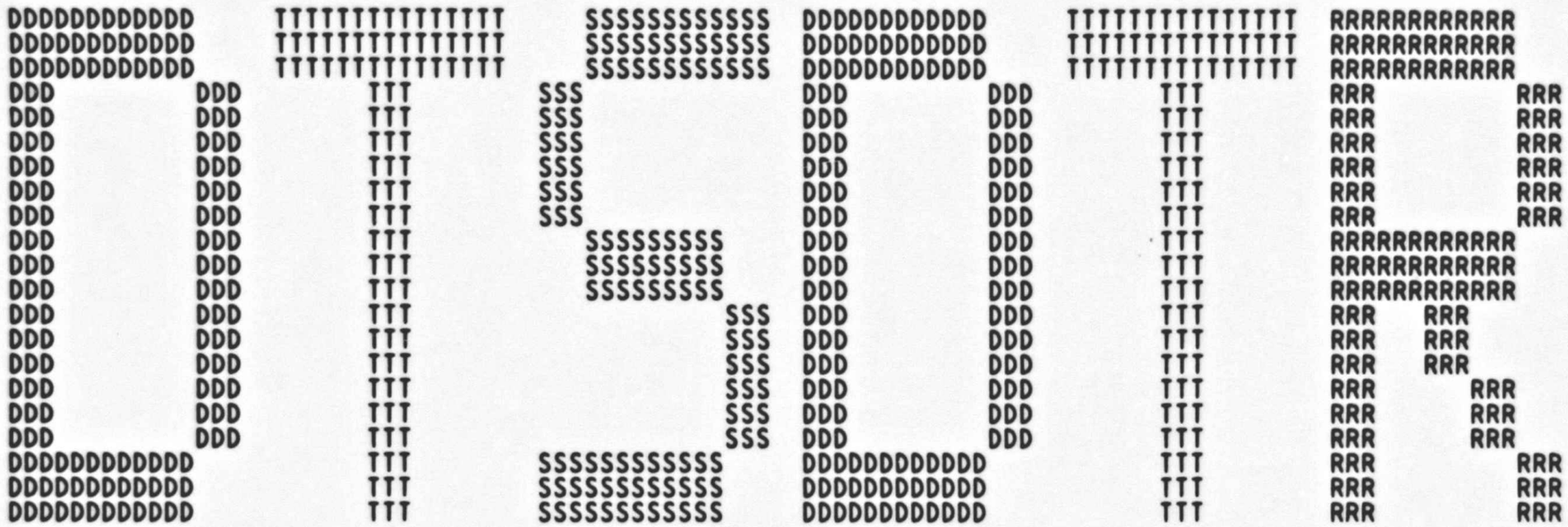
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDDDDDDDDDDD TTTTTTTTTTTTTTT SSSSSSSSSSS DDDDDDDDDDDD TTTTTTTTTTTTTTT RRRRRRRRRRR
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSS DDD 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 SSS DDD DDD TTT RRR RRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSSSSSSSS DDD DDD TTT RRRRRRRRRRR
DDD DDD TTT SSSSSSSSS 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
DDD DDD TTT SSS DDD DDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR
DDDDDDDDDDDD TTT SSSSSSSSSSS DDDDDDDDDDDD TTT RRR RRR

FILEID**DTDEFINE

```
DDDDDDDD    TTTTTTTTTT  DDDDDDDD    EEEEEEEEEE  FFFFFFFFFF    IIIIII    NN      NN  EEEEEEEEEE
DDDDDDDD    TTTTTTTTTT  DDDDDDDD    EEEEEEEEEE  FFFFFFFFFF    IIIIII    NN      NN  EEEEEEEEEE
DD      DD      TT      DD      DD  EE          FF              II      NN      NN  EE
DD      DD      TT      DD      DD  EE          FF              II      NN      NN  EE
DD      DD      TT      DD      DD  EE          FF              II      NNNN    NN  EE
DD      DD      TT      DD      DD  EE          FF              II      NNNN    NN  EE
DD      DD      TT      DD      DD  EEEEEEEE    FFFFFFFF        II      NN  NN  NN  EEEEEEEE
DD      DD      TT      DD      DD  EEEEEEEE    FFFFFFFF        II      NN  NN  NN  EEEEEEEE
DD      DD      TT      DD      DD  EE          FF              II      NN    NNNN  EE
DD      DD      TT      DD      DD  EE          FF              II      NN    NNNN  EE
DD      DD      TT      DD      DD  EE          FF              II      NN      NN  EE              ....
DD      DD      TT      DD      DD  EE          FF              II      NN      NN  EE              ....
DDDDDDDD        TT      DDDDDDDD    EEEEEEEEEE  FF          IIIIII    NN      NN  EEEEEEEEEE      ....
DDDDDDDD        TT      DDDDDDDD    EEEEEEEEEE  FF          IIIIII    NN      NN  EEEEEEEEEE      ....

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

```
.NLIST
;       .TITLE  TST$DTPREFIX - PREFIX MODULE FOR DTS/DTR
;       .IDENT  'V04-000'

;
;*****************************************************************************
;*                                                                           *
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;*                                                                           *
;*                                                                           *
;*****************************************************************************
;

;++
; FACILITY: DTS/DTR DECNET TEST PACKAGE
;
; ABSTRACT: PREFIX ASSEMBLY MODULE FOR DTS/DTR.
;
; ENVIRONMENT: DTS/DTR RUN IN USER MODE AND REQUIRE NETWORK PRIVILEGE.
;
; AUTHOR: JAMES A. KRYCKA,      CREATION DATE: 23-JAN-78
;
; MODIFICATIONS:
;--
```

```
;       .SBTTL  DECLARATIONS
;
; INCLUDE FILES:
;
        .LIBRARY \LIBD$:[DTSDTR.OBJ]DTSDTR.MLB\
;
; MACROS:
;
        NONE
;
; EQUATED SYMBOLS:
;
K_LIST_MEB=0                            ; .LIST MEB OPTION: 1=YES; 0=NO
;
; OWN STORAGE:
;
        NONE
;
.LIST
        .TITLE  TST$DTMACROS - MACRO DEFINITIONS FOR DTS/DTR
        .IDENT  'V04-000'
;
;*****************************************************************************
;*                                                                           *
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;*                                                                           *
;*                                                                           *
;*****************************************************************************
;
;++
; FACILITY: DTS/DTR DECNET TEST PACKAGE
;
; ABSTRACT: MACRO DEFINITIONS USED BY DTS/DTR MODULES.
;
; ENVIRONMENT: DTS/DTR RUN IN USER MODE AND REQUIRE NETWORK PRIVILEGE.
;
; AUTHOR: JAMES A. KRYCKA,      CREATION DATE: 11-AUG-77
;
; MODIFICATIONS:
;
;--
```

```
        .SBTTL  CODE GENERATION MACROS

;++
; QBLOCK GENERATES A QUADWORD DESCRIPTOR BLOCK FOLLOWED BY THE
; CHARACTER STRING AND/OR ALLOCATED SPACE.
;--

        .MACRO  QBLOCK  TEXT,SPACE=0,BUFADR,?LABEL1,?LABEL2
        .LONG   LABEL2-LABEL1
        .LONG   LABEL1
        .IF NB  BUFADR
BUFADR==.
        .ENDC
LABEL1:
        .IRP    STR,<TEXT>
        .ASCII  \STR\
        .ENDR
        .IF NE  SPACE
        .BLKB   SPACE
        .ENDC
LABEL2:
        .ENDM   QBLOCK

;++
; SSB SETS A SINGLE BIT IN A FIELD.
;--

        .MACRO  SSB     POS,BASE,?DISPL
        BBSS    POS,BASE,DISPL
DISPL:
        .ENDM   SSB

;++
; CSB CLEARS A SINGLE BIT IN A FIELD.
;--

        .MACRO  CSB     POS,BASE,?DISPL
        BBCC    POS,BASE,DISPL
DISPL:
        .ENDM   CSB

;++
; FILLBUF FILLS A BUFFER WITH A SPECIFIED CHARACTER. ON COMPLETION
; R3 CONTAINS THE ADDRESS OF ONE BYTE BEYOND THE FILLED BUFFER. NOTE
; THAT THIS MACRO USES THE MOVC5 INSTRUCTION WHICH DESTROYES R0 - R5!
; THE DEFAULT IS TO ZERO 512 BYTES (1 PAGE) AT THE SPECIFIED ADDRESS.
;--

        .MACRO  FILLBUF DST=,SIZE=#512,CHAR=#^X00
        MOVC5   #0,,CHAR,SIZE,DST
        .ENDM   FILLBUF

;++
; CHECK_SS BRANCHES TO A SUBROUTINE THAT CHECKS THE STATUS CODE IN R0
; FOLLOWING A CALL TO A SYSTEM SERVICE.
;--

        .MACRO  CHECK_SS
        BSBW    TST$CHECK_SS
        .ENDM   CHECK_SS

;++
; CHECK_RMS BRANCHES TO A SUBROUTINE THAT CHECKS THE COMPLETION CODE IN R0
```

```
; FOLLOWING A CALL TO RMS.
;--

        .MACRO  CHECK_RMS
        BSBW    TST$CHECK_RMS
        .ENDM   CHECK_RMS

;++
; CHECK_IOSB BRANCHES TO A SUBROUTINE THAT CHECKS THE STATUS CODE OF THE
; SPECIFIED I/O STATUS BLOCK FOLLOWING A CALL TO THE QIO SYSTEM SERVICE.
;--

        .MACRO  CHECK_IOSB      ADDRESS
        MOVAQ   ADDRESS,R0
        BSBW    TST$CHECK_IOSB
        .ENDM   CHECK_IOSB

;++
; $CASEB, $CASEW, AND $CASEL GENERATE A CASEB, CASEW, CASEL INSTRUCTION,
; RESPECTIVELY, FOLLOWED BY THE CASE DISPLACEMENT TABLE. THE PARAMETERS
; FOR EACH MACRO ARE:
;       SELECTOR= THE SELECTOR OPERAND
;       BASE    = THE BASE OPERAND
;       (THE LIMIT OPERAND IS CALCULATED FROM THE # OF ENTRIES IN DISPL)
;       DISPL   = THE CASE DISPLACEMENT LIST
; NOTE THAT THE MACRO DEFINITIONS PLACE BASE AFTER SELECTOR AND DISPL
; SO THAT BASE CAN BE OMITTED WHEN KEYWORDS ARE NOT USED IN THE MACRO
; INVOCATION.
;--

        .MACRO  $CASEB,SELECTOR,DISPL,BASE=#0
        $CASE   SELECTOR,<DISPL>,BASE,TYPE=B
        .ENDM   $CASEB

        .MACRO  $CASEW,SELECTOR,DISPL,BASE=#0
        $CASE   SELECTOR,<DISPL>,BASE,TYPE=W
        .ENDM   $CASEW

        .MACRO  $CASEL,SELECTOR,DISPL,BASE=#0
        $CASE   SELECTOR,<DISPL>,BASE,TYPE=L
        .ENDM   $CASEL

;++
; $CASE IS A LEVEL 2 MACRO USED BY $CASEB, $CASEW, AND $CASEL.
; $CASE GENERATES A CASE[B/W/L] INSTRUCTION FOLLOWED BY THE CASE
; DISPLACEMENT TABLE. THE PARAMETERS FOR THE MACRO ARE:
;       TYPE    = OPERAND DATATYPE OF B, W, OR L
;       SELECTOR= THE SELECTOR OPERAND
;       BASE    = THE BASE OPERAND
;       (THE LIMIT OPERAND IS CALCULATED FROM THE # OF ENTRIES IN DISPL)
;       DISPL   = THE CASE DISPLACEMENT LIST
; NOTE THAT THE MACRO DEFINITION PLACES SELECTOR AND DISPL AHEAD OF BASE
; AND TYPE SO THAT THE LATTER CAN BE OMITTED WHEN KEYWORDS ARE NOT USED
; IN THE MACRO INVOCATION.
;--

        .MACRO  $CASE,SELECTOR,DISPL,BASE=#0,TYPE=B,?TABLE
        $$COUNT=0
        .IRP    EP,<DISPL>
        $$COUNT=$$COUNT+1
        .ENDR
        .IF     EQ,$$COUNT
        .ERROR  ; ***** CASE DISPLACEMENT LIST IS NULL ***** ;
```

```
        .MEXIT
        .ENDC
        CASE'TYPE       SELECTOR,BASE,#<$$COUNT-1>
TABLE:
        .IRP    EP,<DISPL>
        .WORD   EP-TABLE
        .ENDR
        .ENDM   $CASE
```

```
        .SBTTL  SYMBOL DEFINITION MACROS

;++
; EFNDEF DEFINES THE USE OF EVENT FLAGS BY DTS/DTR.
; NOTE: MANY OF THE FLAG VALUES SERVE A DUAL PURPOSE; THEY ARE ALSO USED
; A FUNCTION/INDEX CODES THAT ARE MAPPED INTO THE APPROPRIATE QIO REQUEST
; SYSTEM SERVICE CALLS.
;--

        .MACRO  EFNDEF  GBL
        $DEFINI EFN,GBL
        $EQULST EFN_K_,GBL,,,<-         ; EFN [AND FUNCTION/INDEX CODE] FOR:
                <READ_MAIL,0>-          ; READ ASSOCIATED MAILBOX
                <CONN_INIT,1>-          ; NSP CONNECT INITIATE
                <CONN_ACCE,1>-          ; NSP CONNECT ACCEPT (CONFIRM)
                <CONN_REJE,2>-          ; NSP CONNECT REJECT
                <DISC_SYNC,3>-          ; NSP SYNCHRONOUS DISCONNECT
                <DISC_ABRT,4>-          ; NSP DISCONNECT ABORT
                <XMIT_DATA,5>-          ; NSP TRANSMIT DATA MESSAGE
                <XMIT_INTE,6>-          ; NSP TRANSMIT INTERRUPT MESSAGE
                <RECV_DATA,7>-          ; NSP RECEIVE DATA MESSAGE
                <TIMER,8>-              ; TIMER AST
                <SIGNAL,9>-             ; SIGNALLING AN EVENT FROM AN AST
        >                               ;
        $DEFEND EFN,GBL
        .ENDM   EFNDEF

;++
; FLGDEF DEFINES OFFSETS AND MASKS FOR COMMAND PARSE STATUS FLAGS.
;--

        .MACRO  FLGDEF  GBL
        $DEFINI FLG,GBL
        _VIELD  FLG,0,<-                ; MEANING:
                <PARSERROR,,M>-         ; PARSE ERROR DETECTED
                <MULTILINE,,M>-         ; COMMAND LINE IS CONTINUED
                <PARAMETER,,M>-         ; COMMAND PARAMETER FOUND
                <DELIMITER,,M>-         ; COMMAND DELIMITER FOUND
        >                               ;
        $DEFEND FLG,GBL
        .ENDM   FLGDEF

;++
; CMDDEF DEFINES COMMAND LANGUAGE SYMBOLS.
;--

        .MACRO  CMDDEF  GBL
        $DEFINI CMD,GBL
;
; DEFINE COMMAND PARAMETER VALUES (TST$GB_TEST).
;
        $EQULST VAL_K_,GBL,,,<-         ; TEST FUNCTION CODE:
                <TEST_CONN,0>-          ; CONNECT TEST
                <TEST_DATA,1>-          ; DATA TEST
                <TEST_DISC,2>-          ; DISCONNECT TEST
                <TEST_INTE,3>-          ; INTERRUPT TEST
                <TEST_MISC,4>-          ; MISCELLANEOUS TEST
        >                               ;
;
; DEFINE /[NO]PRINT QUALIFIER VALUES (TST$GB_PRINT).
;
        $EQULST VAL_K_,GBL,,,<-         ; FUNCTION MODIFIER CODE:
                <PRIN_NO,0>-            ; NOPRINT
```

```
                <PRIN_YES,128>-          ; PRINT (BIT7 = 1)
        >                                ;
;
; DEFINE /TYPE QUALIFIER VALUES (TST$GB_TYPE).
;
        $EQULST VAL_K_,GBL,,,<-          ; TEST SUBFUNCTION CODE:
                <TYPE_REJE,0>-           ; CONNECT REJECT
                <TYPE_ACCE,1>-           ; CONNECT ACCEPT (CONFIRM)
                <TYPE_SINK,0>-           ; SINK (NO CHECKING)
                <TYPE_SEQU,1>-           ; SEQUENCE CHECK
                <TYPE_PATT,2>-           ; SEQUENCE AND PATTERN CHECK
                <TYPE_ECHO,3>-           ; ECHO MESSAGE
                <TYPE_SYNC,0>-           ; SYNCHRONOUS DISCONNECT
                <TYPE_ABRT,1>-           ; DISCONNECT ABORT
                <TYPE_NAME,0>-           ; INVALID NODENAME
        >                                ;
;
; DEFINE /[NO]RETURN QUALIFIER VALUES (TST$GB_RETURN).
;
        $EQULST VAL_K_,GBL,,,<-          ; SUBFUNCTION MODIFIER CODE:
                <RETU_NO,0>-             ; NORETURN USERDATA
                <RETU_STAN,2>-           ; RETURN STANDARD USERDATA
                <RETU_RECE,4>-           ; RETURN RECEIVED USERDATA
        >                                ;
;
; DEFINE /[NO]FLOW QUALIFIER VALUES (TST$GB_FLOW).
;
        $EQULST VAL_K_,GBL,,,<-          ; FLOW CONTROL VALUE:
                <FLOW_NO,0>-             ; NOFLOW CONTROL
                <FLOW_SEGM,1>-           ; SEGMENT FLOW CONTROL
                <FLOW_MESS,2>-           ; MESSAGE FLOW CONTROL
        >                                ;
;
; DEFINE /[NO]STATISTICS QUALIFIER VALUES (TST$GB_STAT).
;
        $EQULST VAL_K_,GBL,,,<-          ; STATISTICS VALUE:
                <STAT_NO,0>-             ; NOSTATISTICS
                <STAT_YES,1>-            ; STATISTICS
        >                                ;
;
; DEFINE /[NO]BACK QUALIFIER VALUES (TST$GB_BACK).
; DEFINE /[NO]DISPLAY QUALIFIER VALUES (TST$GB_DISPLAY).
; DEFINE /[NO]NAK QUALIFIER VALUES (TST$GB_NAK).
; EACH OF THESE ALSO TAKE EXPLICIT NUMERIC VALUES.
;
        $EQULST VAL_K_,GBL,,,<-          ;
                <BACK_NO,0>-             ; NO BACK PRESSURE CONTROL
                <DISP_NO,0>-             ; NO DISPLAY
                <NAK_NO,0>-              ; NO NAK CONTROL
        >                                ;
;
; DEFINE DEFAULT QUALIFIER VALUES.
;
        $EQULST DFT_K_,GBL,,,<-          ; DEFAULT QUALIFIER VALUE FOR:
                <BACK,VAL_K_BACK_NO>-    ; BACK PRESSURE CONTROL
                <DISPLAY,VAL_K_DISP_NO>- ; DISPLAY SIZE IN BYTES
                <FLOW,VAL_K_FLOW_MESS>-  ; FLOW CONTROL
                <NAK,VAL_K_NAK_NO>-      ; NAK CONTROL
                <PRINT,VAL_K_PRIN_NO>-   ; PRINT
                <RETURN_CO,VAL_K_RETU_NO>- ; RETURN USERDATA (CONNECT)
                <RETURN_DI,VAL_K_RETU_NO>- ; RETURN USERDATA (DISCONNECT)
                <RQUEUE_DA,1>-           ; DTR QUEUE (DATA)
                <RQUEUE_IN,1>-           ; DTR QUEUE (INTERRUPT)
```

```
            <SIZE_DA,128>-          ; MESSAGE SIZE IN BYTES (DATA)
            <SIZE_IN,16>-           ; MESSAGE SIZE IN BYTES (INTERRUPT)
        >                           ;
        $EQULST DFT_K_,GBL,,,<-     ; DEFAULT QUALIFIER VALUE FOR:
            <SPEED,1000000>-        ; LINE SPEED IN BAUD
            <SQUEUE_DA,1>-          ; DTS QUEUE (DATA)
            <SQUEUE_IN,1>-          ; DTS QUEUE (INTERRUPT)
            <STAT,VAL_K_STAT_YES>-  ; STATISTICS
            <TIME_DA,030>-          ; TIME IN SECONDS (DATA)
            <TIME_IN,030>-          ; TIME IN SECONDS (INTERRUPT)
            <TYPE_CO,VAL_K_TYPE_ACCE>- ; TYPE (CONNECT)
            <TYPE_DA,VAL_K_TYPE_SINK>- ; TYPE (DATA)
            <TYPE_DI,VAL_K_TYPE_ABRT>- ; TYPE (DISCONNECT)
            <TYPE_IN,VAL_K_TYPE_SINK>- ; TYPE (INTERRUPT)
            <TYPE_MI,VAL_K_TYPE_NAME>- ; TYPE (MISCELLANEOUS)
        >                           ;
;
; DEFINE MAXIMUM QUALIFIER VALUES FOR THOSE QUALIFIERS THAT ACCEPT NUMERIC
; QUALIFIER VALUES.
;
        $EQULST MAX_K_,GBL,,,<-     ; MAXIMUM QUALIFIER VALUE FOR:
            <BACK,128>-             ; BACK PRESSURE CONTROL
            <DISPLAY,38>-           ; DISPLAY SIZE IN BYTES
            <NAK,128>-              ; NAK CONTROL
            <RQUEUE_DA,8>-          ; DTR QUEUE (DATA)
            <RQUEUE_IN,8>-          ; DTR QUEUE (INTERRUPT)
            <SIZE_DA,4096>-         ; MESSAGE SIZE IN BYTES (DATA)
            <SIZE_IN,16>-           ; MESSAGE SIZE IN BYTES (INTERRUPT)
            <SPEED,1000000>-        ; LINE SPEED IN BAUD
            <SQUEUE_DA,8>-          ; DTS QUEUE (DATA)
            <SQUEUE_IN,8>-          ; DTS QUEUE (INTERRUPT)
            <TIME_DA,360000>-       ; TIME IN SECONDS (DATA)
            <TIME_IN,360000>-       ; TIME IN SECONDS (INTERRUPT)
        >                           ;
        $DEFEND CMD,GBL
        .ENDM   CMDDEF

;++
; VLDDEF DEFINE OFFSETS AND MASKS FOR VALID (PERMITTED) QUALIFIER FLAGS
; IN TST$GL_VALID.
;--

        .MACRO  VLDDEF  GBL
        $DEFINI VLD,GBL
        _VIELD  VLD,0,<-            ; QUALIFIER:
            <BACK,,M>-              ; BACK
            <DISPLAY,,M>-           ; DISPLAY
            <FLOW,,M>-              ; FLOW
            <HOURS,,M>-             ; HOURS
            <MINUTES,,M>-           ; MINUTES
            <NAK,,M>-               ; NAK
            <NOBACK,,M>-            ; NOBACK
            <NODENAME,,M>-          ; NODENAME
            <NODISPLAY,,M>-         ; NODISPLAY
            <NOFLOW,,M>-            ; NOFLOW
            <NONAK,,M>-             ; NONAK
            <NOPRINT,,M>-           ; NOPRINT
            <NORETURN,,M>-          ; NORETURN
            <NOSTAT,,M>-            ; NOSTATISTICS
            <PRINT,,M>-             ; PRINT
            <RETURN,,M>-            ; RETURN
            <RQUEUE,,M>-            ; DTR QUEUE
            <SECONDS,,M>-           ; SECONDS
```

```
        <SIZE,,M>-                  ; SIZE
        <SPEED,,M>-                 ; SPEED
        <SQUEUE,,M>-                ; DTS QUEUE
        <STAT,,M>-                  ; STATISTICS
        <TYPE,,M>-                  ; TYPE
>                                   ;
$DEFEND VLD,GBL
.ENDM   VLDDEF
.END
```

XWDRIVER
LIS

DTGLOBAL
LIS

DTDEFINE
LIS

DTRMAIN
LIS

DTRAST
LIS

DTPREFIX
MAR

DTSDTR

DTCOMMON
LIS

DTRECV
MAP

DTSEND
MAP

DTMACROS
MAR