```
DDDDDDDDDD      TTTTTTTTTTTTTT     SSSSSSSSSSS    DDDDDDDDDD      TTTTTTTTTTTTTT    RRRRRRRRRRR
DDDDDDDDDD      TTTTTTTTTTTTTT     SSSSSSSSSSS    DDDDDDDDDD      TTTTTTTTTTTTTT    RRRRRRRRRRR
DDDDDDDDDD      TTTTTTTTTTTTTT     SSSSSSSSSSS    DDDDDDDDDD      TTTTTTTTTTTTTT    RRRRRRRRRRR
DDD      DDD         TTT          SSS            DDD      DDD         TTT           RRR      RRR
DDD      DDD         TTT          SSS            DDD      DDD         TTT           RRR      RRR
DDD      DDD         TTT          SSS            DDD      DDD         TTT           RRR      RRR
DDD      DDD         TTT          SSS            DDD      DDD         TTT           RRR      RRR
DDD      DDD         TTT          SSS            DDD      DDD         TTT           RRR      RRR
DDD      DDD         TTT            SSSSSSSS      DDD      DDD         TTT           RRRRRRRRRRR
DDD      DDD         TTT            SSSSSSSS      DDD      DDD         TTT           RRRRRRRRRRR
DDD      DDD         TTT            SSSSSSSS      DDD      DDD         TTT           RRRRRRRRRRR
DDD      DDD         TTT                  SSS    DDD      DDD         TTT           RRR   RRR
DDD      DDD         TTT                  SSS    DDD      DDD         TTT           RRR   RRR
DDD      DDD         TTT                  SSS    DDD      DDD         TTT           RRR   RRR
DDD      DDD         TTT                  SSS    DDD      DDD         TTT           RRR      RRR
DDD      DDD         TTT                  SSS    DDD      DDD         TTT           RRR      RRR
DDDDDDDDDD          TTT            SSSSSSSSSSS    DDDDDDDDDD          TTT           RRR      RRR
DDDDDDDDDD          TTT            SSSSSSSSSSS    DDDDDDDDDD          TTT           RRR      RRR
DDDDDDDDDD          TTT            SSSSSSSSSSS    DDDDDDDDDD          TTT           RRR      RRR
```

FILEID**DTRTEST

```
DDDDDDDD   TTTTTTTTT   RRRRRRRR   TTTTTTTTT   EEEEEEEEEE   SSSSSSSS   TTTTTTTTT
DDDDDDDD   TTTTTTTTT   RRRRRRRR   TTTTTTTTT   EEEEEEEEEE   SSSSSSSS   TTTTTTTTT
DD     DD      TT      RR    RR      TT       EE             SS             TT
DD     DD      TT      RR    RR      TT       EE             SS             TT
DD     DD      TT      RR    RR      TT       EE             SS             TT
DD     DD      TT      RR    RR      TT       EE             SS             TT
DD     DD      TT      RRRRRRRR      TT       EEEEEEEE     SSSSSS           TT
DD     DD      TT      RRRRRRRR      TT       EEEEEEEE     SSSSSS           TT
DD     DD      TT      RR  RR        TT       EE                 SS         TT
DD     DD      TT      RR  RR        TT       EE                 SS         TT
DD     DD      TT      RR   RR       TT       EE                 SS         TT
DD     DD      TT      RR   RR       TT       EE                 SS         TT
DDDDDDDD       TT      RR    RR      TT       EEEEEEEEEE   SSSSSSSS          TT
DDDDDDDD       TT      RR    RR      TT       EEEEEEEEEE   SSSSSSSS          TT
```

```
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  TST$DTRTEST - DTR TEST ROUTINES
0000    2              .IDENT  'V04-000'
0000    3
0000    4
0000    5      ;********************************************************************************
0000    6      ;*                                                                              *
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0000   24      ;*                                                                              *
0000   25      ;*                                                                              *
0000   26      ;********************************************************************************
0000   27      ;
0000   28
0000   29      ;++
0000   30      ; FACILITY: DTS/DTR DECNET TEST PACKAGE
0000   31      ;
0000   32      ; ABSTRACT:
0000   33      ;       THIS MODULE IMPLEMENTS THE CONNECT, DATA, DISCONNECT,
0000   34      ;       INTERRUPT, AND MISCELLANEOUS TEST SEQUENCES FOR DTR.
0000   35      ;
0000   36      ; ENVIRONMENT: DTR RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000   37      ;
0000   38      ; AUTHOR: JAMES A. KRYCKA,        CREATION DATE: 11-AUG-77
0000   39      ;
0000   40      ; MODIFICATIONS:
0000   41      ;
0000   42      ;--
```

```
0000    44              .SBTTL  DECLARATIONS
0000    45
0000    46      ;
0000    47      ; INCLUDE FILES:
0000    48      ;
0000    49              $DTSDEF
0000    50              CMDDEF                           ; DEFINE COMMAND LANGUAGE SYMBOLS
0000    51              EFNDEF                           ; DEFINE EFN'S AND FUNCTION CODES
0000    52              $MSGDEF                          ; DEFINE MAILBOX MESSAGE ID CODES
0000    53              .IIF NE K_LIST_MEB, .LIST MEB   ; DEFINED IN DTPREFIX.MAR
0000    54      ; MACROS:
0000    55      ;
0000    56      ;
0000    57      ;       NONE
0000    58      ;
0000    59      ; EQUATED SYMBOLS:
0000    60      ;
0000    61      ;       NONE
0000    62      ;
0000    63      ; OWN STORAGE:
0000    64      ;
0000    65      ;       NONE
```

L 1

TST$DTRTEST   - DTR TEST ROUTINES   16-SEP-1984 01:27:40   VAX/VMS Macro V04-00   Page 3
V04-000   TST$CONN_DTR - CONNECT TEST   5-SEP-1984 00:22:20   [DTSDTR.SRC]DTRTEST.MAR;1   (3)

```
                              0000      67              .SBTTL  TST$CONN_DTR - CONNECT TEST
                          00000000      68              .PSECT  TST$CODE        NOWRT
                              0000      69      RT::                                            ; SYMBOL FOR DEBUGGING PURPOSES
                              0000      70
                              0000      71      ;++
                              0000      72      ; FUNCTIONAL DESCRIPTION:
                              0000      73      ;
                              0000      74      ;       NONE
                              0000      75      ;
                              0000      76      ; CALLING SEQUENCE:
                              0000      77      ;
                              0000      78      ;       BSB/JSB TST$CONN_DTR
                              0000      79      ;
                              0000      80      ; INPUT PARAMETERS:
                              0000      81      ;
                              0000      82      ;       R9      TEST SUBFUNCTION VALUE
                              0000      83      ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                              0000      84      ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                              0000      85      ;
                              0000      86      ; IMPLICIT INPUTS:
                              0000      87      ;
                              0000      88      ;       NONE
                              0000      89      ;
                              0000      90      ; OUTPUT PARAMETERS:
                              0000      91      ;
                              0000      92      ;       R0      COMPLETION CODE
                              0000      93      ;       R1      ADDRESS OF TEST ID STRING
                              0000      94      ;       R2-R11  DESTROYED
                              0000      95      ;
                              0000      96      ; IMPLICIT OUTPUTS:
                              0000      97      ;
                              0000      98      ;       NONE
                              0000      99      ;
                              0000     100      ; COMPLETION CODES:
                              0000     101      ;
                              0000     102      ;       R0      1 = SUCCESS; 0 = FAILURE
                              0000     103      ;
                              0000     104      ; SIDE EFFECTS:
                              0000     105      ;
                              0000     106      ;       NONE
                              0000     107      ;
                              0000     108      ;--
                              0000     109
                              0000     110      TST$CONN_DTR::                                  ; ENTRY POINT
              05     59   91  0000     111              CMPB    R9,#5
                     0C   1B  0003     112              BLEQU   5$
                   018A   30  0005     113              BSBW    TST$CONN_REJECT                 ; ISSUE CONNECT REJECT
   50   01F58053 8F D0  0008     114              MOVL    #DTS$_BADSUBFCN,R0                      ; GIVE REASON FOR FAILURE
                     56   11  000F     115              BRB     CONN_FAILURE
   56   59   FF 8F   9C  0011     116      5$:     ROTL    #-1,R9,R6                       ; DIVIDE CONTEST FIELD BY 2 TO
                              0016     117                                              ;   DETERMINE WHAT TYPE (IF ANY)
                              0016     118                                              ;   OF USERDATA IS TO BE RETURNED.
                              0016     119              $CASEB  SELECTOR=R6,DISPL=<-     ; RETURN:
                              0016     120                      10$-                    ;   NO USERDATA
                              0016     121                      20$-                    ;   STANDARD DATA
                              0016     122                      30$-                    ;   RECEIVED DATA
                              0016     123                      >                       ;
```

```
                6A    94   0020   124  10$:      CLRB     (R10)                          ; ZERO LENGTH OF USERDATA STRING
                09    11   0022   125            BRB      30$                            ; CONTINUE
          8A    10    90   0024   126  20$:      MOVB     #16,(R10)+                     ; STORE 16 BYTES OF THE STANDARD
                           0027   127                                                   ;   DATA PATTERN AS A COUNTED STRING
    6A    0001'CF   10    28   0027   128            MOVC3    #16,W^TST$GT_STANDARD+1,(R10) ; ''
                           002D   129
                           002D   130  ;
                           002D   131  ; RESPOND WITH CONNECT ACCEPT OR CONNECT REJECT AS APPROPRIATE.
                           002D   132  ;
                           002D   133
          52    02    D0   002D   134  30$:      MOVL     #EFN_K_CONN_REJE,R2            ; ASSUME CONNECT REJECT
                03    59   E9   0030   135            BLBC     R9,40$                         ; IS IT A REJECT REQUEST?
          52    01    D0   0033   136            MOVL     #EFN_K_CONN_ACCE,R2            ; NO, IT'S A CONNECT ACCEPT
          54    5B    D0   0036   137  40$:      MOVL     R11,R4                         ; P2 = ADDRESS OF NCB DESCRIPTOR BLOCK
                FFC4'   30   0039   138            BSBW     TST$QIOW                       ; RESPOND TO CONNECT INITIATE
                25    59   E9   003C   139            BLBC     R9,CONN_SUCCESS                ; DID WE REJECT THE CONNECTION?
                           003F   140                                                   ; NO, WAIT FOR DISCONNECT FROM DTS
          52    00    D0   003F   141            MOVL     #EFN_K_READ_MAIL,R2            ; GET FUNCTION/INDEX CODE
          54    00'8F   9A   0042   142            MOVZBL   #TST$K_MAILBUF,R4              ; GET MAILBOX BUFFER SIZE
                FFB7'   30   0046   143            BSBW     TST$QIOW                       ; READ MAILBOX
                FFB4'   30   0049   144            BSBW     TST$EXAM_MAIL                  ; PARSE MAILBOX MESSAGE
          33    56    B1   004C   145            CMPW     R6,#MSG$_DISCON                ; WAS IT A SYNCHRONOUS DISCONNECT?
                13    13   004F   146            BEQLU    CONN_SUCCESS                   ; YES, THAT'S OK
          30    56    B1   0051   147            CMPW     R6,#MSG$_ABORT                 ; WAS IT A DISCONNECT ABORT?
                0E    13   0054   148            BEQLU    CONN_SUCCESS                   ; YES, THAT'S OK TOO
    50    01F5803B 8F   D0   0056   149            MOVL     #DTS$_BADMAIL,R0              ; NOTE INVALID MAIL
    0000'CF   56    3C   005D   150            MOVZWL   R6,W^TST$GL_FAOARG             ; NOTE TYPE OF MAIL
                03    11   0062   151            BRB      CONN_FAILURE
                           0064   152  CONN_SUCCESS:                                    ; TEST WAS SUCCESSFUL
          50    01    D0   0064   153            MOVL     #1,R0                          ; SET COMPLETION CODE TO SUCCESS
                           0067   154  CONN_FAILURE:                                    ; ENTER HERE IF TEST FAILED
    51    0000'CF   9E   0067   155            MOVAB    W^TST$GT_CONN,R1               ; RETURN ADDRESS OF TEST ID STRING
                05    006C   156            RSB                                      ; YES, EXIT
```

```
                            006D         158                .SBTTL  TST$DATA_DTR - DATA TEST
                    000C006D         159                .PSECT  TST$CODE          NOWRT
                            006D         160
                            006D         161  ;++
                            006D         162  ; FUNCTIONAL DESCRIPTION:
                            006D         163  ;
                            006D         164  ;     NONE
                            006D         165  ;
                            006D         166  ; CALLING SEQUENCE:
                            006D         167  ;
                            006D         168  ;     BSB/JSB TST$DATA_DTR
                            006D         169  ;
                            006D         170  ; INPUT PARAMETERS:
                            006D         171  ;
                            006D         172  ;     R9      TEST SUBFUNCTION VALUE
                            006D         173  ;     R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                            006D         174  ;     R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                            006D         175  ;
                            006D         176  ; IMPLICIT INPUTS:
                            006D         177  ;
                            006D         178  ;     NONE
                            006D         179  ;
                            006D         180  ; OUTPUT PARAMETERS:
                            006D         181  ;
                            006D         182  ;     R0      COMPLETION CODE
                            006D         183  ;     R1      ADDRESS OF TEST ID STRING
                            006D         184  ;     R2-R11  DESTROYED
                            006D         185  ;
                            006D         186  ; IMPLICIT OUTPUTS:
                            006D         187  ;
                            006D         188  ;     NONE
                            006D         189  ;
                            006D         190  ; COMPLETION CODES:
                            006D         191  ;
                            006D         192  ;     R0      1 = SUCCESS; 0 = FAILURE
                            006D         193  ;
                            006D         194  ; SIDE EFFECTS:
                            006D         195  ;
                            006D         196  ;     NONE
                            006D         197  ;
                            006D         198  ;--
                            006D         199
                            006D         200  TST$DATA_DTR::                             ; ENTRY POINT
          03    59    91   006D         201           CMPB    R9,#VAL_K_TYPE_ECHO      ;
                0C    1B   0070         202           BLEQU   10$                      ;
                011D  30   0072         203           BSBW    TST$CONN_REJECT          ; ISSUE CONNECT REJECT
  50  01F58053 8F    D0   0075         204           MOVL    #DTS$_BADSUBFCN,R0                 ; GIVE REASON FOR FAILURE
                6B    11   007C         205           BRB     55$
        50  03 AA    9E   007E         206  10$:      MOVAB   3(R10),R0                ; SAVE REMAINING FIELDS IN MESSAGE
            02  60    91   0082         207           CMPB    (R0),#VAL_K_FLOW_MESS    ;
                0C    13   0085         208           BEQL    20$                      ;
                0108  30   0087         209           BSBW    TST$CONN_REJECT          ; ISSUE CONNECT REJECT
  50  01F58063 8F    D0   008A         210           MOVL    #DTS$_INVOPTION,R0                 ; GIVE REASON FOR FAILURE
                56    11   0091         211           BRB     55$
        0000'CF 80   90   0093         212  20$:      MOVB    (R0)+,W^TST$GB_FLOW      ; STORE FCOPT VALUE
            01  60    91   0098         213           CMPB    (R0),#1                  ;
                0C    13   009B         214           BEQL    30$                      ;
```

B 2

TST$DTRTEST   - DTR TEST ROUTINES   16-SEP-1984 01:27:40   VAX/VMS Macro V04-00   Page   6
V04-000   TST$DATA_DTR - DATA TEST   5-SEP-1984 00:22:20   [DTSDTR.SRC]DTRTEST.MAR;1   (4)

```
                   00F2    30  009D   215           BSBW    TST$CONN_REJECT           ; ISSUE CONNECT REJECT
         50    01F58063 8F  D0  00A0   216           MOVL    #DTS$_INVOPTION,R0                 ; GIVE REASON FOR FAILURE
                     40  11  00A7   217           BRB     55$                       ;
              0000'CF 80  90  00A9   218  30$:      MOVB    (R0)+,W^TST$GB_RQUEUE     ; STORE FCVAL VALUE
                     60  95  00AE   219           TSTB    (R0)                      ;
                     0C  13  00B0   220           BEQL    40$                       ;
                   00DD    30  00B2   221           BSBW    TST$CONN_REJECT           ; ISSUE CONNECT REJECT
         50    01F58063 8F  D0  00B5   222           MOVL    #DTS$_INVOPTION,R0                 ; GIVE REASON FOR FAILURE
                     2B  11  00BC   223           BRB     55$                       ;
              0000'CF 80  90  00BE   224  40$:      MOVB    (R0)+,W^TST$GB_NAK        ; STORE NAK VALUE
                     60  95  00C3   225           TSTB    (R0)                      ;
                     0C  13  00C5   226           BEQL    50$                       ;
                   00C8    30  00C7   227           BSBW    TST$CONN_REJECT           ; ISSUE CONNECT REJECT
         50    01F58063 8F  D0  00CA   228           MOVL    #DTS$_INVOPTION,R0                 ; GIVE REASON FOR FAILURE
                     16  11  00D1   229           BRB     55$                       ;
              0000'CF 80  90  00D3   230  50$:      MOVB    (R0)+,W^TST$GB_BACK       ; STORE BPVAL VALUE
              1000 8F  60  B1  00D8   231           CMPW    (R0),#MAX_K_SIZE_DA       ;
                     0D  15  00DD   232           BLEQ    60$                       ;
                   00B0    30  00DF   233           BSBW    TST$CONN_REJECT           ; ISSUE CONNECT REJECT
         50    01F58063 8F  D0  00E2   234           MOVL    #DTS$_INVOPTION,R0                 ; GIVE REASON FOR FAILURE
                   009B    31  00E9   235  55$:      BRW     DATA_FAILURE              ;
              0000'CF 80  B0  00EC   236  60$:      MOVW    (R0)+,W^TST$GW_SIZE       ; STORE MSGLEN VALUE
                             00F1   237
                             00F1   238  ;
                             00F1   239  ; RESPOND TO CONNECT INITIATE WITH A CONNECT ACCEPT WITHOUT USERDATA.
                             00F1   240  ;
                             00F1   241
                   0099    30  00F1   242           BSBW    TST$CONN_ACCEPT           ;
                             00F4   243
                             00F4   244  ;
                             00F4   245  ; DATA TEST INITIALIZATION
                             00F4   246  ;
                             00F4   247
              0000'CF  7C  00F4   248           CLRQ    W^TST$GL_XMITDATA         ; ZERO TRANSMIT AND RECEIVE
                             00F8   249                                             ; MESSAGE COUNTERS
              0000'CF  7C  00F8   250           CLRQ    W^TST$GL_XMITINTE         ; ZERO TRANSMIT AND RECEIVE
                             00FC   251                                             ; INTERRUPT MESSAGE COUNTERS
              0000'CF  01  D0  00FC   252           MOVL    #1,W^TST$GL_STATUS        ; SET AST STATUS CODE TO SUCCESS
              0000'CF  94  0101   253           CLRB    W^TST$GB_ASTFLAGS         ;NOTE TIMER RUNNING
  00000000'EF 00000000'EF  DE  0105   254           MOVAL   TST$QB_QHEAD,TST$QB_QHEAD ;INIT QUEUE HEAD
  00000004'EF 00000000'EF  DE  0110   255           MOVAL   TST$QB_QHEAD,TST$QB_QHEAD+4
                             011B   256  ;
                             011B   257  ; PUT REPETITIONS OF THE STANDARD DATA PATTERN IN THE MESSAGE BUFFER
                             011B   258  ; BEGINNING AT BUFFER+4.
                             011B   259  ;
                             011B   260
         53    0000'CF  9E  011B   261           MOVAB   W^TST$GB_XMITBUF,R3       ; GET ADDRESS OF MESSAGE
                     83  D4  0120   262           CLRL    (R3)+                     ; INITIALIZE MESSAGE SEQUENCE NUMBER
         54    0000'CF  3C  0122   263           MOVZWL  W^TST$GW_SIZE,R4          ; GET MESSAGE SIZE
                 54  04  B1  0127   264           CMPW    #4,R4                     ;ANY DATA IN MSG?
                     06  18  012A   265           BGEQ    70$                       ;NO, SO WHY FILLBUFFER
                 54  04  C2  012C   266           SUBL2   #4,R4                     ; REDUCE SIZE ACCORDINGLY
                   FECE'    30  012F   267           BSBW    TST$STANDARD              ; PUT STD DATA PATTERN IN BUFFER
                             0132   268
                             0132   269  70$:
                             0132   270  ;
                             0132   271  ; RECEIVE [AND TRANSMIT] DATA MESSAGES UNTIL DTS DISCONNECTS THE LINK
```

C 2

```
                            0132    272 ;
                            0132    273
         52   07   D0       0132    274        MOVL      #EFN_K_RECV_DATA,R2      ; GET FUNCTION/INDEX CODE
      54  0000'CF   3C      0135    275        MOVZWL    W^TST$GW_SIZE,R4         ; GET MESSAGE SIZE
      55  0000'CF   9E      013A    276        MOVAB     W^TST$RECVAST_DTR,R5     ; GET ADDRESS OF AST ROUTINE
          FEBE'     30      013F    277        BSBW      TST$QIOAST               ; START UP RECEIVE MESSAGE STREAM
         52   00   D0       0142    278        MOVL      #EFN_K_READ_MAIL,R2      ; GET FUNCTION/INDEX CODE
      54  00'8F   9A        0145    279        MOVZBL    #TST$K_MAILBUF,R4        ; GET MAILBOX BUFFER SIZE
      55  0000'CF   9E      0149    280        MOVAB     W^TST$MAILAST_DTR,R5     ; GET ADDRESS OF AST ROUTINE
          FEAF'     30      014E    281        BSBW      TST$QIOAST               ; START UP READ MAILBOX STREAM
                            0151    282
                            0151    283 ;
                            0151    284 ; WAIT FOR LINK DISCONNECT
                            0151    285 ;
                            0151    286
         07   11            0151    287        BRB       110$                     ;CHECK FOR ASTS
                            0153    288 100$:
                            0153    289        $HIBER_S                           ;GO TO SLEEP TILL AN AST
                            015A    290 110$:
      23 0000'CF   E8       015A    291        BLBS      W^TST$GB_ASTFLAGS,120$   ;JUMP IF TIMER EXPIRED
  50  00000000'FF   0F      015F    292        REMQUE    @TST$QB_QHEAD,R0         ;DEQUEUE AN AST
          EB       1D       0166    293        BVS       100$                     ;NOTHING THERE ,SLEEP
      52  0000'C0   D0      0168    294        MOVL      TST$QB_CODE(R0),R2       ;QIO FUNCTION/CODE
      54  0000'C0   D0      016D    295        MOVL      TST$QB_BUFLEN(R0),R4     ;SIZE FOR DATA MSG
      55  0000'C0   D0      0172    296        MOVL      TST$QB_ASTADR(R0),R5     ;AST ADDRESS FOR QIO
          FE86'     30      0177    297        BSBW      TST$QIOAST               ;DO QIO WITH AST
                            017A    298        CHECK_SS                           ;MAKE SERVICE OKAY
         DA 51    E8        017D    299        BLBS      R1,110$                  ;IF OKAY BR
          05       11       0180    300        BRB       DATA_FAILURE             ;LINK ABORTED
                            0182    301 120$:
                            0182    302
                            0182    303 ;
                            0182    304 ; DATA TEST IS FINISHED
                            0182    305 ;
                            0182    306
  50  0000'CF   D0          0182    307        MOVL      W^TST$GL_STATUS,R0       ; POST STATUS
                            0187    308 DATA_FAILURE:                            ; ENTER HERE IF TEST FAILED
  51  0000'CF   9E          0187    309        MOVAB     W^TST$GT_DATA,R1         ; RETURN ADDRESS OF TEST ID STRING
          05                018C    310        RSB                                ; EXIT
                            018D    311
                            018D    312 ;
                            018D    313 ; SUBROUTINE TO ISSUE A CONNECT ACCEPT WITHOUT USERDATA.
                            018D    314 ;
                            018D    315
                            018D    316 TST$CONN_ACCEPT::                        ; CONTROL POINT
         52   01   D0       018D    317        MOVL      #EFN_K_CONN_ACCE,R2      ; GET FUNCTION/INDEX CODE
         03   11            0190    318        BRB       ACCEPT_REJECT            ; JOIN COMMON CODE
                            0192    319
                            0192    320 ;
                            0192    321 ; SUBROUTINE TO ISSUE A CONNECT REJECT WITHOUT USERDATA.
                            0192    322 ;
                            0192    323
                            0192    324 TST$CONN_REJECT::                        ; CONTROL POINT
         52   02   D0       0192    325        MOVL      #EFN_K_CONN_REJE,R2      ; GET FUNCTION/INDEX CODE
                            0195    326 ACCEPT_REJECT:                           ; CONTROL POINT
                            0195    327
                            0195    328 ;
```

TST$DTRTEST   - DTR TEST ROUTINES   16-SEP-1984 01:27:40   VAX/VMS Macro V04-00   Page   8
V04-000   TST$DATA_DTR - DATA TEST   5-SEP-1984 00:22:20   [DTSDTR.SRC]DTRTEST.MAR;1   (4)

                                                    D 2

```
                              0195   329 ; AN ALTERNATE TO THE FOLLOWING TWO INSTRUCTIONS IS:
                              0195   330 ;
                              0195   331 ;      CLRB    (R10)
                              0195   332 ;
                              0195   333 ; THE LONGER SEQUENCE BELOW IS USED TO CHECKOUT NETACP'S HANDLING
                              0195   334 ; OF NO USERDATA STRING PRESENT.
                              0195   335 ;
                              0195   336 ;
              8A   22   90    0195   337        MOVB    #^A\'"\,(R10)+          ; TERMINATE NCB STRING BEFORE
                              0198   338                                       ;  COUNTED USERDATA STRING
        6B  5A  04 AB   C3    0198   339        SUBL3   4(R11),R10,(R11)        ; REDUCE SIZE IN NCB DESCRIPTOR
                54   5B  D0   019D   340        MOVL    R11,R4                  ; P2 = ADDRESS OF NCB DESCRIPTOR BLOCK
                   FE5D'  30  01A0   341        BSBW    TST$QIOW                ; ISSUE THE CONNECT REJECT
                        05    01A3   342        RSB                            ; EXIT
```

E 2

TST$DTRTEST   - DTR TEST ROUTINES   16-SEP-1984 01:27:40 VAX/VMS Macro V04-00   Page 9
V04-000   TST$DISC_DTR - DISCONNECT TEST   5-SEP-1984 00:22:20 [DTSDTR.SRC]DTRTEST.MAR;1   (5)

```
                        01A4    344                     .SBTTL  TST$DISC_DTR - DISCONNECT TEST
                    000001A4    345                     .PSECT  TST$CODE          NOWRT
                        01A4    346
                        01A4    347          ;++
                        01A4    348          ; FUNCTIONAL DESCRIPTION:
                        01A4    349          ;
                        01A4    350          ;       NONE
                        01A4    351          ;
                        01A4    352          ; CALLING SEQUENCE:
                        01A4    353          ;
                        01A4    354          ;       BSB/JSB TST$DISC_DTR
                        01A4    355          ;
                        01A4    356          ; INPUT PARAMETERS:
                        01A4    357          ;
                        01A4    358          ;       R9      TEST SUBFUNCTION VALUE
                        01A4    359          ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                        01A4    360          ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                        01A4    361          ;
                        01A4    362          ; IMPLICIT INPUTS:
                        01A4    363          ;
                        01A4    364          ;       NONE
                        01A4    365          ;
                        01A4    366          ; OUTPUT PARAMETERS:
                        01A4    367          ;
                        01A4    368          ;       R0      COMPLETION CODE
                        01A4    369          ;       R1      ADDRESS OF TEST ID STRING
                        01A4    370          ;       R2-R11  DESTROYED
                        01A4    371          ;
                        01A4    372          ; IMPLICIT OUTPUTS:
                        01A4    373          ;
                        01A4    374          ;       NONE
                        01A4    375          ;
                        01A4    376          ; COMPLETION CODES:
                        01A4    377          ;
                        01A4    378          ;       R0      1 = SUCCESS; 0 = FAILURE
                        01A4    379          ;
                        01A4    380          ; SIDE EFFECTS:
                        01A4    381          ;
                        01A4    382          ;       NONE
                        01A4    383          ;
                        01A4    384          ;--
                        01A4    385
                        01A4    386          TST$DISC_DTR::                              ; ENTRY POINT
           05   59  91  01A4    387                  CMPB    R9,#5                       ;
                0C   1B  01A7    388                  BLEQU   5$                          ;
              FFE6   30  01A9    389                  BSBW    TST$CONN_REJECT             ; ISSUE CONNECT REJECT
  50   01F58053 8F  D0  01AC    390                  MOVL    #DTS$_BADSUBFCN,R0          ; GIVE REASON FOR FAILURE
                4B   11  01B3    391                  BRB     DISC_FAILURE                ;
                        01B5    392
                        01B5    393          ;
                        01B5    394          ; RESPOND TO CONNECT INITIATE WITH A CONNECT ACCEPT WITHOUT USERDATA.
                        01B5    395          ;
                        01B5    396
       57   6A   90  01B5    397          5$:          MOVB    (R10),R7                    ; SAVE USERDATA STRING COUNT
              FFD2   30  01B8    398                  BSBW    TST$CONN_ACCEPT             ;
                5A   D7  01BB    399                  DECL    R10                         ; RESTORE POINTER
       6A   57   90  01BD    400                  MOVB    R7,(R10)                    ; RESTORE USERDATA STRING COUNT
```

F 2

```
                                01C0   401
                                01C0   402   ;
                                01C0   403   ; CONTINUE SET-UP FOR DISCONNECT OF LINK JUST ESTABLISHED.
                                01C0   404   ;
                                01C0   405
      54   0000'CF     7E       01C0   406           MOVAQ    W^TST$GQ_DEACCESS,R4      ; P2 = ADDR OF USERDATA DESC BLOCK
   56   59   FF 8F     9C       01C5   407           ROTL     #-1,R9,R6                ; DIVIDE DISTEST FIELD BY 2 TO
                                01CA   408                                             ; DETERMINE WHAT TYPE (IF ANY)
                                01CA   409                                             ; OF USERDATA IS TO BE RETURNED.
                                01CA   410           $CASEB   SELECTOR=R6,DISPL=<-     ; RETURN:
                                01CA   411                    10$-                     ;  NO USERDATA
                                01CA   412                    20$-                     ;  STANDARD DATA
                                01CA   413                    30$-                     ;  RECEIVED DATA
                                01CA   414                    >
               54   D4          01D4   415   10$:    CLRL     R4                       ; P2 = 0; SPECIFY NO USERDATA
               19   11          01D6   416           BRB      40$                      ; CONTINUE
         64    11   D0          01D8   417   20$:    MOVL     #<1+16>,(R4)             ; SPECIFY SIZE OF USERDATA
                                01DB   418                                             ;  COUNTED STRING
   0000'CF     10   90          01DB   419           MOVB     #16,W^TST$GT_STANDARD    ; MODIFY COUNT
04 A4   0000'CF     9E          01E0   420           MOVAB    W^TST$GT_STANDARD,4(R4)  ; SPECIFY ADDRESS OF COUNTED STRING
               09   11          01E6   421           BRB      40$                      ; CONTINUE
         64    6A   9A          01E8   422   30$:    MOVZBL   (R10),(R4)               ; SPECIFY SIZE OF RECEIVED DATA
               64   D6          01EB   423           INCL     (R4)                     ;  COUNTED STRING
04 A4   5A   D0                 01ED   424           MOVL     R10,4(R4)                ; SPECIFY ADDRESS OF COUNTED STRING
                                01F1   425
                                01F1   426   ;
                                01F1   427   ; DETERMINE WHETHER TO RESPOND WITH A SYNCHRONOUS DISCONNECT OR A
                                01F1   428   ; DISCONNECT ABORT.
                                01F1   429   ;
                                01F1   430
      52   03   D0              01F1   431   40$:    MOVL     #EFN_K_DISC_SYNC,R2      ; ASSUME SYNCHRONOUS DISCONNECT
         03   59   E9           01F4   432           BLBC     R9,50$                   ; IS IT A SYNC DISCONNECT REQUEST?
      52   04   D0              01F7   433           MOVL     #EFN_K_DISC_ABRT,R2      ; NO IT'S A DISCONNECT ABORT
         FE03'   30             01FA   434   50$:    BSBW     TST$QIOW                 ; DISCONNECT THE LINK
                                01FD   435   DISC_SUCCESS:                             ; TEST WAS SUCCESSFUL
         50   01   D0           01FD   436           MOVL     #1,R0                    ; SET COMPLETION CODE TO SUCCESS
                                0200   437   DISC_FAILURE:                             ; ENTER HERE IF TEST FAILED
   51   0000'CF     9E          0200   438           MOVAB    W^TST$GT_DISC,R1         ; RETURN ADDRESS OF TEST ID STRING
               05               0205   439           RSB                              ; EXIT
```

G 2

```
                          0206      441                    .SBTTL  TST$INTE_DTR - INTERRUPT TEST
                      00000206      442                    .PSECT  TST$CODE            NOWRT
                          0206      443
                          0206      444         ;++
                          0206      445         ; FUNCTIONAL DESCRIPTION:
                          0206      446         ;
                          0206      447         ;       NONE
                          0206      448         ;
                          0206      449         ; CALLING SEQUENCE:
                          0206      450         ;
                          0206      451         ;       BSB/JSB TST$INTE_DTR
                          0206      452         ;
                          0206      453         ; INPUT PARAMETERS:
                          0206      454         ;
                          0206      455         ;       R9      TEST SUBFUNCTION VALUE
                          0206      456         ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                          0206      457         ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                          0206      458         ;
                          0206      459         ; IMPLICIT INPUTS:
                          0206      460         ;
                          0206      461         ;       NONE
                          0206      462         ;
                          0206      463         ; OUTPUT PARAMETERS:
                          0206      464         ;
                          0206      465         ;       R0      COMPLETION CODE
                          0206      466         ;       R1      ADDRESS OF TEST ID STRING
                          0206      467         ;       R2-R11  DESTROYED
                          0206      468         ;
                          0206      469         ; IMPLICIT OUTPUTS:
                          0206      470         ;
                          0206      471         ;       NONE
                          0206      472         ;
                          0206      473         ; COMPLETION CODES:
                          0206      474         ;
                          0206      475         ;       R0      1 = SUCCESS; 0 = FAILURE
                          0206      476         ;
                          0206      477         ; SIDE EFFECTS:
                          0206      478         ;
                          0206      479         ;       NONE
                          0206      480         ;
                          0206      481         ;--
                          0206      482
                          0206      483 TST$INTE_DTR::                                  ; ENTRY POINT
         03    59     91  0206      484                    CMPB    R9,#VAL_K_TYPE_ECHO     ;
                0C     1B  0209      485                    BLEQU   10$                     ;
                FF84   30  020B      486                    BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
50  01F58053 8F D0  020E      487                    MOVL    #DTS$_BADSUBFCN,R0                  ; GIVE REASON FOR FAILURE
                10     11  0215      488                    BRB     15$                     ;INTERRUPT FAILURE
         01  03 AA   91  0217      489 10$:               CMPB    3(R10),#1               ;
                0D     13  021B      490                    BEQL    20$                     ;
                FF72   30  021D      491                    BSBW    TST$CONN_REJECT         ; ISSUE CONNECT REJECT
50  01F58063 8F D0  0220      492                    MOVL    #DTS$_INVOPTION,R0                  ; GIVE REASON FOR FAILURE
              0091   31  0227      493 15$:               BRW     INTE_FAILURE
   0000'CF   03 AA   90  022A      494 20$:               MOVB    3(R10),W^TST$GB_RQUEUE  ; STORE FCVAL VALUE
                10     B0  0230      495                    MOVW    #MAX_K_SIZE_IN,=        ; STORE INTERRUPT MESSAGE SIZE
           0000'CF        0232      496                            W^TST$GW_SIZE          ; SINCE THE TEST REQUEST DOES NOT
                          0235      497                                                    ;  SPECIFY A SIZE, MAKE IT THE
```

```
                                          0235       498                                                    ; MAXIMUM SIZE
                                          0235       499
                                          0235       500 ;
                                          0235       501 ; RESPOND TO CONNECT INITIATE WITH A CONNECT ACCEPT WITHOUT USERDATA.
                                          0235       502 ;
                                          0235       503
                              FF55   30   0235       504         BSBW    TST$CONN_ACCEPT           ;
                                          0238       505
                                          0238       506 ;
                                          0238       507 ; INTERRUPT TEST INITIALIZATION
                                          0238       508 ;
                                          0238       509
                     0000'CF   7C   0238       510         CLRQ    W^TST$GL_XMITDATA         ; ZERO TRANSMIT AND RECEIVE
                                          023C       511                                                    ;    MESSAGE COUNTERS
                     0000'CF   7C   023C       512         CLRQ    W^TST$GL_XMITINTE         ; ZERO TRANSMIT AND RECEIVE
              0000'CF   01   D0   0240       513         MOVL    #1,W^TST$GL_STATUS        ; SET AST STATUS CODE TO SUCCESS
                                          0245       514                                                    ;    INTERRUPT MESSAGE COUNTERS
                     0000'CF   94   0245       515         CLRB    W^TST$GB_ASTFLAGS        ;NOTE TIMER RUNNING
     00000000'EF  00000000'EF   DE   0249       516         MOVAL   TST$QB_QHEAD,TST$QB_QHEAD;INIT QUEUE HEAD
     00000004'EF  00000000'EF   DE   0254       517         MOVAL   TST$QB_QHEAD,TST$QB_QHEAD+4
                                          025F       518 ;
                                          025F       519 ; PUT REPETITIONS OF THE STANDARD DATA PATTERN IN THE INTERRUPT MESSAGE BUFFER
                                          025F       520 ; BEGINNING AT BUFFER+4.
                                          025F       521 ;
                                          025F       522
         53   0000'CF   9E   025F       523         MOVAB   W^TST$GB_INTEBUF,R3       ; GET ADDRESS OF MESSAGE
                     83   D4   0264       524         CLRL    (R3)+                    ; INITIALIZE MESSAGE SEQUENCE NUMBER
         54   0000'CF   3C   0266       525         MOVZWL  W^TST$GW_SIZE,R4         ; GET MESSAGE SIZE
              54   04   B1   026B       526         CMPW    #4,R4                    ;ANY DATA IN MSG?
                   06   18   026E       527         BGEQ    30$                      ;NOPE DONT FILL BUFFER
              54   04   C2   0270       528         SUBL2   #4,R4                    ; REDUCE SIZE ACCORDINGLY
                 FD8A'   30   0273       529         BSBW    TST$STANDARD             ; PUT STD DATA PATTERN IN BUFFER
                                          0276       530
                                          0276       531 30$:
                                          0276       532 ;
                                          0276       533 ; RECEIVE [AND TRANSMIT] INTERRUPT MESSAGES UNTIL DTS DISCONNECTS THE LINK
                                          0276       534 ;
                                          0276       535
              52   00   D0   0276       536         MOVL    #EFN_K_READ_MAIL,R2      ; GET FUNCTION/INDEX CODE
        54   00'8F   9A   0279       537         MOVZBL  #TST$K_MAILBUF,R4        ; GET MAILBOX BUFFER SIZE
        55   0000'CF   9E   027D       538         MOVAB   W^TST$MAILAST_DTR,R5     ; GET ADDRESS OF AST ROUTINE
                 FD7B'   30   0282       539         BSBW    TST$QIOAST               ; START UP READ MAILBOX STREAM
                                          0285       540
                                          0285       541 ;
                                          0285       542 ; WAIT FOR LINK DISCONNECT
                                          0285       543 ;
                                          0285       544
                   07   11   0285       545         BRB     110$                     ;CHECK FOR ASTS
                                          0287       546 100$:
                                          0287       547         $HIBER_S                 ;GO TO SLEEP TILL AN AST
                                          028E       548 110$:
     50   23 0000'CF   E8   028E       549         BLBS    W^TST$GB_ASTFLAGS,120$   ;JUMP IF TIMER EXPIRED
          00000000'FF   0F   0293       550         REMQUE  @TST$QB_QHEAD,R0         ;DEQUEUE AN AST
                   EB   1D   029A       551         BVS     100$                     ;NOTHING THERE ,SLEEP
        52   0000'C0   D0   029C       552         MOVL    TST$QB_CODE(R0),R2        ;QIO FUNCTION/CODE
        54   0000'C0   D0   02A1       553         MOVL    TST$QB_BUFLEN(R0),R4      ;SIZE FOR DATA MSG
        55   0000'C0   D0   02A6       554         MOVL    TST$QB_ASTADR(R0),R5     ;AST ADDRESS FOR QIO
```

```
        FD52'  30  02AB   555              BSBW    TST$QIOAST              ;DO QIO WITH AST
                   02AE   556              CHECK_SS                       ;MAKE SERVICE OKAY
        07 51  E9  02B1   557              BLBC    R1,INTE_FAILURE        ;LINK ABORTED
           D8  11  02B4   558              BRB     110$                   ;DEQUEUE ANOTHER
                   02B6   559  120$:
                   02B6   560
                   02B6   561  ;
                   02B6   562  ; INTERRUPT TEST IS FINISHED
                   02B6   563  ;
                   02B6   564
  50   0000'CF  D0  02B6   565              MOVL    W^TST$GL_STATUS,R0     ; POST STATUS
                   02BB   566  INTE_FAILURE:                              ; ENTER HERE IF TEST FAILED
  51   0000'CF  9E  02BB   567              MOVAB   W^TST$GT_INTE,R1      ; RETURN ADDRESS OF TEST ID STRING
           05  02C0   568              RSB                             ; EXIT
```

```
                         02C1    570                .SBTTL  TST$MISC_DTR - MISCELLANEOUS TEST
                   000002C1    571                .PSECT  TST$CODE-        NOWRT
                         02C1    572
                         02C1    573   ;++
                         02C1    574   ; FUNCTIONAL DESCRIPTION:
                         02C1    575   ;
                         02C1    576   ;       NONE
                         02C1    577   ;
                         02C1    578   ; CALLING SEQUENCE:
                         02C1    579   ;
                         02C1    580   ;       BSB/JSB TST$MISC_DTR
                         02C1    581   ;
                         02C1    582   ; INPUT PARAMETERS:
                         02C1    583   ;
                         02C1    584   ;       R9      TEST SUBFUNCTION VALUE
                         02C1    585   ;       R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                         02C1    586   ;       R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                         02C1    587   ;
                         02C1    588   ; IMPLICIT INPUTS:
                         02C1    589   ;
                         02C1    590   ;       NONE
                         02C1    591   ;
                         02C1    592   ; OUTPUT PARAMETERS:
                         02C1    593   ;
                         02C1    594   ;       R0      COMPLETION CODE
                         02C1    595   ;       R1      ADDRESS OF TEST ID STRING
                         02C1    596   ;       R2-R11  DESTROYED
                         02C1    597   ;
                         02C1    598   ; IMPLICIT OUTPUTS:
                         02C1    599   ;
                         02C1    600   ;       NONE
                         02C1    601   ;
                         02C1    602   ; COMPLETION CODES:
                         02C1    603   ;
                         02C1    604   ;       RC      1 = SUCCESS; 0 = FAILURE
                         02C1    605   ;
                         02C1    606   ; SIDE EFFECTS:
                         02C1    607   ;
                         02C1    608   ;       NONE
                         02C1    609   ;
                         02C1    610   ;--
                         02C1    611
                         02C1    612   TST$MISC_DTR::                           ; ENTRY POINT
                         02C1    613   MISC_SUCCESS:                            ; TEST WAS SUCCESSFUL
          50    01   D0  02C1    614           MOVL    #1,R0                    ; SET COMPLETION CODE TO SUCCESS
                         02C4    615   MISC_FAILURE:                            ; ENTER HERE IF TEST FAILED
   51  0000'CF   9E  02C4    616           MOVAB   W^TST$GT_MISC,R1         ; RETURN ADDRESS OF TEST ID STRING
          05         02C9    617           RSB                              ; EXIT
```

K 2

TST$DTRTEST   - DTR TEST ROUTINES   16-SEP-1984 01:27:40   VAX/VMS Macro V04-00   Page 15
V04-000   TST$BAD_DTR - INVALID TEST TYPE   5-SEP-1984 00:22:20   [DTSDTR.SRC]DTRTEST.MAR;1   (8)

```
                        02CA    619                    .SBTTL  TST$BAD_DTR - INVALID TEST TYPE
                  000002CA    620                    .PSECT  TST$CODE          NOWRT
                        02CA    621
                        02CA    622    ;++
                        02CA    623    ; FUNCTIONAL DESCRIPTION:
                        02CA    624    ;
                        02CA    625    ;     NONE
                        02CA    626    ;
                        02CA    627    ; CALLING SEQUENCE:
                        02CA    628    ;
                        02CA    629    ;     BSB/JSB TST$BAD_DTR
                        02CA    630    ;
                        02CA    631    ; INPUT PARAMETERS:
                        02CA    632    ;
                        02CA    633    ;     R9      TEST SUBFUNCTION VALUE
                        02CA    634    ;     R10     ADDRESS OF NCB USERDATA FIELD (COUNTED ASCII STRING)
                        02CA    635    ;     R11     ADDRESS OF NCB DESCRIPTOR BLOCK
                        02CA    636    ;
                        02CA    637    ; IMPLICIT INPUTS:
                        02CA    638    ;
                        02CA    639    ;     NONE
                        02CA    640    ;
                        02CA    641    ; OUTPUT PARAMETERS:
                        02CA    642    ;
                        02CA    643    ;     R0      COMPLETION CODE
                        02CA    644    ;     R1      ADDRESS OF TEST ID STRING
                        02CA    645    ;     R2-R11  DESTROYED
                        02CA    646    ;
                        02CA    647    ; IMPLICIT OUTPUTS:
                        02CA    648    ;
                        02CA    649    ;     NONE
                        02CA    650    ;
                        02CA    651    ; COMPLETION CODES:
                        02CA    652    ;
                        02CA    653    ;     R0      8 = FAILURE
                        02CA    654    ;
                        02CA    655    ; SIDE EFFECTS:
                        02CA    656    ;
                        02CA    657    ;     NONE
                        02CA    658    ;
                        02CA    659    ;--
                        02CA    660
                        02CA    661    TST$BAD_DTR::                                  ; ENTRY POINT
              FEC5  30  02CA    662                    BSBW    TST$CONN_REJECT        ; ISSUE CONNECT REJECT
50  01F5805B 8F  D0  02CD    663                    MOVL    #DTS$_BADFUNC,R0                  ; GIVE REASON FOR FAILURE
51     0000'CF  9E  02D4    664                    MOVAB   W^TST$GT_ERROR,R1      ; RETURN ADDRESS OF TEST ID STRING
                    05  02D9    665                    RSB                            ; EXIT
                        02DA    666                    .END
```

```
$$COUNT          = 00000003              TST$MAILAST_DTR   ********   X    02
ACCEPT_REJECT      00000195  R     02    TST$MISC_DTR      000002C1 RG     02
CONN_FAILURE       00000067  R     02    TST$QB_ASTADR     ********   X    02
CONN_SUCCESS       00000064  R     02    TST$QB_BUFLEN     ********   X    02
DATA_FAILURE       00000187  R     02    TST$QB_CODE       ********   X    02
DISC_FAILURE       00000200  R     02    TST$QB_QHEAD      ********   X    02
DISC_SUCCESS       000001FD  R     02    TST$QIOAST        ********   X    02
DTS$_BADFUNC     = 01F5805B             TST$QIOW          ********   X    02
DTS$_BADMAIL     = 01F5803B             TST$RECVAST_DTR   ********   X    02
DTS$_BADSUBFCN   = 01F58053             TST$STANDARD      ********   X    02
DTS$_INVOPTION   = 01F58063             VAL_K_BACK_NO   = 00000000
EFN_K_CONN_ACCE= 00000001               VAL_K_DISP_NO   = 00000000
EFN_K_CONN_REJE= 00000002               VAL_K_FLOW_MESS= 00000002
EFN_K_DISC_ABRT= 00000004               VAL_K_NAK_NO    = 00000000
EFN_K_DISC_SYNC= 00000003               VAL_K_PRIN_NO   = 00000000
EFN_K_READ_MAIL= 00000000               VAL_K_RETU_NO   = 00000000
EFN_K_RECV_DATA= 00000007               VAL_K_STAT_YES  = 00000001
INTE_FAILURE       000002BB  R     02    VAL_K_TYPE_ABRT= 00000001
K_LIST_MEB       = 00000000             VAL_K_TYPE_ACCE= 00000001
MAX_K_SIZE_DA    = 00001000             VAL_K_TYPE_ECHO= 00000003
MAX_K_SIZE_IN    = 00000010             VAL_K_TYPE_NAME= 00000000
MISC_FAILURE       000002C4  R     02    VAL_K_TYPE_SINK= 00000000
MISC_SUCCESS       000002C1  R     02
MSG$_ABORT       = 00000030
MSG$_DISCON      = 00000033
RT                 00000000 RG     02
SYS$HIBER          ********   GX   02
TST$BAD_DTR        000002CA RG     02
TST$CHECK_SS       ********   X    02
TST$CONN_ACCEPT    0000018D RG     02
TST$CONN_DTR       00000000 RG     02
TST$CONN_REJECT    00000192 RG     02
TST$DATA_DTR       0000006D RG     02
TST$DISC_DTR       000001A4 RG     02
TST$EXAM_MAIL      ********   X    02
TST$GB_ASTFLAGS    ********   X    02
TST$GB_BACK        ********   X    02
TST$GB_FLOW        ********   X    02
TST$GB_INTEBUF     ********   X    02
TST$GB_NAK         ********   X    02
TST$GB_RQUEUE      ********   X    02
TST$GB_XMITBUF     ********   X    02
TST$GL_FAOARG      ********   X    02
TST$GL_STATUS      ********   X    02
TST$GL_XMITDATA    ********   X    02
TST$GL_XMITINTE    ********   X    02
TST$GQ_DEACCESS    ********   X    02
TST$GT_CONN        ********   X    02
TST$GT_DATA        ********   X    02
TST$GT_DISC        ********   X    02
TST$GT_ERROR       ********   X    02
TST$GT_INTE        ********   X    02
TST$GT_MISC        ********   X    02
TST$GT_STANDARD    ********   X    02
TST$GW_SIZE        ********   X    02
TST$INTE_DTR       00000206 RG     02
TST$K_MAILBUF      ********   X    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
TST$CODE                   000002DA (    730.)   02 (   2.)  NOPIC  USR  CON  REL  LCL NOSHR  EXE  RD   NOWRT NOVEC BYTE

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


Phase                      Page faults   CPU Time     Elapsed Time
-----                      -----------   --------     ------------
Initialization                     36    00:00:00.08  00:00:00.78
Command processing                133    00:00:00.67  00:00:03.18
Pass 1                            207    00:00:05.17  00:00:13.99
Symbol table sort                   0    00:00:00.23  00:00:00.33
Pass 2                            122    00:00:01.89  00:00:05.10
Symbol table output                 8    00:00:00.07  00:00:00.10
Psect synopsis output               2    00:00:00.03  00:00:00.10
Cross-reference output              0    00:00:00.00  00:00:00.00
Assembler run totals              510    00:00:08.14  00:00:23.59
```

The working set limit was 1350 pages.
25405 bytes (50 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 208 non-local and 31 local symbols.
728 source lines were read in Pass 1, producing 18 object records in Pass 2.
22 pages of virtual memory were used to define 18 macros.

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


Macro library name                        Macros defined
------------------                        --------------
_$255$DUA28:[DTSDTR.OBJ]DTSDTR.MLB;1               6
_$255$DUA28:[SYSLIB]STARLET.MLB;2                  6
TOTALS (all libraries)                            12
```

289 GETS were required to define 12 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS$:DTRTEST/OBJ=OBJ$:DTRTEST MSRC$:DTPREFIX/UPDATE=(ENH$:DTPREFIX)+MSRC$:DTRTEST/UPDATE=(ENH$:DTRTEST)

DTSMAIN
LIS

DUMP
LIS

DUMPFILE
LIS

DTSMSG
LIS

DTSPARSE
LIS

DTRTEST
LIS

DUMPFAOLN
LIS

DUMPRE
REQ

DUMP

DUMP
MAP

DUMPHEADE
LIS

DTSAST
LIS

DTSTEST
LIS