


```

DDDDDDDD      TTTTTTTTTT      SSSSSSSS      AAAAAA      SSSSSSSS      TTTTTTTTTT
DDDDDDDD      TTTTTTTTTT      SSSSSSSS      AA        AA      SSSSSSSS      TTTTTTTTTT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SSSSSS      AA        AA      SSSSSS      TT
DD      DD      TT      SSSSSS      AA        AA      SSSSSS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SS      AA        AA      SS      TT
DD      DD      TT      SSSSSSSS      AA        AA      SSSSSSSS      TT
DD      DD      TT      SSSSSSSS      AA        AA      SSSSSSSS      TT

```

```

....
....
....
....

```

```

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

```

(2)	42
(3)	65
(4)	122
(5)	182
(6)	240
(7)	314

DECLARATIONS
TST\$TIMER_DTS - TIMER AST ROUTINE
TST\$XMITAST_DTS - TRANSMIT DATA MESSAGE AST ROUTINE
TST\$RECVAST_DTS - RECEIVE DATA MESSAGE AST ROUTINE
TST\$MAILAST_DTS - READ MAILBOX AST ROUTINE
TST\$INTEAST_DTS - TRANSMIT INTERRUPT MESSAGE AST ROUTINE

```
0000 1 .TITLE TSTSDTSAST - DTS AST 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: THIS MODULE CONTAINS QIO AND TIMER AST ROUTINES FOR DTS.
0000 33 :
0000 34 : ENVIRONMENT: DTS 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      ;DTS ERROR CODES
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$TIMER_DTS - TIMER AST ROUTINE
0000 0000 66 .PSECT TST$CODE NOWRT
0000 0000 67 SA:: ; 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$TIMER_DTS (INVOKED BY VAX/VMS AS AN AST)
0000 0000 77 :
0000 0000 78 : INPUT PARAMETERS:
0000 0000 79 :
0000 0000 80 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
0000 0000 81 :
0000 0000 82 : IMPLICIT INPUTS:
0000 0000 83 :
0000 0000 84 : NONE
0000 0000 85 :
0000 0000 86 : OUTPUT PARAMETERS:
0000 0000 87 :
0000 0000 88 : NONE
0000 0000 89 :
0000 0000 90 : IMPLICIT OUTPUTS:
0000 0000 91 :
0000 0000 92 : NONE
0000 0000 93 :
0000 0000 94 : COMPLETION CODES:
0000 0000 95 :
0000 0000 96 : NONE
0000 0000 97 :
0000 0000 98 : SIDE EFFECTS:
0000 0000 99 :
0000 0000 100 : NONE
0000 0000 101 :
0000 0000 102 : --
0000 0000 103 :
0000 0000 104 .ENTRY TST$TIMER_DTS,^M<R2,R3,R4> ; ENTRY POINT
0000 0002 105 DECL W^TST$GL_CLOCK ; DECREMENTS TIMEOUT CONSTANT
0000 0006 106 BEQLU 10$ ; IF NOT ZERO THEN TEST CONTINUES
0000 0008 107 $SETIMR_S EFN=#EFN_K_TIMER-
0000 0008 108 DAYTIM=W^TST$GO NANOSEC-
0000 0008 109 ASTADR=W^TST$TIMER_DTS
0000 001B 110 RET
0000 001C 111 10$:
0000 001C 112 $CANCEL_S CHAN=W^TST$GW_LINKCHAN ; CANCEL ALL PENDING LINK I/O REQUESTS
0000 0028 113 CHECK_SS ; CHECK STATUS CODE
0000 002B 114 $CANCEL_S CHAN=W^TST$GW_MAILCHAN ; CANCEL MAILBOX READ
0000 0037 115 CHECK_SS ; CHECK STATUS CODE
0000 003A 116 : $SETEF_S EFN=#EFN_K_SIGNAL ; SIGNAL END OF TEST
0000 003A 117 : MOVB #1,W^TST$GB_ASTFLAGS ; DENOTE CLOCK TIMEOUT
0000 003F 118 $WAKE_S ; WAKEUP MAINLINE
0000 004A 119 CHECK_SS ; CHECK STATUS CODE
0000 004D 120 RET ; EXIT

```

```

004E 122      .SBTTL TST$XMITAST_DTS - TRANSMIT DATA MESSAGE AST ROUTINE
0000004E 123    .PSECT TST$CODE          NOWRT
004E 124
004E 125      :++
004E 126      : FUNCTIONAL DESCRIPTION:
004E 127      :
004E 128      :     NONE
004E 129
004E 130      : CALLING SEQUENCE:
004E 131      :
004E 132      :     CALL #5,TST$XMITAST_DTS      (INVOKED BY VAX/VMS AS AN AST)
004E 133
004E 134      : INPUT PARAMETERS:
004E 135      :
004E 136      :     4(AP) ADDRESS OF QIO PARAMETER BLOCK
004E 137
004E 138      : IMPLICIT INPUTS:
004E 139      :
004E 140      :     NONE
004E 141
004E 142      : OUTPUT PARAMETERS:
004E 143      :
004E 144      :     NONE
004E 145
004E 146      : IMPLICIT OUTPUTS:
004E 147      :
004E 148      :     NONE
004E 149
004E 150      : COMPLETION CODES:
004E 151      :
004E 152      :     NONE
004E 153
004E 154      : SIDE EFFECTS:
004E 155      :
004E 156      :     NONE
004E 157
004E 158      :--
004E 159
0004 004E 160    .ENTRY TST$XMITAST_DTS,^M<R2>      : ENTRY POINT
0050 161    CHECK_IOSB W^TST$GQ_XMITIOSB          : CHECK I/O STATUS CODE
0058 162    BLBC R1,10$                            : BRANCH ON FAILURE
005B 163    CMPW R2,W^TST$GW_SIZE                 : IS MESSAGE CORRECT SIZE?
0060 164    BNEQ 20$                               : BRANCH ON ERROR
0062 165    MOVZWL W^TST$GQ_XMITIOSB+2,-(SP)      : GET SIZE OF MESSAGE
0067 166    PUSHAL W^TST$GB_XMITBUF              : GET ADDRESS OF MESSAGE BUFFER
006B 167    PUSHL #0                             : DENOTE A TRANSMIT
006D 168    MOVZBL W^TST$GB_DISPLAY,-(SP)        : GET MAXIMUM BYTES TO DISPLAY
0072 169    CALLS #4,W^TST$DISPLAY_MSG           : OUTPUT MESSAGE TO PRINT FILE
0077 170    INCL W^TST$GL_XMITDATA              : INCREMENT COUNTER
007B 171    INCL W^TST$GB_XMITBUF              : INCREMENT MESSAGE SEQUENCE NUMBER
007F 172    $QIO G @4(AP)                        : RE-ISSUE TRANSMIT DATA QIO
007F 173    INSQOE W^TST$QB_XMITDATA,-          :
0083 174    @TST$QB_QHEAD+4                      : QUEUE DATA AST
0088 175    $WAKE_S                               : WAKEUP MAINLINE FOR REQUEUE
0093 176
0093 177    CHECK_SS                             : CHECK STATUS CODE
0096 178 10$: RET                               : EXIT

```

TSTSDTSAST
V04-000

- DTS AST ROUTINES
TST\$XMITAST_DTS - TRANSMIT DATA MESSAGE

G 3

16-SEP-1984 01:26:41 VAX/VMS Macro V04-00
5-SEP-1984 00:22:24 [DTS DTR.SRC]DTSAST.MAR;1

Page 5
(4)

0000'CF 01F58023 8F DO 0097 179 20\$: MOVL #DTSS_BADDATLEN,W^TST\$GL_STATUS ;NOTE BAD DATA LEN
04 00A0 180 RET ; EXIT


```

00A1 182 .SBTTL TST$RECVAST_DTS - RECEIVE DATA MESSAGE AST ROUTINE
00000A1 183 .PSECT TST$CODE NOWRT
00A1 184
00A1 185 :++
00A1 186 : FUNCTIONAL DESCRIPTION:
00A1 187 :
00A1 188 : NONE
00A1 189 :
00A1 190 : CALLING SEQUENCE:
00A1 191 :
00A1 192 : CALL #5,TST$RECVAST_DTS (INVOKED BY VAX/VMS AS AN AST)
00A1 193 :
00A1 194 : INPUT PARAMETERS:
00A1 195 :
00A1 196 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
00A1 197 :
00A1 198 : IMPLICIT INPUTS:
00A1 199 :
00A1 200 : NONE
00A1 201 :
00A1 202 : OUTPUT PARAMETERS:
00A1 203 :
00A1 204 : NONE
00A1 205 :
00A1 206 : IMPLICIT OUTPUTS:
00A1 207 :
00A1 208 : NONE
00A1 209 :
00A1 210 : COMPLETION CODES:
00A1 211 :
00A1 212 : NONE
00A1 213 :
00A1 214 : SIDE EFFECTS:
00A1 215 :
00A1 216 : NONE
00A1 217 :
00A1 218 :--
0004 00A1 219
0004 00A1 220 .ENTRY TST$RECVAST_DTS,^M<R2> : ENTRY POINT
00A3 221 CHECK_IOSB W^TST$GQ_RECVIOSB : CHECK I/O STATUS CODE
00AB 222 BLBC R1,10$ : BRANCH ON FAILURE
00AE 223 CMPW R2,W^TST$GW_SIZE : IS MESSAGE CORRECT SIZE?
00B3 224 BNEQ 20$ : BRANCH ON ERROR
00B5 225 MOVZWL W^TST$GQ_RECVIOSB+2,-(SP) : GET SIZE OF MESSAGE
00BA 226 PUSHAL W^TST$GB_RECVBUF : GET ADDRESS OF MESSAGE BUFFER
00BE 227 PUSHL #1 : DENOTE A RECEIVE
00C0 228 MOVZBL W^TST$GB_DISPLAY,-(SP) : GET MAXIMUM BYTES TO DISPLAY
00C5 229 CALLS #4,W^TST$DISPLAY MSG : OUTPUT MESSAGE TO PRINT FILE
00CA 230 INCL W^TST$GL_RECVDATA : INCREMENT COUNTER
00CE 231 : $QIO G @4(AP) : RE-ISSUE RECEIVE DATA QIO
00CE 232 : IN$QOE W^TST$QB_RCVDATA,-
00D2 233 : @TST$QB_QHEAD+4 :
00D7 234 $WAKE_S : QUEUE DATA AST
00E2 235 CHECK_SS : WAKE MAINLINE TO REQUEUE READ
00E5 236 10$: RET : CHECK STATUS CODE
00E6 237 20$: MOVL #DTSS_BADDATLEN,W^TST$GL_STATUS : NOTE BAD LENGTH
00EF 238 RET : EXIT

```

```

00F0 240 .SBTTL TST$MAILAST_DTS - READ MAILBOX AST ROUTINE
000000F0 241 .PSECT TST$CODE NOWRT
00F0 242
00F0 243 :++
00F0 244 : FUNCTIONAL DESCRIPTION:
00F0 245 :
00F0 246 : NONE
00F0 247 :
00F0 248 : CALLING SEQUENCE:
00F0 249 :
00F0 250 : CALL #5,TST$MAILAST_DTS (INVOKED BY VAX/VMS AS AN AST)
00F0 251 :
00F0 252 : INPUT PARAMETERS:
00F0 253 :
00F0 254 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
00F0 255 :
00F0 256 : IMPLICIT INPUTS:
00F0 257 :
00F0 258 : NONE
00F0 259 :
00F0 260 : OUTPUT PARAMETERS:
00F0 261 :
00F0 262 : NONE
00F0 263 :
00F0 264 : IMPLICIT OUTPUTS:
00F0 265 :
00F0 266 : NONE
00F0 267 :
00F0 268 : COMPLETION CODES:
00F0 269 :
00F0 270 : NONE
00F0 271 :
00F0 272 : SIDE EFFECTS:
00F0 273 :
00F0 274 : NONE
00F0 275 :
00F0 276 :--
00C4 00F0 277
00C4 00F0 278 .ENTRY TST$MAILAST_DTS,^M<R2,R6,R7> : ENTRY POINT
00F2 279 CHECK_IOSB W^TST$GQ_MAILIOSB : CHECK I/O STATUS CODE
44 51 E9 00FA 280 BLBC R1,10$ : BRANCH ON FAILURE
FF00' 30 00FD 281 BSBW TST$EXAM_MAIL : EXAMINE THE MESSAGE
35 56 B1 0100 282 CMPW R6,#MSG$_INTMSG : IS IT AN INTERRUPT MESSAGE?
0000'CF 3D 12 0103 283 BNEQU 20$ : NO
0000'CF 67 91 0105 284 CMPB (R7),W^TST$GW_SIZE : IS MESSAGE CORRECT SIZE?
7E 73 12 010A 285 BNEQ 30$ : BRANCH ON ERROR
7E 87 9A 010C 286 MOVZBL (R7)+,-(SP) : GET SIZE OF MESSAGE
57 DD 010F 287 PUSHL R7 : GET ADDRESS OF MESSAGE BUFFER
01 DD 0111 288 PUSHL #1 : DENOTE A RECEIVE
7E 0000'CF 9A 0113 289 MOVZBL W^TST$GB_DISPLAY,-(SP) : GET MAXIMUM BYTES TO DISPLAY
0000'CF 04 FB 0118 290 CALLS #4,W^TST$DISPLAY MSG : OUTPUT MESSAGE TO PRINT FILE
0000'CF D6 011D 291 INCL W^TST$GL_RECVINTE : YES, INCREMENT COUNTER
0000'CF OE 0121 292 : $QIO G @4(AP) : RE-ISSUE READ MAILBOX QIO
00000004'FF 0125 293 INSQOE W^TST$QB_RCVMAIL,- :
0000'CF OE 012A 294 @TST$QB_QHEAD+4 : QUEUE ANOTHER READ
00000004'FF 012E 295 INSQUE W^TST$QB_XMTINT,- :
00000004'FF 012E 296 @TST$QB_QHEAD+4 : QUEUF ANOTHER WRITE

```

		04	0133	297	\$WAKE_S		;WAKE MAINLINE TO REQUEUE READ
			013E	298	CHECK_SS		; CHECK STATUS CODE
		04	0141	299	RET		; EXIT
01F5803B	8F	D0	0142	300	10\$: 20\$:	MOVL	#DTSS_BADMAIL,-
0000'CF	56		0148	301			W^TST\$GL_STATUS
		3C	014B	302	MOVZWL	R6,W^TST\$GL_FA0ARG	;GET TYPE OF MAIL
			0150	303	\$CANTIM_S		; CANCEL THE TIMER
			0159	304	CHECK_SS		; CHECK STATUS CODE
			015C	305	\$CANCEL_S	CHAN=W^TST\$GW_LINKCHAN	; CANCEL ALL PENDING LINK I/O REQUESTS
			0168	306	CHECK_SS		; CHECK STATUS CODE
0000'CF	01	90	016B	307	MOVB	#1,W^TST\$GB_ASTFLAGS	;NOTE END OF TEST
			0170	308	\$WAKE_S		;WAKE MAIN ROUTINE
			017B	309	CHECK_SS		; CHECK STATUS CODE
0000'CF	01F58023	8F	04	017E	310	RET	; EXIT
			D0	017F	311	30\$:	MOVL #DTSS_BADDATLEN,W^TST\$GL_STATUS
			04	0188	312	RET	; EXIT

```

0189 314 .SBTTL TST$INTEAST_DTS - TRANSMIT INTERRUPT MESSAGE AST ROUTINE
0000 0189 315 .PSECT TST$CODE NOWRT
0189 316
0189 317 :++
0189 318 : FUNCTIONAL DESCRIPTION:
0189 319 :
0189 320 : NONE
0189 321 :
0189 322 : CALLING SEQUENCE:
0189 323 :
0189 324 : CALL #5,TST$INTEAST_DTS (INVOKED BY VAX/VMS AS AN AST)
0189 325 :
0189 326 : INPUT PARAMETERS:
0189 327 :
0189 328 : 4(AP) ADDRESS OF QIO PARAMETER BLOCK
0189 329 :
0189 330 : IMPLICIT INPUTS:
0189 331 :
0189 332 : NONE
0189 333 :
0189 334 : OUTPUT PARAMETERS:
0189 335 :
0189 336 : NONE
0189 337 :
0189 338 : IMPLICIT OUTPUTS:
0189 339 :
0189 340 : NONE
0189 341 :
0189 342 : COMPLETION CODES:
0189 343 :
0189 344 : NONE
0189 345 :
0189 346 : SIDE EFFECTS:
0189 347 :
0189 348 : NONE
0189 349 :
0189 350 :--
0189 351 :
0004 0189 352 .ENTRY TST$INTEAST_DTS,^M<R2> ; ENTRY POINT
0000'8F B1 018B 353 CMPW #SS$ NOSOLICIT,-
0000'CF 018F 354 W^TST$GQ_INTEIOSB ;INT MSG MAY HAVE NOT BEEN REQUESTED
1A 12 0192 355 BNEQU 2$ ;IF NOT CONTINUE
0194 356 $SETIMR_S EFN=#10,DAYTIM=W^TST$GQ_NANOSEC
01A3 357 $WAITFR_S EFN=#10 ;WAIT A SECOND BEFORE RESENDING
2F 11 01AC 358 BRB 5$
01AE 359 2$:
01AE 360 CHECK_IOSB W^TST$GQ_INTEIOSB ; CHECK I/O STATUS CODE
0186 361 BLBC R1,10$ ; BRANCH ON FAILURE
0000'CF 42 51 E9 0189 362 CMPW R2,W^TST$GW_SIZE ; IS MESSAGE CORRECT SIZE?
52 B1 018E 363 BNEQ 20$ ; BRANCH ON ERROR
7E 0002'CF 3C 01C0 364 MOVZWL W^TST$GQ_INTEIOSB+2,-(SP) ; GET SIZE OF MESSAGE
0000'CF DF 01C5 365 PUSHAL W^TST$GB_INTEBUF ; GET ADDRESS OF MESSAGE BUFFER
00 DD 01C9 366 PUSHL #0 ; DENOTE A TRANSMIT
7E 0000'CF 9A 01CB 367 MOVZBL W^TST$GB_DISPLAY,-(SP) ; GET MAXIMUM BYTES TO DISPLAY
0000'CF 04 FB 01D0 368 CALLS #4,W^TST$DISPLAY MSG ; OUTPUT MESSAGE TO PRINT FILE
0000'CF D6 01D5 369 INCL W^TST$GL_XMITINTE ; INCREMENT COUNTER
0000'CF D6 01D9 370 INCL W^TST$GB_INTEBUF ; INCREMENT MESSAGE SEQUENCE NUMBER

```

```
01DD 371 ; $QIO_G @4(AP) ;RE_ISSUE TRANSMIT INTERRUPT QIO
01DD 372 5$:
0000'CF 91 01DD 373 CMPB W^TST$GB TYPE,-
03 01E1 374 #VAL_K_TYPE_ECHO ;WAS THIS AN ECHO TEST
17 13 01E2 375 BEQLU 10$ ;YES JUST EXIT,READ WILL REQUE
0000'CF 0E 01E4 376 INSQUE W^TST$QB_XMTINT,-
00000004'FF 01E8 377 @TST$QB_QHEAD+4 ;QUEUE DATA AST
01ED 378 $WAKE_S ;WAKE MAINLINE FOR REQUEUE
01F8 379 CHECK_SS ;CHECK STATUS CODE
04 01FB 380 10$: RET ;EXIT
0000'CF 01F58023 8F D0 01FC 381 20$: MOVL #DTSS_BADDATLEN,W^TST$GL_STATUS
04 0205 382 RET ;EXIT
0206 383 .END
```

TSTSDTSAST
Symbol table

- DTS AST ROUTINES

M 3

16-SEP-1984 01:26:41 VAX/VMS Macro V04-00
5-SEP-1984 00:22:24 [DTS DTR.SRC]DTSAST.MAR;1

```

$ST1 = 00000000
DTSS_BADDATLEN = 01F58023
DTSS_BADMAIL = 01F5803B
EFN_R_TIMER = 00000008
K_LIST_MEB = 00000000
MSG_INTMSG = 00000035
SA = 00000000 RG 02
SSS_NOSOLICIT ***** X 02
SYSS_CANCEL ***** GX 02
SYSS_CANTIM ***** GX 02
SYSS_SETIMR ***** GX 02
SYSS_WAITFR ***** GX 02
SYSS_WAKE ***** GX 02
TST$CHECK_IOSB ***** X 02
TST$CHECK_SS ***** X 02
TST$DISPLAY_MSG ***** X 02
TST$EXAM_MAIL ***** X 02
TST$GB_ASTFLAGS ***** X 02
TST$GB_DISPLAY ***** X 02
TST$GB_INTEBUF ***** X 02
TST$GB_RECVBUF ***** X 02
TST$GB_TYPE ***** X 02
TST$GB_XMITBUF ***** X 02
TST$GL_CLOCK ***** X 02
TST$GL_FAOARG ***** X 02
TST$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_MAILIOSB ***** X 02
TST$GQ_NANOSEC ***** X 02
TST$GQ_RECVIOSB ***** X 02
TST$GQ_XMITIOSB ***** X 02
TST$GW_LINKCHAN ***** X 02
TST$GW_MAILCHAN ***** X 02
TST$GW_SIZE ***** X 02
TST$INTEAST_DTS 00000189 RG 02
TST$MAILAST_DTS 000000F0 RG 02
TST$QB_QHEAD ***** X 02
TST$QB_RCVDATA ***** X 02
TST$QB_RCVMAIL ***** X 02
TST$QB_XMTDATA ***** X 02
TST$QB_XMTINT ***** X 02
TST$RECVAST_DTS 000000A1 RG 02
TST$TIMER_DTS 00000000 RG 02
TST$XMITAST_DTS 0000004E RG 02
VAL_K_BACK_NO = 00000000
VAL_K_DISP_NO = 00000000
VAL_K_FLOW_MESS = 00000002
VAL_K_NAK_NO = 00000000
VAL_K_PRIQ_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_ECHO = 00000003
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
\$AB\$\$	00000000 (0.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
TST\$CODE	00000206 (518.)	02 (2.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.09	00:00:00.85
Command processing	124	00:00:00.59	00:00:03.51
Pass 1	211	00:00:05.10	00:00:15.86
Symbol table sort	0	00:00:00.18	00:00:00.45
Pass 2	82	00:00:01.38	00:00:03.80
Symbol table output	6	00:00:00.10	00:00:00.17
Psect synopsis output	2	00:00:00.03	00:00:00.05
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	463	00:00:07.47	00:00:24.77

The working set limit was 1200 pages.
22891 bytes (45 pages) of virtual memory were used to buffer the intermediate code.
There were 20 pages of symbol table space allocated to hold 199 non-local and 12 local symbols.
445 source lines were read in Pass 1, producing 30 object records in Pass 2.
29 pages of virtual memory were used to define 25 macros.

! Macro library statistics !

Macro library name	Macros defined
_\$255\$DUA28:[DTS DTR.OBJ]DTS DTR.MLB;1	5
-\$255\$DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	19

347 GETS were required to define 19 macros.

There were no errors, warnings or information messages.

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

