

```

DDDDDDDDDDDD  TTTTTTTTTTTTTT  SSSSSSSSSSSS  DDDDDDDDDDDDD  TTTTTTTTTTTTTT  RRRRRRRRRRRR
DDDDDDDDDDDD  TTTTTTTTTTTTTT  SSSSSSSSSSSS  DDDDDDDDDDDDD  TTTTTTTTTTTTTT  RRRRRRRRRRRR
DDDDDDDDDDDD  TTTTTTTTTTTTTT  SSSSSSSSSSSS  DDDDDDDDDDDDD  TTTTTTTTTTTTTT  RRRRRRRRRRRR
DDD           DDD           TTT           SSS           DDD           DDD           TTT           RRR           RRR
DDD           DDD           TTT           SSS           DDD           DDD           TTT           RRR           RRR
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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           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           SSSSSSSSSSSS  DDDDDDDDDDDDD  TTT           RRRRRRRRRRRR
DDDDDDDDDDDD  TTT           SSSSSSSSSSSS  DDDDDDDDDDDDD  TTT           RRRRRRRRRRRR
DDDDDDDDDDDD  TTT           SSSSSSSSSSSS  DDDDDDDDDDDDD  TTT           RRRRRRRRRRRR

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DDDDDDDD      TTTTTTTTTT  RRRRRRRR      AAAAAA      SSSSSSSS  TTTTTTTTTT
DDDDDDDD      TTTTTTTTTT  RRRRRRRR      AAAAAA      SSSSSSSS  TTTTTTTTTT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DD      DD      TT      RRRRRRRR      AA      AA      SSSSSS      TT
DD      DD      TT      RRRRRRRR      AA      AA      SSSSSS      TT
DD      DD      TT      RR  RR      AAAAAAAAAA      SS      TT
DD      DD      TT      RR  RR      AAAAAAAAAA      SS      TT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DD      DD      TT      RR      RR      AA      AA      SS      TT
DDDDDDDD      TT      RR      RR      AA      AA      SSSSSSSS      TT
DDDDDDDD      TT      RR      RR      AA      AA      SSSSSSSS      TT

```

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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
LLLLLLLLLLLL  IIIIII      SSSSSSSS
LLLLLLLLLLLL  IIIIII      SSSSSSSS

```

(2)	42
(3)	65
(4)	142
(5)	186
(6)	270

DECLARATIONS  
TST\$RECVAST\_DTR - RECEIVE DATA MESSAGE AST ROUTINE  
TST\$XMITAST\_DTR - TRANSMIT DATA MESSAGE AST ROUTINE  
TST\$MAILAST\_DTR - READ MAILBOX AST ROUTINE  
TST\$INTEAST\_DTR - TRANSMIT INTERRUPT MESSAGE AST ROUTINE

```
0000 1 .TITLE TSTDTRAST - DTR AST ROUTINES
0000 2 .IDENT 'V04-000'
0000 3
0000 4 :
0000 5 :*****
0000 6 :*
0000 7 :* COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 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: DTS/DTR DECNET TEST PACKAGE
0000 31 :
0000 32 : ABSTRACT: THIS MODULE CONTAINS QIO AND TIMER AST ROUTINES FOR DTR.
0000 33 :
0000 34 : ENVIRONMENT: DTR RUNS IN USER MODE AND REQUIRES NETWORK PRIVILEGE.
0000 35 :
0000 36 : AUTHOR: JAMES A. KRYCKA, CREATION DATE: 7-DEC-77
0000 37 :
0000 38 : MODIFICATIONS:
0000 39 :
0000 40 :--
```

```
0000 42      .SBTTL  DECLARATIONS
0000 43
0000 44      :
0000 45      : INCLUDE FILES:
0000 46      :
0000 47      $DTSDEF
0000 48      CMDDEF           ; DEFINE COMMAND LANGUAGE SYMBOLS
0000 49      EFNDEF          ; DEFINE EFN'S AND FUNCTION CODES
0000 50      $MSGDEF         ; DEFINE MAILBOX MESSAGE ID CODES
0000 51      .IIF NE K_LIST_MEB, .LIST MEB ; DEFINED IN DTPREFIX.MAR
0000 52      :
0000 53      : MACROS:
0000 54      :
0000 55      :     NONE
0000 56      :
0000 57      : EQUATED SYMBOLS:
0000 58      :
0000 59      :     NONE
0000 60      :
0000 61      : OWN STORAGE:
0000 62      :
0000 63      :     NONE
```

```

0000 0000 65 .SBTTL TST$RECVAST_DTR - RECEIVE DATA MESSAGE AST ROUTINE
0000 0000 66 .PSECT TST$CODE NOWRT
0000 0000 67 RA:: ; SYMBOL FOR DEBUGGING PURPOSES
0000 0000 68
0000 0000 69 :++
0000 0000 70 : FUNCTIONAL DESCRIPTION:
0000 0000 71 :
0000 0000 72 : NONE
0000 0000 73 :
0000 0000 74 : CALLING SEQUENCE:
0000 0000 75 :
0000 0000 76 : CALL #5,TST$RECVAST_DTR (INVOKED BY VAX/VMS AS AN AST)
0000 0000 77 :
0000 0000 78 : INPUT PARAMETERS:
0000 0000 79 :
0000 0000 80 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
0000 0000 81 :
0000 0000 82 : IMPLICIT INPUTS:
0000 0000 83 :
0000 0000 84 : NONE
0000 0000 85 :
0000 0000 86 : OUTPUT PARAMETERS:
0000 0000 87 :
0000 0000 88 : NONE
0000 0000 89 :
0000 0000 90 : IMPLICIT OUTPUTS:
0000 0000 91 :
0000 0000 92 : NONE
0000 0000 93 :
0000 0000 94 : COMPLETION CODES:
0000 0000 95 :
0000 0000 96 : NONE
0000 0000 97 :
0000 0000 98 : SIDE EFFECTS:
0000 0000 99 :
0000 0000 100 : NONE
0000 0000 101 :
0000 0000 102 :--
0000 0000 103
003C 0000 104 .ENTRY TST$RECVAST_DTR,^M<R2,R3,R4,R5> ; ENTRY POINT
0002 0000 105 CHECK_IOSB W^TST$GQ_RECVIOSB ; CHECK I/O STATUS CODE
5B 51 E9 000A 106 BLBC R1,40$ ; BRANCH ON FAILURE
0000'CF D6 000D 107 INCL W^TST$GL_RECVDATA ; INCREMENT COUNTER
0011 0000 108 $CASEB SELECTOR=W^TST$GB_TYPE,DISPL=<- ;
0011 0000 109 30$- ; NO ACTION REQUIRED
0011 0000 110 20$- ; SEQUENCE CHECK
0011 0000 111 10$- ; SEQUENCE AND PATTERN CHECK
0011 0000 112 > ; ECHO MESSAGE
0000'CF D6 001D 113 INCL W^TST$GB_XMITBUF ; UPDATE MESSAGE SEQUENCE NUMBER
0002'CF 3C 0021 114 MOVZWL W^TST$GQ_RECVIOSB+2,-
0000'CF 0025 115 W^TST$QBR_XMTDATA+TST$QB_BUFLN;SET SIZE TO ECHO
0000'CF 0E 0028 116 INSQUE W^TST$QBR_XMTDATA,-
0004'DF 002C 117 @W^TST$QB_QHEAD+4 ; QUEUE XMT REQUEST
1B 11 002F 118 BRB 30$ ; JOIN COMMON CODE
50 0000'CF 3C 0031 119 10$: MOVZWL W^TST$GW_SIZE,R0 ; GET MESSAGE SIZE
50 04 C2 0036 120 SUBL2 #4,R0 ; CALCULATE SIZE LESS SEQUENCE #
0004'CF 50 29 0039 121 CMPC3 R0,W^TST$GB_XMITBUF+4,- ; COMPARE EXPECTED PATTERN

```

```

0004'CF      003E 122
              26 12 0041 123
0000'CF      01 0043 124 20$: BNEQ W^TST$GB_RECVBUF+4 ; AGAINST ACTUAL PATTERN
0000'CF      0047 125      CMPL W^TST$GE_RECVDATA,- ; BRANCH ON PATTERN ERROR
              27 12 004A 126      BNEQ W^TST$GB_RECVBUF ; COMPARE EXPECTED SEQUENCE #
              004C 127 30$:      RECVAST_ERROR1 ; AGAINST ACTUAL SEQUENCE #
              004C 128      MOVZWL W^TST$GW_SIZE,- ; BRANCH ON SEQUENCE ERROR
0000'CF      3C 004C 128      W^TST$QBR_RCVDATA+TST$QB_BUFLN ; SAVE SIZE OF READ
0000'CF      0E 0050 129      INSQUE W^TST$QBR_RCVDATA,-
0000'CF      0057 130      @W^TST$QB_QHEAD+4 ; QUEUE NEW READ
0004'DF      005A 132      $WAKE_S ; WAKE USER LEVEL
              0065 133      CHECK_SS ; CHECK STATUS CODE
              04 0068 134 40$: RET ; EXIT
0000'CF      01F58043 8F 0069 135 RECVAST_ERROR2: ; PATTERN CHECK ERROR
              04 0072 137      MOVL #DTSS_BADPAT,W^TST$GL_STATUS ; EXIT
0000'CF      01F5804B 8F 0073 138 RECVAST_ERROR1: ; SEQUENCE CHECK ERROR
              04 0073 139      MOVL #DTSS_BADSEQNUM,W^TST$GL_STATUS ; EXIT
              04 007C 140      RET. ; EXIT

```

```

007D 142 .SBTTL TST$XMITAST_DTR - TRANSMIT DATA MESSAGE AST ROUTINE
0000007D 143 .PSECT TST$CODE NOWRT
007D 144
007D 145 :++
007D 146 : FUNCTIONAL DESCRIPTION:
007D 147 :
007D 148 : NONE
007D 149 :
007D 150 : CALLING SEQUENCE:
007D 151 :
007D 152 : CALL #5,TST$XMITAST_DTR (INVOKED BY VAX/VMS AS AN AST)
007D 153 :
007D 154 : INPUT PARAMETERS:
007D 155 :
007D 156 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
007D 157 :
007D 158 : IMPLICIT INPUTS:
007D 159 :
007D 160 : NONE
007D 161 :
007D 162 : OUTPUT PARAMETERS:
007D 163 :
007D 164 : NONE
007D 165 :
007D 166 : IMPLICIT OUTPUTS:
007D 167 :
007D 168 : NONE
007D 169 :
007D 170 : COMPLETION CODES:
007D 171 :
007D 172 : NONE
007D 173 :
007D 174 : SIDE EFFECTS:
007D 175 :
007D 176 : NONE
007D 177 :
007D 178 :--
007D 179
0004 007D 180 .ENTRY TST$XMITAST_DTR,^M<R2> : ENTRY POINT
007F 181 CHECK_IOSB W^TST$GQ_XMITIOSB : CHECK I/O STATUS CODE
04 51 E9 0087 182 BLBC R1,10$ : BRANCH ON FAILURE
0000'CF D6 008A 183 INCL W^TST$GL_XMITDATA : INCREMENT COUNTER
04 008E 184 10$: RET : EXIT

```



```

008F 186 .SBTTL TST$MAILAST_DTR - READ MAILBOX AST ROUTINE
0000008F 187 .PSECT TST$CODE NOWRT
008F 188
008F 189 :++
008F 190 : FUNCTIONAL DESCRIPTION:
008F 191 :
008F 192 : NONE
008F 193 :
008F 194 : CALLING SEQUENCE:
008F 195 :
008F 196 : CALL #5,TST$MAILAST_DTR (INVOKED BY VAX/VMS AS AN AST)
008F 197 :
008F 198 : INPUT PARAMETERS:
008F 199 :
008F 200 : 4(AP) ADDRESS OF Q.I.O PARAMETER BLOCK
008F 201 :
008F 202 : IMPLICIT INPUTS:
008F 203 :
008F 204 : NONE
008F 205 :
008F 206 : OUTPUT PARAMETERS:
008F 207 :
008F 208 : NONE
008F 209 :
008F 210 : IMPLICIT OUTPUTS:
008F 211 :
008F 212 : NONE
008F 213 :
008F 214 : COMPLETION CODES:
008F 215 :
008F 216 : NONE
008F 217 :
008F 218 : SIDE EFFECTS:
008F 219 :
008F 220 : NONE
008F 221 :
008F 222 : --
008F 223 :
00FC 008F 224 .ENTRY TST$MAILAST_DTR,^M<R2,R3,R4,R5,R6,R7> ; ENTRY POINT
FF6C' 30 0091 225 BSBW TST$EXAM_MAIL ; EXAMINE THE MESSAGE
35 56 B1 0094 226 CMPW R6,#MSG$_INTMSG ; IS IT AN INTERRUPT MESSAGE?
58 12 0097 227 BNEQU NOT_INTE_MSG ; NO
0000'CF D6 0099 228 INCL W^TST$GL_RECVINTE ; YES, INCREMENT COUNTER
009D 229 $CASEB SELECTOR=W^TST$GB_TYPE,DISPL=<- ;
009D 230 30$- ; NO ACTION REQUIRED
009D 231 20$- ; SEQUENCE CHECK
009D 232 10$- ; SEQUENCE AND PATTERN CHECK
009D 233 > ; ECHO MESSAGE
0000'CF D6 00A9 234 INCL W^TST$GB_INTEBUF ; UPDATE MESSAGE SEQUENCE NUMBER
00C0'CF 67 9A 00AD 235 MOVZBL (R7),W^TST$QBR_XMTINT+-
00B2 236 TST$QB_BUFLN ; SAVE SIZE OF INTERRUPT MESSAGE
0000'CF 0E 00B2 237 INSQUE W^TST$QBR_XMTINT,-
0004'DF 00B6 238 @W^TST$QB_QHEAD+4 ; QUEUE UP INTERRUPT XMT REQUEST
50 17 11 00B9 239 BRB 30$ ; JOIN COMMON CODE
50 67 9A 00BB 240 10$: MOVZBL (R7),R0 ; GET INTERRUPT MESSAGE SIZE
50 04 C2 00BE 241 SUBL2 #4,R0 ; CALCULATE SIZE LESS SEQUENCE #
0004'CF 50 29 00C1 242 CMPC3 R0,W^TST$GB_INTEBUF+4,- ; COMPARE EXPECTED PATTERN

```

```

05 A7      00C6  243      5(R7)      ; AGAINST ACTUAL PATTERN
      49      12 00C8  244      BNEQ MAILAST_ERROR2 ; BRANCH ON PATTERN ERROR
0000'CF    D1 00CA  245 20$:  CMPL W^TST$GL_RECVINTE,- ; COMPARE EXPECTED SEQUENCE #
      01 A7    00CE  246      1(R7)      ; AGAINST ACTUAL SEQUENCE #
      4B      12 00D0  247      BNEQ MAILAST_ERROR1 ; BRANCH ON SEQUENCE ERROR
      00D2  248 30$:
00000000'8F D0 00D2  249      MOVL #TST$K_MAILBUF,-
      0000'CF 00D8  250      W^TST$QBR_RCVMAIL+TST$QB_BUFLN ; SET READ SIZE
      0000'CF 0E 00DB  251      INSQUE W^TST$QBR_RCVMAIL,-
      0004'CF 00DF  252      @W^TST$QB_QHEAD+4 ; QUEUE MAILBOX READ
      00E2  253      $WAKE_S ; WAKE USER LEVEL
      00ED  254      CHECK_SS ; CHECK STATUS CODE
      04      00F0  255      RET ; EXIT
      00F1  256 NOT_INTE MSG:
      00F1  257      $CANCEL S CHAN=W^TST$GW_LINKCHAN ; CANCEL ALL PENDING LINK I/O REQUESTS
      00FD  258      CHECK_SS ; CHECK STATUS CODE
      0000'CF 96 0100  259      INCB W^TST$GB_ASTFLAGS ; NOTE END OF TEST
      0104  260      $WAKE_S ; WAKE USER LEVEL
      010F  261      CHECK_SS ; CHECK STATUS CODE
      04      0112  262      RET ; EXIT
      0113  263 MAILAST_ERROR2:
0000'CF 01F58043 8F D0 0113  264      MOVL #DTSS_BADPAT,W^TST$GL_STATUS ; PATTERN CHECK ERROR
      04      011C  265      RET ; EXIT
      011D  266 MAILAST_ERROR1:
0000'CF 01F5804B 8F D0 011D  267      MOVL #DTSS_BADSEQNUM,W^TST$GL_STATUS ; SEQUENCE CHECK ERROR
      04      0126  268      RET ; EXIT

```

```

0000 0127 270      .SBTTL  TST$INTEAST_DTR - TRANSMIT INTERRUPT MESSAGE AST ROUTINE
0127 271      .PSECT  TST$CODE          NOWRT
0127 272
0127 273      :++
0127 274      : FUNCTIONAL DESCRIPTION:
0127 275      :
0127 276      :     NONE
0127 277      :
0127 278      : CALLING SEQUENCE:
0127 279      :
0127 280      :     CALL  #5,TST$INTEAST_DTR      (INVOKED BY VAX/VMS AS AN AST)
0127 281      :
0127 282      : INPUT PARAMETERS:
0127 283      :
0127 284      :     4(AP)  ADDRESS OF QIO PARAMETER BLOCK
0127 285      :
0127 286      : IMPLICIT INPUTS:
0127 287      :
0127 288      :     NONE
0127 289      :
0127 290      : OUTPUT PARAMETERS:
0127 291      :
0127 292      :     NONE
0127 293      :
0127 294      : IMPLICIT OUTPUTS:
0127 295      :
0127 296      :     NONE
0127 297      :
0127 298      : COMPLETION CODES:
0127 299      :
0127 300      :     NONE
0127 301      :
0127 302      : SIDE EFFECTS:
0127 303      :
0127 304      :     NONE
0127 305      :
0127 306      : --
0127 307
0004 0127 308      .ENTRY  TST$INTEAST_DTR,^M<R2>  ; ENTRY POINT
0000'8F 0004 B1 0129 309      CMPW   #SS$ NOSOLICIT,-
00000000'EF 012D 310      TST$GQ_INTEIOSB      ;CHECK FOR REFUSAL DUE TO NO SOLICIT
0000'CF 16 12 0132 311      BNEQU  SS$              ;SKIP IF NOT THE CASE
0004'DF 0004 OE 0134 312      INSQUE W^TST$QBR_XMTINT,-
0138 313      @W^TST$QB_QHEAD+4      ;REQUEUE REQUEST
0138 314      $WAKE_S          ;TELL MAINLINE ABOUT IT
0146 315      CHECK_SS
04 0149 316      RET
014A 317      5$:
014A 318      CHECK_IOSB W^TST$GQ_INTEIOSB      ; CHECK I/O STATUS CODE
04 51 E9 0152 319      BLBC  R1,10$          ; BRANCH ON FAILURE
0000'CF D6 0155 320      INCL  W^TST$GL_XMITINTE      ; INCREMENT COUNTER
04 0159 321      10$:
015A 322      RET              ; EXIT
015A 322      .END

```

TSTSDTRAST  
Symbol table

- DTR AST ROUTINES

F 16

16-SEP-1984 01:28:10 VAX/VMS Macro V04-00  
5-SEP-1984 00:22:13 [DTS DTR.SRC]DTRAST.MAR;1

Page 9  
(6)

\$\$COUNT	=	00000003		
DTSS_BADPAT	=	01F58043		
DTSS_BADSEQNUM	=	01F5804B		
K_LIST_MEB	=	00000000		
MAILAST_ERROR1		0000011D	R	02
MAILAST_ERROR2		00000113	R	02
MSG\$ INTMSG	=	00000035		
NOT_INTE_MSG		000000F1	R	02
RA		00000000	RG	02
RECVAST_ERROR1		00000073	R	02
RECVAST_ERROR2		00000069	R	02
SS\$ NOSOLICIT	*****		X	02
SYSCANCEL	*****		GX	02
SYSSWAKE	*****		GX	02
TST\$CHECK_IOSB	*****		X	02
TST\$CHECK_SS	*****		X	02
TST\$EXAM_MAIL	*****		X	02
TST\$GB_ASTFLAGS	*****		X	02
TST\$GB_INTEBUF	*****		X	02
TST\$GB_RECIBUF	*****		X	02
TST\$GB_TYPE	*****		X	02
TST\$GB_XMITBUF	*****		X	02
TST\$GL_RECVDATA	*****		X	02
TST\$GL_RECVINTE	*****		X	02
TST\$GL_STATUS	*****		X	02
TST\$GL_XMITDATA	*****		X	02
TST\$GL_XMITINTE	*****		X	02
TST\$GQ_INTEIOSB	*****		X	02
TST\$GQ_RECUIOSB	*****		X	02
TST\$GQ_XMITIOSB	*****		X	02
TST\$GW_LINKCHAN	*****		X	02
TST\$GW_SIZE	*****		X	02
TST\$INTEAST_DTR	00000127		RG	02
TST\$K_MAILBUF	*****		X	02
TST\$MAILAST_DTR	0000008F		RG	02
TST\$QBR_RCVDATA	*****		X	02
TST\$QBR_RCVMAIL	*****		X	02
TST\$QBR_XMTDATA	*****		X	02
TST\$QBR_XMTINT	*****		X	02
TST\$QB_BUFLN	*****		X	02
TST\$QB_QHEAD	*****		X	02
TST\$RECVAST_DTR	00000000		RG	02
TST\$XMITAST_DTR	0000007D		RG	02
VAL_K_BACK_NO	=	00000000		
VAL_K_DISP_NO	=	00000000		
VAL_K_FLOW_MESS	=	00000002		
VAL_K_NAK_NO	=	00000000		
VAL_K_PRIOR_NO	=	00000000		
VAL_K_RETU_NO	=	00000000		
VAL_K_STAT_YES	=	00000001		
VAL_K_TYPE_ABRT	=	00000001		
VAL_K_TYPE_ACCE	=	00000001		
VAL_K_TYPE_NAME	=	00000000		
VAL_K_TYPE_SINK	=	00000000		

-----  
! Psect synopsis !  
-----

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TST\$CODE	0000015A ( 346.)	02 ( 2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

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

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.06	00:00:00.82
Command processing	104	00:00:00.55	00:00:02.81
Pass 1	201	00:00:04.71	00:00:15.61
Symbol table sort	0	00:00:00.20	00:00:00.28
Pass 2	74	00:00:01.22	00:00:04.12
Symbol table output	6	00:00:00.05	00:00:00.06
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	418	00:00:06.81	00:00:23.72

The working set limit was 1050 pages.  
20707 bytes (41 pages) of virtual memory were used to buffer the intermediate code.  
There were 20 pages of symbol table space allocated to hold 195 non-local and 12 local symbols.  
384 source lines were read in Pass 1, producing 28 object records in Pass 2.  
25 pages of virtual memory were used to define 21 macros.

-----  
! Macro library statistics !  
-----

Macro library name	Macros defined
_\$255\$DUA28:[DTS DTR.OBJ]DTS DTR.MLB;1	7
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	8
TOTALS (all libraries)	15

307 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:DTRAST/OBJ=OBJ\$:DTRAST MSRCS:DTPREFIX/UPDATE=(ENH\$:DTPREFIX)+MSRCS:DTRAST/UPDATE-(ENH\$:DTRAST)

