPE CODES,
                07   0000     94         .BYTE   DYN$C_FCB,-             ; INDEXED BY FCP TYPE CODE
                     0001     95                 DYN$C_WCB,-
                12   0001     96                 DYN$C_VCB,-
                11   0002     97                 DYN$C_RVT,-             ; RELATIVE VOLUME TABLE CONTROL BLOCK
                0E   0003     98                 DYN$C_MVL,-             ; MAGNETIC TAPE VOLUME LIST
             03 16   0004     99                 DYN$C_AQB               ; ACP QUEUE CONTROL BLOCK
                     0006    100
                     0006    101         .ALIGN  2
```

```
                     0008   103 ;++
                     0008   104 ;
                     0008   105 ; FUNCTIONAL DESCRIPTION:
                     0008   106 ;
                     0008   107 ; THIS ROUTINE ALLOCATES THE REQUESTED BLOCK SIZE FROM SYSTEM
                     0008   108 ; NON-PAGED DYNAMIC MEMORY. THE BLOCK IS CLEARED, AND THE STANDARD
                     0008   109 ; SIZE AND TYPE DATA IS INSERTED.
                     0008   110 ;
                     0008   111 ; CALLING SEQUENCE:
                     0008   112 ;       CALL    ALLOCATE (ARG1, ARG2)
                     0008   113 ;
                     0008   114 ; INPUT PARAMETERS:
                     0008   115 ;       ARG1: NUMBER OF BYTES TO ALLOCATE
                     0008   116 ;       ARG2: TYPE OF BLOCK
                     0008   117 ;
                     0008   118 ; IMPLICIT INPUTS:
                     0008   119 ;       NONE
                     0008   120 ;
                     0008   121 ; OUTPUT PARAMETERS:
                     0008   122 ;       NONE
                     0008   123 ;
                     0008   124 ; IMPLICIT OUTPUTS:
                     0008   125 ;       NONE
                     0008   126 ;
                     0008   127 ; ROUTINE VALUE:
                     0008   128 ;       ADDRESS OF BLOCK
                     0008   129 ;
                     0008   130 ; SIDE EFFECTS:
                     0008   131 ;       BLOCK ALLOCATED
                     0008   132 ;
                     0008   133 ;--
                     0008   134
                     0008   135 ALLOCATE::
                 003C 0008   136         .WORD   ^M<R2,P3,R4,R5>         ; SAVE THE USUAL REGISTERS
      51    04 AC    D0 000A   137 10$:    MOVL    BYTES(AP),R1            ; GET SIZE ARGUMENT
         51    0F    C0 000E   138         ADDL2   #15,R1                  ; ASSUME 16 BYTE GRANULARITY
         51    0F    CA 0011   139         BICL2   #15,R1
                     0014   140         SETIPL  #IPL$_SYNCH             ; RAISE IPL TO SYNCHRONIZE
      01    08 AC    D1 0017   141         CMPL    TYPE(AP),#WCB_TYPE      ; IS THE BLOCK TO BE A WCB?
               44    12 001B   142         BNEQ    30$                     ; XFER IF NOT, NO FURTHER CHECKS NEEDED
   00000000'EF    D5 001D   143         TSTL    CONTEXT_SAVE            ; ELSE CHECK FOR SECONDARY CONTEXT
               3C    12 0023   144         BNEQ    30$                     ; XFER IF IN SECONDARY CONTEXT, NO CHARGE
50 00000000'EF    D0 0025   145         MOVL    CURRENT_WINDOW,R0       ; GET CURRENT WINDOW ADDRESS
               05    13 002C   146         BEQL    15$                     ; IF NONE, NO SHARED WINDOW POSSIBLE
            0C A0    B5 002E   147         TSTW    WCB$L_PID(R0)           ; ELSE CHECK FOR SHARED WINDOWS
               2E    13 0031   148         BEQL    30$                     ; XFER IF SHARED
50 00000000'EF    D0 0033   149 15$:    MOVL    IO_PACKET,R0            ; ELSE GET ADDRESS OF THE IRP
      50    0C A0    3C 003A   150         MOVZWL  IRP$L_PID(R0),R0        ; GET PROCESS INDEX
50 00000000'FF40    D0 003E   151         MOVL    @SCH$GL_PCBVEC[R0],R0   ; GET PCB ADDRESS
      50    0080 C0    D0 0046   152         MOVL    PCB$L_JIB(R0),R0        ; GET JIB ADDRESS
   52    20 A0    51    C3 004B   153         SUBL3   R1,JIB$L_BYTCNT(R0),R2  ; CALCULATE NEW BYTE COUNT
               07    14 0050   154         BGTR    20$                     ; XFER IF ENOUGH QUOTA
               50    D4 0052   155         CLRL    R0                      ; ELSE SET AN ERROR
                     0054   156         SETIPL  #0                      ; RESTORE IPL
               33    11 0057   157         BRB     40$                     ; GO FINISH UP
      20 A0    52    D0 0059   158 20$:    MOVL    R2,JIB$L_BYTCNT(R0)     ; SET NEW BYTE COUNT
      24 A0    51    C2 005D   159         SUBL2   R1,JIB$L_BYTLM(R0)      ; REDUCE BYTLM ALSO - THIS IS LONG-LIVED ALL
```

```
                        7E   DC  0061   160 30$:    MOVPSL  -(SP)                       ; SAVE THE PSL FOR WAIT CALL BELOW
              00000000'9F    16  0063   161         JSB     @#EXE$ALONONPAGED           ; GET BLOCK FROM EXEC
                     21 50   E9  0069   162         BLBC    R0,50$                      ; BRANCH ON FAILURE
                             006C   163         SETIPL  #0                          ; RESTORE IPL
                             006F   164                                             ; CLEAN PSL OFF STACK AND
                  6E   51    D0  006F   165         MOVL    R1,(SP)                     ; SAVE RETURNED BYTE COUNT
                       52    DD  0072   166         PUSHL   R2                          ; AND ADDRESS
      62  51  00   62   00    2C  0074   167         MOVC5   #0,(R2),#0,R1,(R2)          ; ZERO OUT THE BLOCK
                             007A   168
                  50   8E    D0  007A   169         MOVL    (SP)+,R0                    ; GET BLOCK ADDRESS
                08 A0   8E    F7  007D   170         CVTLW   (SP)+,WCB$W_SIZE(R0)        ; PUT IN SIZE WORD
                51   08 AC    D0  0081   171         MOVL    TYPE(AP),R1                 ; GET BLOCK TYPE ARG
           0A A0   FF76 CF41    90  0085   172         MOVB    BLOCK_TYPE[R1],WCB$B_TYPE(R0)
                             04   008C   173 40$:    RET                                 ; AND RETURN
                             008D   174 ;
                             008D   175 ; WE GET HERE IF MEMORY IS NOT AVAILABLE
                             008D   176 ;
                  50   03    3C  008D   177 50$:    MOVZWL  #RSN$_NPDYNMEM,R0           ; GET APPROPRIATE RESOURCE CODE
            54    00000000'9F    D0  0090   178         MOVL    @#SCH$GL_CURPCB,R4          ; AND PROCESS PCB ADDRESS
              00000000'9F    16  0097   179         JSB     @#SCH$RWAIT                 ; AND WAIT FOR POOL TO APPEAR
                     FF6A    31  009D   180         BRW     10$                         ; TRY AGAIN
```

```
                        00A0   182 ;++
                        00A0   183 ;
                        00A0   184 ; FUNCTIONAL DESCRIPTION:
                        00A0   185 ;
                        00A0   186 ;       THIS ROUTINE DEALLOCATES THE INDICATED BLOCK OF MEMORY BACK
                        00A0   187 ;       TO THE SYSTEM POOL OF NON-PAGED DYNAMIC MEMORY.
                        00A0   188 ;
                        00A0   189 ; CALLING SEQUENCE:
                        00A0   190 ;       CALL    DEALLOCATE (ARG1)
                        00A0   191 ;
                        00A0   192 ; INPUT PARAMETERS:
                        00A0   193 ;       ARG1: ADDRESS OF BLOCK BEING DEALLOCATED
                        00A0   194 ;
                        00A0   195 ; IMPLICIT INPUTS:
                        00A0   196 ;       NONE
                        00A0   197 ;
                        00A0   198 ; OUTPUT PARAMETERS:
                        00A0   199 ;       NONE
                        00A0   200 ;
                        00A0   201 ; IMPLICIT OUTPUTS:
                        00A0   202 ;       NONE
                        00A0   203 ;
                        00A0   204 ; ROUTINE VALUE:
                        00A0   205 ;       NONE
                        00A0   206 ;
                        00A0   207 ; SIDE EFFECTS:
                        00A0   208 ;       BLOCK DEALLOCATED
                        00A0   209 ;
                        00A0   210 ;--
                        00A0   211
                        00A0   212 DEALLOCATE::
                003C    00A0   213         .WORD   ^M<R2,R3,R4,R5>         ; SAVE REGISTERS
        50    04 AC       D0   00A2   214         MOVL    ADDRESS(AP),R0          ; GET ADDRESS OF BLOCK
        51    08 A0       3C   00A6   215         MOVZWL  WCB$W_SIZE(R0),R1       ; GET BLOCK SIZE
                              00AA   216         SETIPL  #IPL$_SYNCH             ; RAISE IPL TO SYNCHRONIZE
        12    0A A0       91   00AD   217         CMPB    WCB$B_TYPE(R0),#DYN$C_WCB       ; IS THE BLOCK A WCB?
                 2D       12   00B1   218         BNEQ    10$                     ; XFER IF NOT, NO FURTHER CHECKS
              0C A0       B5   00B3   219         TSTW    WCB$L_PID(R0)           ; ELSE CHECK FOR SHARED WINDOWS
                 28       13   00B6   220         BEQL    10$                     ; XFER IF NOT A SHARED WINDOW
        00000000'EF       D5   00B8   221         TSTL    CONTEXT_SAVE            ; ELSE SEE IF IN SECONDARY CONTEXT
                 20       12   00BE   222         BNEQ    10$                     ; XFER IF SO, NO CREDIT
  52    00000000'EF       D0   00C0   223         MOVL    IO_PACKET,R2            ; ELSE GET IRP ADDRESS
        52    0C A2       3C   00C7   224         MOVZWL  IRP$L_PID(R2),R2        ; GET PROCESS INDEX
52    00000000'FF42       D0   00CB   225         MOVL    @SCH$GL_PCBVEC[R2],R2   ; GET PCB ADDRESS
        52    0080 C2     D0   00D3   226         MOVL    PCB$L_JIB(R2),R2        ; GET JIB ADDRESS
        20 A2    51       C0   00D8   227         ADDL2   R1,JIB$L_BYTCNT(R2)     ; CREDIT THE USER
        24 A2    51       C0   00DC   228         ADDL2   R1,JIB$L_BYTLM(R2)      ; CREDIT BYTLM ALSO.
        00000000'9F       16   00E0   229 10$:    JSB     @#EXE$DEANONPAGED       ; AND DEALLOCATE THRU EXEC
                              00E6   230         SETIPL  #0                      ; RESTORE IPL
                 04           00E9   231         RET
                              00EA   232
                              00EA   233
                              00EA   234
                              00EA   235         .END
```

```
ADDRESS                 = 00000004
ALLOCATE                  00000008 RG     02
AQB_TYPE                = 00000005
BITMAP_TYPE             = 00000001
BLOCK_TYPE                00000000 P      02
BYTES                   = 00000004
CONTEXT_SAVE              ******** X    02
CURRENT_WINDOW            ******** X    02
DEALLOCATE                000000A0 RG     02
DIRECTORY_TYPE          = 00000002
DYN$C_ACB               = 00000002  G
DYN$C_ACL               = 0000003F  G
DYN$C_ADP               = 00000001  G
DYN$C_AQB               = 00000003  G
DYN$C_BOOTCB            = 00000006  G
DYN$C_BRDCST            = 0000001A  G
DYN$C_BUFIO             = 00000013  G
DYN$C_CDB               = 00000033  G
DYN$C_CDRP              = 00000039  G
DYN$C_CD_BBRPG          = 00000002  G
DYN$C_CD_CDDB           = 00000001  G
DYN$C_CD_SHDW_WRK       = 00000003  G
DYN$C_CEB               = 00000004  G
DYN$C_CHIP              = 00000048  G
DYN$C_CI                = 00000061  G
DYN$C_CIA               = 00000045  G
DYN$C_CIDG              = 0000003B  G
DYN$C_CIMSG             = 0000003C  G
DYN$C_CI_BDT            = 00000001  G
DYN$C_CI_FQDT           = 00000002  G
DYN$C_CLASSDRV          = 00000064  G
DYN$C_CLU               = 00000065  G
DYN$C_CLU_BTX           = 00000004  G
DYN$C_CLU_CLUB          = 00000003  G
DYN$C_CLU_CLUDCB        = 00000005  G
DYN$C_CLU_CLUOPT        = 00000006  G
DYN$C_CLU_CLUVEC        = 00000002  G
DYN$C_CLU_CSB           = 00000001  G
DYN$C_CLU_LCKDIR        = 00000007  G
DYN$C_CONF              = 00000007  G
DYN$C_CRB               = 00000005  G
DYN$C_CST               = 00000008  G
DYN$C_CXB               = 0000001B  G
DYN$C_DCCB              = 00000027  G
DYN$C_DDB               = 00000006  G
DYN$C_DPT               = 0000001E  G
DYN$C_ERP               = 0000003A  G
DYN$C_EXTGSD            = 00000028  G
DYN$C_FCB               = 00000007  G
DYN$C_FRK               = 00000008  G
DYN$C_GSD               = 00000015  G
DYN$C_IDB               = 00000009  G
DYN$C_INIT              = 00000063  G
DYN$C_IRP               = 0000000A  G
DYN$C_IRPE              = 0000002C  G
DYN$C_JIB               = 0000002F  G
DYN$C_JNL               = 00000067  G
DYN$C_JNLWCB            = 00000024  G
DYN$C_JNL_ABL           = 00000001  G
DYN$C_JNL_ACBP          = 00000004  G
DYN$C_JNL_ADL           = 00000002  G
DYN$C_JNL_BCB           = 00000003  G
DYN$C_JNL_BUF           = 00000005  G
DYN$C_JNL_BXSTS         = 00000013  G
DYN$C_JNL_CWQ           = 00000010  G
DYN$C_JNL_DB            = 00000006  G
DYN$C_JNL_DIOREAD       = 00000015  G
DYN$C_JNL_JMT           = 00000009  G
DYN$C_JNL_MSG           = 00000012  G
DYN$C_JNL_MSGDATA       = 00000014  G
DYN$C_JNL_NDL           = 00000008  G
DYN$C_JNL_RC            = 00000011  G
DYN$C_JNL_RCPC          = 0000000C  G
DYN$C_JNL_RM            = 0000000A  G
DYN$C_JNL_RRP           = 0000000B  G
DYN$C_JNL_RUL           = 0000000D  G
DYN$C_JNL_SFT           = 00000007  G
DYN$C_JNL_VCL           = 0000000E  G
DYN$C_JNL_VLE           = 0000000F  G
DYN$C_JPB               = 0000001F  G
DYN$C_KFD               = 00000043  G
DYN$C_KFE               = 00000018  G
DYN$C_KFPB              = 00000044  G
DYN$C_KFRH              = 00000026  G
DYN$C_LC_CHREML         = 00000006  G
DYN$C_LC_CLS            = 00000005  G
DYN$C_LC_FPEMUL         = 00000007  G
DYN$C_LC_MP             = 00000003  G
DYN$C_LC_MSCP           = 00000008  G
DYN$C_LC_SCS            = 00000004  G
DYN$C_LC_SYSL           = 00000009  G
DYN$C_LKB               = 00000035  G
DYN$C_LKID              = 00000037  G
DYN$C_LNM               = 00000040  G
DYN$C_LOADCODE          = 00000062  G
DYN$C_LOG               = 0000000B  G
DYN$C_LPD               = 00000034  G
DYN$C_MBX               = 0000002B  G
DYN$C_MPWMAP            = 00000004  G
DYN$C_MTL               = 00000019  G
DYN$C_MVL               = 00000016  G
DYN$C_NDB               = 0000001C  G
DYN$C_NET               = 00000017  G
DYN$C_NON_PAGED         = 00000001  G
DYN$C_ORB               = 00000049  G
DYN$C_PAGED             = 00000002  G
DYN$C_PBH               = 00000020  G
DYN$C_PCB               = 0000000C  G
DYN$C_PCBVEC            = 00000001  G
DYN$C_PDB               = 00000021  G
DYN$C_PFB               = 00000047  G
DYN$C_PFL               = 00000023  G
DYN$C_PGD               = 00000066  G
DYN$C_PGD_F11BC         = 00000001  G
```

```
DYN$C_PHVEC                     =  00000002  G
DYN$C_PIB                       =  00000022  G
DYN$C_PMB                       =  00000046  G
DYN$C_PQB                       =  0000000D  G
DYN$C_PRCMAP                    =  00000005  G
DYN$C_PTR                       =  00000025  G
DYN$C_RBM                       =  00000031  G
DYN$C_RIGHTSLIST                =  00000042  G
DYN$C_RSB                       =  00000036  G
DYN$C_RSHT                      =  00000038  G
DYN$C_RVT                       =  0000000E  G
DYN$C_SCS                       =  00000060  G
DYN$C_SCS_CDL                   =  00000001  G
DYN$C_SCS_CDT                   =  00000002  G
DYN$C_SCS_DIR                   =  00000003  G
DYN$C_SCS_HQB                   =  0000000B  G
DYN$C_SCS_PB                    =  00000004  G
DYN$C_SCS_PDT                   =  00000005  G
DYN$C_SCS_RDT                   =  00000006  G
DYN$C_SCS_SB                    =  00000007  G
DYN$C_SCS_SPNB                  =  00000009  G
DYN$C_SCS_SPPB                  =  00000008  G
DYN$C_SCS_UQB                   =  0000000A  G
DYN$C_SHB                       =  0000002A  G
DYN$C_SHMCEB                    =  0000002E  G
DYN$C_SHMGSD                    =  00000029  G
DYN$C_SHRBUFIO                  =  00000080  G
DYN$C_SLAVCEB                   =  0000002D  G
DYN$C_SPECIAL                   =  00000080  G
DYN$C_SSB                       =  0000001D  G
DYN$C_SUBTYPE                   =  00000060  G
DYN$C_SWPMAP                    =  00000003  G
DYN$C_TQE                       =  0000000F  G
DYN$C_TWP                       =  00000030  G
DYN$C_TYPAHD                    =  00000014  G
DYN$C_UCB                       =  00000010  G
DYN$C_UNUSED_2                  =  00000041  G
DYN$C_VCA                       =  00000032  G
DYN$C_VCB                       =  00000011  G
DYN$C_WCB                       =  00000012  G
DYN$C_WQE                       =  0000003E  G
DYN$C_XWB                       =  0000003D  G
EXE$ALONONPAGED                    ********    X    02
EXE$DEANONPAGED                    ********    X    02
FCB_TYPE                        =  00000000
HEADER_TYPE                     =  00000000
INDEX_TYPE                      =  00000003
IO_PACKET                          ********    X    02
IPL$_SYNCH                      =  00000008
IRP$L_PID                       =  0000000C
JIB$L_BYTCNT                    =  00000020
JIB$L_BYTLM                     =  00000024
MVL_TYPE                        =  00000004
PCB$L_JIB                       =  00000080
PR$_IPL                         =  00000012
RSN$_NPDYNMEM                   =  00000003
RVT_TYPE                        =  00000003
SCH$GL_CURPCB                      ********    X    02
SCH$GL_PCBVEC                      ********    X    02
SCH$RWAIT                          ********    X    02
TYPE                            =  00000008
VCB_TYPE                        =  00000002
WCB$B_TYPE                      =  0000000A
WCB$L_PID                       =  0000000C
WCB$W_SIZE                      =  00000008
WCB_TYPE                        =  00000001
```

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
$LOCKEDC1$	000000EA (234.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	48	00:00:00.14	00:00:01.10
Command processing	155	00:00:00.93	00:00:05.72
Pass 1	242	00:00:06.73	00:00:16.30
Symbol table sort	0	00:00:00.89	00:00:01.26
Pass 2	63	00:00:01.56	00:00:04.97
Symbol table output	21	00:00:00.17	00:00:00.58
Psect synopsis output	6	00:00:00.05	00:00:00.98
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	538	00:00:10.48	00:00:30.92

The working set limit was 1350 pages.
36359 bytes (72 pages) of virtual memory were used to buffer the intermediate code.
There were 40 pages of symbol table space allocated to hold 677 non-local and 7 local symbols.
338 source lines were read in Pass 1, producing 19 object records in Pass 2.
20 pages of virtual memory were used to define 19 macros.

Macro library statistics

Macro library name	Macros defined
_255DUA28:[SYS.OBJ]LIB.MLB;1	8
_255DUA28:[SYSLIB]STARLET.MLB;2	4
TOTALS (all libraries)	12

747 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

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

CHKSUM
LIS

ACPCNTRL
LIS

CHKPRO
LIS

FCPDEF
B32

DEACCS
LIS

BADSCN
LIS

CLENUP
LIS

CPYNAM
LIS

CHKHDR
LIS

COMMON
LIS

CREHDR
LIS

CREWIN
LIS

ACCESS
LIS

CHKDMO
LIS

DELETE
LIS

CREATE
LIS

CREFCB
LIS