```
 LOC       OBJECT CODE       ADDR1     ADDR2    STMT

                                              2 ********************************************************************
                                              3 *
                                              4 *                      TRTE basic instruction tests
                                              5 *
                                              6 ********************************************************************
                                              7 *
                                              8 *   This program tests proper functioning of the TRTE instructions.
                                              9 *   Specification Exceptions are not tested.
                                             10 *
                                             11 *   PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch
                                             12 *   obvious coding errors.  None of the tests are thorough.  They are
                                             13 *   NOT designed to test all aspects of the instruction.
                                             14 *
                                             15 *   NOTE: This test is based on the CLCL-et-al Test but modified to
                                             16 *         only test the TRTE instruction.  --  James Wekel October 2022
                                             17 *
                                             18 ********************************************************************
                                             19 *
                                             20 *   Example Hercules Testcase:
                                             21 *
                                             22 *
                                             23 *         *Testcase TRTE-01-basic (Test TRTE instructions)
                                             24 *
                                             25 *         # ------------------------------------------------------------
                                             26 *         #  This tests only the basic function of the TRTE instruction.
                                             27 *         #  Specification Exceptions are NOT tested.
                                             28 *         # ------------------------------------------------------------
                                             29 *
                                             30 *         mainsize    16
                                             31 *         numcpu      1
                                             32 *         sysclear
                                             33 *         archlvl     z/Arch
                                             34 *         loadcore    "$(testpath)/TRTE-01-basic.core" 0x0
                                             35 *         runtest     1
                                             36 *         *Done
                                             37 *
                                             38 *
                                             39 ********************************************************************


                          00000000  000E3F59     41 TRTE1TST START 0
00000000                  00000000                 42          USING TRTE1TST,R0           Low core addressability


00000000                  00000000  000001A0       44          ORG     TRTE1TST+X'1A0'     z/Architecure RESTART PSW
000001A0  00000001 80000000                         45          DC      X'0000000180000000'
000001A8  00000000 00000200                         46          DC      AD(BEGIN)


000001B0                  000001B0  000001D0       48          ORG     TRTE1TST+X'1D0'     z/Architecure PROGRAM CHECK PSW
000001D0  00020001 80000000                         49          DC      X'0002000180000000'
000001D8  00000000 0000DEAD                         50          DC      AD(X'DEAD')


000001E0                  000001E0  00000200       52          ORG     TRTE1TST+X'200'     Start of actual test program...
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

                                                  54 ****************************************************************************
                                                  55 *              The actual "TRTE1TST" program itself...
                                                  56 ****************************************************************************
                                                  57 *
                                                  58 *   Architecture Mode: z/Arch
                                                  59 *   Register Usage:
                                                  60 *
                                                  61 *     R0          (work)
                                                  62 *     R1          TRTE - Function-Code Table Address
                                                  63 *     R2          TRTE - First-Operand Address
                                                  64 *     R3          TRTE - First-Operand Length
                                                  65 *     R4          TRTE - Function-Code
                                                  66 *     R5          Testing control table - base current entry
                                                  67 *     R6-R7       (work)
                                                  68 *     R8          First base register
                                                  69 *     R9          Second base register
                                                  70 *     R10-R13     (work)
                                                  71 *     R14         Subroutine call
                                                  72 *     R15         Secondary Subroutine call or work
                                                  73 *
                                                  74 ****************************************************************************
00000200                  00000200                76          USING  BEGIN,R8           FIRST Base Register
00000200                  00001200                77          USING  BEGIN+4096,R9      SECOND Base Register

00000200   0580                                   79 BEGIN    BALR   R8,0               Initalize FIRST base register
00000202   0680                                   80          BCTR   R8,0               Initalize FIRST base register
00000204   0680                                   81          BCTR   R8,0               Initalize FIRST base register

00000206   4190 8800                00000800      83          LA     R9,2048(,R8)       Initalize SECOND base register
0000020A   4190 9800                00000800      84          LA     R9,2048(,R9)       Initalize SECOND base register


                                                  86 ****************************************************************************
                                                  87 *         Run the test(s)...
                                                  88 ****************************************************************************

0000020E   45E0 8302                00000502      90          BAL    R14,TEST01         Test TRTE instruction


                                                  92 ****************************************************************************
                                                  93 *         Test for normal or unexpected test completion...
                                                  94 ****************************************************************************

00000212   95FC 8200                00000400      96          CLI    TESTNUM,X'FC'      Did we end on expected test?
00000216   4770 83F0                000005F0      97          BNE    FAILTEST           No?! Then FAIL the test!

0000021A   9503 8201                00000401      99          CLI    SUBTEST,X'03'      Did we end on expected SUB-test?
0000021E   4770 83F0                000005F0     100          BNE    FAILTEST           No?! Then FAIL the test!

00000222   47F0 83D8                000005D8     102          B      EOJ                Yes, then normal completion!
```

```
  LOC       OBJECT CODE      ADDR1     ADDR2     STMT

                                                 104 ****************************************************************************
                                                 105 *          Fixed test storage locations ...
                                                 106 ****************************************************************************

00000226                      00000226  00000400  108            ORG     TRTE1TST+X'400'


00000400                                          110 TESTADDR DS      0D              Where test/subtest numbers will go
00000400  99                                      111 TESTNUM  DC      X'99'           Test number of active test
00000401  99                                      112 SUBTEST  DC      X'99'           Active test sub-test number


00000402                      00000402  00000502  114            ORG     *+X'100'
```

```
  LOC       OBJECT CODE      ADDR1      ADDR2     STMT

                                                  116 ****************************************************************
                                                  117 *         TEST01                      Test TRTE instruction
                                                  118 ****************************************************************
00000502  9201 8200                    00000400   120 TEST01    MVI    TESTNUM,X'01'

00000506  4150 83F8                    000005F8   122           LA     R5,TRTECTL           Point R5 --> testing control table
0000050A                   00000000               123           USING  TRTETEST,R5          What each table entry looks like

                           0000050A  00000001     125 TST1LOOP EQU    *
0000050A  4360 5000                    00000000   126           IC     R6,TNUM              Set test number
0000050E  4260 8200                    00000400   127           STC    R6,TESTNUM
                                                  128 *
                                                  129 **        Initialize operand data  (move data to testing address)
                                                  130 *
00000512  58A0 5018                    00000018   131           L      R10,OP1WHERE         Where to move operand-1 data to
00000516  58B0 5008                    00000008   132           L      R11,OP1LEN           Get operand-1 length
0000051A  50B0 501C                    0000001C   133           ST     R11,OP1WLEN          and save for later
0000051E  5860 5004                    00000004   134           L      R6,OP1DATA           Where op1 data is right now
00000522  5870 5008                    00000008   135           L      R7,OP1LEN            How much of it there is
00000526  0EA6                                    136           MVCL   R10,R6
                                                  137 *
00000528  58A0 5014                    00000014   138           L      R10,OP2WHERE         Where to move operand-2 data to
0000052C  58B0 5010                    00000010   139           L      R11,OP2LEN           How much of it there is
00000530  5860 500C                    0000000C   140           L      R6,OP2DATA           Where op2 data is right now
00000534  5870 5010                    00000010   141           L      R7,OP2LEN            How much of it there is
00000538  0EA6                                    142           MVCL   R10,R6


                                                  144 *
                                                  145 **        Execute TRTE instruction and check for expected condition code
                                                  146 *
0000053A  9814 5014                    00000014   147           LM     R1,R4,OPSWHERE       get TRTE input

0000053E  1B77                                    149           SR     R7,R7                get M3 bits for TRTE
00000540  4370 5003                    00000003   150           IC     R7,M3                (M3)
00000544  4270 8356                    00000556   151           STC    R7,TRTEMOD+2         DYNAMICALLY MODIFIED CODE

00000548  58B0 5024                    00000024   153           L      R11,FAILMASK         (failure CC)
0000054C  89B0 0004                    00000004   154           SLL    R11,4                (shift to BC instr CC position)

00000550  9200 8201                    00000401   156           MVI    SUBTEST,X'00'        (primary TRT)
00000554  B9BF 0024                               157 TRTEMOD   TRTE   R2,R4,0              Start with TRTE and m3=0

00000558  9014 83A8                    000005A8   159           STM    R1,R4,SAVETRT        (save R1/R4 results)
0000055C  44B0 839E                    0000059E   160           EX     R11,TRTEBC           fail if...
00000560  4710 8354                    00000554   161           BC     B'0001',TRTEMOD      cc=3, not finished
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   163 *
                                                   164 **           Verify R2,R3,R4 contain (or still contain!) expected values
                                                   165 *
00000564   98AC 5028                    00000028   166              LM     R10,R12,ENDREGS

00000568   9201 8201                    00000401   168              MVI    SUBTEST,X'01'      (R2 result - op1 found addr)
0000056C   152A                                    169              CLR    R2,R10             R2 correct?
0000056E   4770 8398                    00000598   170              BNE    TRTEFAIL           No, FAILTEST!

00000572   9202 8201                    00000401   172              MVI    SUBTEST,X'02'      (R3 result - op1 remaining len)
00000576   153B                                    173              CLR    R3,R11             R3 correct
00000578   4770 8398                    00000598   174              BNE    TRTEFAIL           No, FAILTEST!

0000057C   9203 8201                    00000401   176              MVI    SUBTEST,X'03'      (R4 result - FC code)
00000580   154C                                    177              CLR    R4,R12             R4 correct
00000582   4770 8398                    00000598   178              BNE    TRTEFAIL           No, FAILTEST!

00000586   4150 5034                    00000034   180              LA     R5,TRTENEXT        Go on to next table entry
0000058A   D503 83F4 5000    000005F4   00000000   181              CLC    =F'0',0(R5)        End of table?
00000590   4770 830A                    0000050A   182              BNE    TST1LOOP           No, loop...
00000594   47F0 839C                    0000059C   183              B      TRTEDONE           Done! (success!)

00000598   41E0 83F0                    000005F0   185 TRTEFAIL LA  R14,FAILTEST              Unexpected results!
0000059C   07FE                                    186 TRTEDONE BR  R14                       Return to caller or FAILTEST

0000059E   4700 8398                    00000598   188 TRTEBC   BC  0,TRTEFAIL                (fail if unexpected condition code)

000005A8   00000000 00000000                       190 SAVETRT  DC  4D'0'                     (saved R1/R4 from TRT results)

000005C8                                           192              DROP  R5
000005C8                                           193              DROP  R15
000005C8                     00000200              194              USING BEGIN,R8
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   196 ****************************************************************************
                                                   197 *        Normal completion or Abnormal termination PSWs
                                                   198 ****************************************************************************


000005C8    00020001 80000000                      200 EOJPSW    DC     0D'0',X'0002000180000000',AD(0)

000005D8    B2B2 83C8                   000005C8    202 EOJ       LPSWE EOJPSW                 Normal completion


000005E0    00020001 80000000                      204 FAILPSW   DC     0D'0',X'0002000180000000',AD(X'BAD')

000005F0    B2B2 83E0                   000005E0    206 FAILTEST LPSWE FAILPSW                 Abnormal termination



                                                   208 ****************************************************************************
                                                   209 *        Working Storage
                                                   210 ****************************************************************************

000005F4                                           212           LTORG ,                      Literals pool
000005F4    00000000                               213                 =F'0'


            00000400  00000001                     215 K         EQU    1024                  One KB
            00001000  00000001                     216 PAGE      EQU    (4*K)                 Size of one page
            00010000  00000001                     217 K64       EQU    (64*K)                64 KB
            00100000  00000001                     218 MB        EQU    (K*K)                  1 MB
```

```
  LOC        OBJECT CODE      ADDR1      ADDR2      STMT

                           00000000  000E3F59   220 TRTE1TST CSECT ,


                                                 222 ****************************************************************************
                                                 223 *         TRTETEST DSECT
                                                 224 ****************************************************************************


                                                 226 TRTETEST DSECT ,
00000000  00                                     227 TNUM     DC    X'00'          TRTE table Number
00000001  00                                     228          DC    X'00'
00000002  00                                     229          DC    X'00'
00000003  00                                     230 M3       DC    X'00'          M3 byte stored into TRTE instruction


00000004  00000000                               232 OP1DATA  DC    A(0)           Pointer to Operand-1 data
00000008  00000000                               233 OP1LEN   DC    F'0'           How much data is there - 1
0000000C  00000000                               234 OP2DATA  DC    A(0)           Pointer to FC table data
00000010  00000000                               235 OP2LEN   DC    F'0'           How much data is there - FC Table


                           00000014  00000001   237 OPSWHERE EQU   *
00000014  00000000                               238 OP2WHERE DC    A(0)           Where FC Table  data should be placed
00000018  00000000                               239 OP1WHERE DC    A(0)           Where Operand-1 data should be placed
0000001C  00000000                               240 OP1WLEN  DC    F'0'           How much data is there - 1
00000020  00000000                               241          DC    A(0)           pollute - found FC


00000024  00000000                               243 FAILMASK DC    A(0)           Failure Branch on Condition mask


                                                 245 *                             Ending register values
00000028  00000000                               246 ENDREGS  DC    A(0)              Operand 1 address
0000002C  00000000                               247          DC    A(0)              Operand 1 length
00000030  00000000                               248          DC    A(0)              Function Code


                           00000034  00000001   250 TRTENEXT EQU   *              Start of next table entry...



                           AABBCCDD  00000001   252 REG2PATT EQU   X'AABBCCDD'     Polluted Register pattern
                           000000DD  00000001   253 REG2LOW  EQU        X'DD'      (last byte above)
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    255 ****************************************************************
                                                    256 *        TRTE Testing Control tables    (ref: TRTETEST DSECT)
                                                    257 ****************************************************************
                           00000000  000E3F59       259 TRTE1TST CSECT ,
                                                    260          PRINT DATA
000005F8                                             261 TRTECTL  DC    0A(0)     start of table

                                                    263 ****************************************************************
                                                    264 *        tests with    M3: A=0,F=0,L=0, reserved=0     (0)
                                                    265 *                       FC Table = 1 byte
                                                    266 ****************************************************************

000005F8                                             268 M0T1     DS    0F
000005F8  01                                         269          DC    X'01'                      Test Num
000005F9  0000                                       270          DC    X'00',X'00'
000005FB  00                                         271          DC    X'00'                      M3: A=0,F=0,L=0
000005FC  00001438 00000001                          272          DC    A(TRTOP10),A(001)          Source - Op 1 & length
00000604  00003138 00000100                          273          DC    A(TRTOP20),A(256)          Source - FC Table & length
                                                    274 *                                          Target -
0000060C  00110000 00210000                          275          DC    A(1*MB+(1*K64)),A(2*MB+(1*K64)),A(0)  FC, Op1, Op1L
00000614  00000000
00000618  AABBCCDD                                   276          DC    A(REG2PATT)
0000061C  00000007                                   277          DC    A(7) CC0
00000620  00210001 00000000                          278          DC    A(2*MB+(1*K64)+001),A(000),A(0)
00000628  00000000

0000062C                                             280 M0T2     DS    0F
0000062C  02                                         281          DC    X'02'                      Test Num
0000062D  0000                                       282          DC    X'00',X'00'
0000062F  00                                         283          DC    X'00'                      M3: A=0,F=0,L=0
00000630  00001438 00000002                          284          DC    A(TRTOP10),A(002)          Source - Op 1 & length
00000638  00003138 00000100                          285          DC    A(TRTOP20),A(256)          Source - FC Table & length
                                                    286 *                                          Target -
00000640  00120000 00220000                          287          DC    A(MB+(2*K64)),A(2*MB+(2*K64)),A(0)  FC, Op1, Op1L
00000648  00000000
0000064C  AABBCCDD                                   288          DC    A(REG2PATT)
00000650  00000007                                   289          DC    A(7) CC0
00000654  00220002 00000000                          290          DC    A(2*MB+(2*K64)+002),A(000),A(0)
0000065C  00000000

00000660                                             292 M0T3     DS    0F
00000660  03                                         293          DC    X'03'                      Test Num
00000661  0000                                       294          DC    X'00',X'00'
00000663  00                                         295          DC    X'00'                      M3: A=0,F=0,L=0
00000664  00001438 00000004                          296          DC    A(TRTOP10),A(004)          Source - Op 1 & length
0000066C  00003138 00000100                          297          DC    A(TRTOP20),A(256)          Source - FC Table & length
                                                    298 *                                          Target -
00000674  00130000 00230000                          299          DC    A(MB+(3*K64)),A(2*MB+(3*K64)),A(0)  FC, Op1, Op1L
0000067C  00000000
00000680  AABBCCDD                                   300          DC    A(REG2PATT)
00000684  00000007                                   301          DC    A(7) CC0
00000688  00230004 00000000                          302          DC    A(2*MB+(3*K64)+004),A(000),A(0)
00000690  00000000
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00000694                                          304 M0T4      DS     0F
00000694   04                                     305          DC     X'04'                            Test Num
00000695   0000                                   306          DC     X'00',X'00'
00000697   00                                     307          DC     X'00'                            M3: A=0,F=0,L=0
00000698   00001438 00000008                      308          DC     A(TRTOP10),A(008)                Source - Op 1 & length
000006A0   00003138 00000100                      309          DC     A(TRTOP20),A(256)                Source - FC Table & length
                                                  310 *                                                Target -
000006A8   00140000 00240000                      311          DC     A(MB+(4*K64)),A(2*MB+(4*K64)),A(0)  FC, Op1, Op1L
000006B0   00000000
000006B4   AABBCCDD                                312          DC     A(REG2PATT)
000006B8   00000007                                313          DC     A(7) CC0
000006BC   00240008 00000000                       314          DC     A(2*MB+(4*K64)+008),A(000),A(0)
000006C4   00000000


000006C8                                          316 M0T5      DS     0F
000006C8   05                                     317          DC     X'05'                            Test Num
000006C9   0000                                   318          DC     X'00',X'00'
000006CB   00                                     319          DC     X'00'                            M3: A=0,F=0,L=0
000006CC   00001438 00000100                      320          DC     A(TRTOP10),A(256)                Source - Op 1 & length
000006D4   00003138 00000100                      321          DC     A(TRTOP20),A(256)                Source - FC Table & length
                                                  322 *                                                Target -
000006DC   00150000 00250000                      323          DC     A(MB+(5*K64)),A(2*MB+(5*K64)),A(0)  FC, Op1, Op1L
000006E4   00000000
000006E8   AABBCCDD                                324          DC     A(REG2PATT)
000006EC   00000007                                325          DC     A(7) CC0
000006F0   00250100 00000000                       326          DC     A(2*MB+(5*K64)+256),A(000),A(0)
000006F8   00000000


000006FC                                          328 M0T6      DS     0F
000006FC   06                                     329          DC     X'06'                            Test Num
000006FD   0000                                   330          DC     X'00',X'00'
000006FF   00                                     331          DC     X'00'                            M3: A=0,F=0,L=0
00000700   00001538 00000100                      332          DC     A(TRTOP111),A(256)               Source - Op 1 & length
00000708   00023238 00000100                      333          DC     A(TRTOP211),A(256)               Source - FC Table & length
                                                  334 *                                                Target -
00000710   0015FFE0 0025FFF4                      335          DC     A(MB+(6*K64)-32),A(2*MB+(6*K64)-12),A(0)  FC, Op1, Op1L
00000718   00000000
0000071C   AABBCCDD                                336          DC     A(REG2PATT)
00000720   0000000A                                337          DC     A(10) CC1 or CC3
00000724   00260005 000000EF                       338          DC     A(2*MB+(6*K64)-12+X'11'),A(256-X'11'),XL4'11'
0000072C   00000011
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00000730                                         340 M0T7     DS      0F
00000730   07                                    341         DC      X'07'                       Test Num
00000731   0000                                  342         DC      X'00',X'00'
00000733   00                                    343         DC      X'00'                       M3: A=0,F=0,L=0
00000734   00001638 00000100                     344         DC      A(TRTOP1F0),A(256)          Source - Op 1 & length
0000073C   00023338 00000100                     345         DC      A(TRTOP2F0),A(256)          Source - FC Table & length
                                                 346 *                                           Target -
00000744   00170000 0026FFF4                     347         DC      A(MB+(7*K64)),A(2*MB+(7*K64)-12),A(0)    FC, Op1, Op1L
0000074C   00000000
00000750   AABBCCDD                              348         DC      A(REG2PATT)
00000754   0000000A                              349         DC      A(10) CC1 or CC3
00000758   002700F3 00000001                     350         DC      A(2*MB+(7*K64)-12+255),A(256-255),XL4'F0'
00000760   000000F0


00000764                                         352 M0T8     DS      0F
00000764   08                                    353         DC      X'08'                       Test Num
00000765   0000                                  354         DC      X'00',X'00'
00000767   00                                    355         DC      X'00'                       M3: A=0,F=0,L=0
00000768   00001538 00000100                     356         DC      A(TRTOP111),A(256)          Source - Op 1 & length
00000770   00023238 00000100                     357         DC      A(TRTOP211),A(256)          Source - FC Table & length
                                                 358 *                                           Target -
00000778   0017FFE0 00280000                     359         DC      A(MB+(8*K64)-32),A(2*MB+(8*K64)),A(0)  FC, Op1, Op1L
00000780   00000000
00000784   AABBCCDD                              360         DC      A(REG2PATT)
00000788   0000000B                              361         DC      A(11) CC1
0000078C   00280011 000000EF                     362         DC      A(2*MB+(8*K64)+X'11'),A(256-X'11'),XL4'11'
00000794   00000011


00000798                                         364 M0T9     DS      0F
00000798   09                                    365         DC      X'09'                       Test Num
00000799   0000                                  366         DC      X'00',X'00'
0000079B   00                                    367         DC      X'00'                       M3: A=0,F=0,L=0
0000079C   00001938 00000800                     368         DC      A(TRTO1L0),A(2048)          Source - Op 1 & length
000007A4   00003138 00000100                     369         DC      A(TRTOP20),A(256)           Source - FC Table & length
                                                 370 *                                           Target -
000007AC   00190000 00290000                     371         DC      A(MB+(9*K64)),A(2*MB+(9*K64)),A(0)  FC, Op1, Op1L
000007B4   00000000
000007B8   AABBCCDD                              372         DC      A(REG2PATT)
000007BC   00000007                              373         DC      A(7) CC0
000007C0   00290800 00000000                     374         DC      A(2*MB+(9*K64)+2048),A(000),A(0)
000007C8   00000000
```

```
  LOC       OBJECT CODE      ADDR1     ADDR2     STMT

000007CC                                         376 M0T10     DS    0F
000007CC  0A                                     377          DC    X'0A'                     Test Num
000007CD  0000                                   378          DC    X'00',X'00'
000007CF  00                                     379          DC    X'00'                     M3: A=0,F=0,L=0
000007D0  00002138 00000800                      380          DC    A(TRTO1L11),A(2048)       Source - Op 1 & length
000007D8  00023238 00000100                      381          DC    A(TRTOP211),A(256)        Source - FC Table & length
                                                 382 *                                        Target -
000007E0  001A0000 0029FF38                      383          DC    A(MB+(10*K64)),A(2*MB+(10*K64)-200),A(0)  FC, Op1, Op1L
000007E8  00000000
000007EC  AABBCCDD                               384          DC    A(REG2PATT)
000007F0  0000000A                               385          DC    A(10) CC1 or CC3
000007F4  002A0339 000003FF                      386          DC    A(2*MB+(10*K64)-200+(4*256)+1),A(1023),Xl4'11'
000007FC  00000011


00000800                                         388 M0T11     DS    0F
00000800  0B                                     389          DC    X'0B'                     Test Num
00000801  0000                                   390          DC    X'00',X'00'
00000803  00                                     391          DC    X'00'                     M3: A=0,F=0,L=0
00000804  00002938 00000800                      392          DC    A(TRTO1LF0),A(2048)       Source - Op 1 & length
0000080C  00023338 00000100                      393          DC    A(TRTOP2F0),A(256)        Source - FC Table & length
                                                 394 *                                        Target -
00000814  001AFFC0 002B0000                      395          DC    A(MB+(11*K64)-64),A(2*MB+(11*K64)),A(0) FC, Op1, Op1L
0000081C  00000000
00000820  AABBCCDD                               396          DC    A(REG2PATT)
00000824  0000000B                               397          DC    A(11) CC1
00000828  002B07FF 00000001                      398          DC    A(2*MB+(11*K64)+2048-1),A(1),Xl4'F0'
00000830  000000F0
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

                                                  400 ****************************************************************
                                                  401 *         tests with   M3: A=0,F=1,L=0, reserved=0     (4)
                                                  402 *                          FC Table = 2 bytes
                                                  403 ****************************************************************

00000834                                          405 M4T1     DS      0F
00000834   41                                     406          DC      X'41'                          Test Num
00000835   0000                                   407          DC      X'00',X'00'
00000837   40                                     408          DC      X'40'                          M3: A=0,F=1,L=0
00000838   00001438 00000001                      409          DC      A(TRTOP10),A(001)              Source - Op 1 & length
00000840   00003138 00000200                      410          DC      A(TRTOP20),A(512)              Source - FC Table & length
                                                  411 *                                              Target -
00000848   00310000 00410000                      412          DC      A(3*MB+(1*K64)),A(4*MB+(1*K64)),A(0)  FC, Op1, Op1L
00000850   00000000
00000854   AABBCCDD                               413          DC      A(REG2PATT)
00000858   00000007                               414          DC      A(7) CC0
0000085C   00410001 00000000                      415          DC      A(4*MB+(1*K64)+001),A(000),A(0)
00000864   00000000


00000868                                          417 M4T2     DS      0F
00000868   42                                     418          DC      X'42'                          Test Num
00000869   0000                                   419          DC      X'00',X'00'
0000086B   40                                     420          DC      X'40'                          M3: A=0,F=1,L=0
0000086C   00001438 00000002                      421          DC      A(TRTOP10),A(002)              Source - Op 1 & length
00000874   00003138 00000200                      422          DC      A(TRTOP20),A(512)              Source - FC Table & length
                                                  423 *                                              Target -
0000087C   00320000 00420000                      424          DC      A(3*MB+(2*K64)),A(4*MB+(2*K64)),A(0)  FC, Op1, Op1L
00000884   00000000
00000888   AABBCCDD                               425          DC      A(REG2PATT)
0000088C   00000007                               426          DC      A(7) CC0
00000890   00420002 00000000                      427          DC      A(4*MB+(2*K64)+002),A(000),A(0)
00000898   00000000


0000089C                                          429 M4T3     DS      0F
0000089C   43                                     430          DC      X'43'                          Test Num
0000089D   0000                                   431          DC      X'00',X'00'
0000089F   40                                     432          DC      X'40'                          M3: A=0,F=1,L=0
000008A0   00001438 00000004                      433          DC      A(TRTOP10),A(004)              Source - Op 1 & length
000008A8   00003138 00000200                      434          DC      A(TRTOP20),A(512)              Source - FC Table & length
                                                  435 *                                              Target -
000008B0   00340000 00440000                      436          DC      A(3*MB+(4*K64)),A(4*MB+(4*K64)),A(0)  FC, Op1, Op1L
000008B8   00000000
000008BC   AABBCCDD                               437          DC      A(REG2PATT)
000008C0   00000007                               438          DC      A(7) CC0
000008C4   00440004 00000000                      439          DC      A(4*MB+(4*K64)+004),A(000),A(0)
000008CC   00000000
```

```
  LOC         OBJECT CODE      ADDR1     ADDR2     STMT

000008D0                                           441 M4T4     DS     0F
000008D0  44                                       442         DC     X'44'                    Test Num
000008D1  0000                                     443         DC     X'00',X'00'
000008D3  40                                       444         DC     X'40'                    M3: A=0,F=1,L=0
000008D4  00001438 00000008                        445         DC     A(TRTOP10),A(008)        Source - Op 1 & length
000008DC  00003138 00000200                        446         DC     A(TRTOP20),A(512)        Source - FC Table & length
                                                   447 *                                       Target -
000008E4  00340000 00440000                        448         DC     A(3*MB+(4*K64)),A(4*MB+(4*K64)),A(0)  FC, Op1, Op1L
000008EC  00000000
000008F0  AABBCCDD                                  449         DC     A(REG2PATT)
000008F4  00000007                                  450         DC     A(7) CC0
000008F8  00440008 00000000                        451         DC     A(4*MB+(4*K64)+008),A(000),A(0)
00000900  00000000


00000904                                           453 M4T5     DS     0F
00000904  45                                        454         DC     X'45'                    Test Num
00000905  0000                                      455         DC     X'00',X'00'
00000907  40                                        456         DC     X'40'                    M3: A=0,F=1,L=0
00000908  00001438 00000100                         457         DC     A(TRTOP10),A(256)        Source - Op 1 & length
00000910  00003138 00000200                         458         DC     A(TRTOP20),A(512)        Source - FC Table & length
                                                   459 *                                       Target -
00000918  00350000 00450000                         460         DC     A(3*MB+(5*K64)),A(4*MB+(5*K64)),A(0)   FC, Op1, Op1L
00000920  00000000
00000924  AABBCCDD                                   461         DC     A(REG2PATT)
00000928  00000007                                   462         DC     A(7) CC0
0000092C  00450100 00000000                          463         DC     A(4*MB+(5*K64)+256),A(000),A(0)
00000934  00000000


00000938                                           465 M4T6     DS     0F
00000938  46                                        466         DC     X'46'                    Test Num
00000939  0000                                      467         DC     X'00',X'00'
0000093B  40                                        468         DC     X'40'                    M3: A=0,F=1,L=0
0000093C  00001538 00000100                         469         DC     A(TRTOP111),A(256)       Source - Op 1 & length
00000944  00023438 00000200                         470         DC     A(TRTOP411),A(512)       Source - FC Table & length
                                                   471 *                                       Target -
0000094C  0035FFE0 0045FFF4                         472         DC     A(3*MB+(6*K64)-32),A(4*MB+(6*K64)-12),A(0) FC, Op1, Op1L
00000954  00000000
00000958  AABBCCDD                                   473         DC     A(REG2PATT)
0000095C  0000000A                                   474         DC     A(10) CC1 or CC3
00000960  00460005 000000EF                          475         DC     A(4*MB+(6*K64)-12+X'11'),A(256-X'11'),XL4'11'
00000968  00000011
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000096C                                           477 M4T7     DS     0F
0000096C    47                                     478         DC     X'47'                         Test Num
0000096D    0000                                   479         DC     X'00',X'00'
0000096F    40                                     480         DC     X'40'                         M3: A=0,F=1,L=0
00000970    00001638 00000100                      481         DC     A(TRTOP1F0),A(256)            Source - Op 1 & length
00000978    00023638 00000200                      482         DC     A(TRTOP4F0),A(512)            Source - FC Table & length
                                                   483 *                                           Target -
00000980    00370000 0046FFF4                      484         DC     A(3*MB+(7*K64)),A(4*MB+(7*K64)-12),A(0) FC, Op1, Op1L
00000988    00000000
0000098C    AABBCCDD                               485         DC     A(REG2PATT)
00000990    0000000A                               486         DC     A(10) CC1 or CC3
00000994    004700F3 00000001                      487         DC     A(4*MB+(7*K64)-12+255),A(256-255),XL4'F0'
0000099C    000000F0


000009A0                                           489 M4T8     DS     0F
000009A0    48                                     490         DC     X'48'                         Test Num
000009A1    0000                                   491         DC     X'00',X'00'
000009A3    40                                     492         DC     X'40'                         M3: A=0,F=1,L=0
000009A4    00001538 00000100                      493         DC     A(TRTOP111),A(256)            Source - Op 1 & length
000009AC    00023438 00000200                      494         DC     A(TRTOP411),A(512)            Source - FC Table & length
                                                   495 *                                           Target -
000009B4    0037FFE0 00480000                      496         DC     A(3*MB+(8*K64)-32),A(4*MB+(8*K64)),A(0) FC, Op1, Op1L
000009BC    00000000
000009C0    AABBCCDD                               497         DC     A(REG2PATT)
000009C4    0000000B                               498         DC     A(11) CC1
000009C8    00480011 000000EF                      499         DC     A(4*MB+(8*K64)+X'11'),A(256-X'11'),XL4'11'
000009D0    00000011


000009D4                                           501 M4T9     DS     0F
000009D4    49                                     502         DC     X'49'                         Test Num
000009D5    0000                                   503         DC     X'00',X'00'
000009D7    40                                     504         DC     X'40'                         M3: A=0,F=1,L=0
000009D8    00001938 00000800                      505         DC     A(TRTO1L0),A(2048)            Source - Op 1 & length
000009E0    00003138 00000200                      506         DC     A(TRTOP20),A(512)             Source - FC Table & length
                                                   507 *                                           Target -
000009E8    00390000 00490000                      508         DC     A(3*MB+(9*K64)),A(4*MB+(9*K64)),A(0) FC, Op1, Op1L
000009F0    00000000
000009F4    AABBCCDD                               509         DC     A(REG2PATT)
000009F8    00000007                               510         DC     A(7) CC0
000009FC    00490800 00000000                      511         DC     A(4*MB+(9*K64)+2048),A(000),A(0)
00000A04    00000000
```

```
  LOC        OBJECT CODE        ADDR1     ADDR2     STMT

00000A08                                           513 M4T10    DS    0F
00000A08    4A                                     514         DC    X'4A'                        Test Num
00000A09    0000                                   515         DC    X'00',X'00'
00000A0B    40                                     516         DC    X'40'                        M3: A=0,F=1,L=0
00000A0C    00002138 00000800                      517         DC    A(TRTO1L11),A(2048)          Source - Op 1 & length
00000A14    00023438 00000200                      518         DC    A(TRTOP411),A(512)           Source - FC Table & length
                                                   519 *                                         Target -
00000A1C    003A0000 0049FF38                      520         DC    A(3*MB+(10*K64)),A(4*MB+(10*K64)-200),A(0) FC, Op1, Op1L
00000A24    00000000
00000A28    AABBCCDD                               521         DC    A(REG2PATT)
00000A2C    0000000A                               522         DC    A(10) CC1 or CC3
00000A30    004A0339 000003FF                      523         DC    A(4*MB+(10*K64)-200+(4*256)+1),A(1023),XL4'11'
00000A38    00000011


00000A3C                                           525 M4T11    DS    0F
00000A3C    4B                                     526         DC    X'4B'                        Test Num
00000A3D    0000                                   527         DC    X'00',X'00'
00000A3F    40                                     528         DC    X'40'                        M3: A=0,F=1,L=0
00000A40    00002938 00000800                      529         DC    A(TRTO1LF0),A(2048)          Source - Op 1 & length
00000A48    00023638 00000200                      530         DC    A(TRTOP4F0),A(512)           Source - FC Table & length
                                                   531 *                                         Target -
00000A50    003AFFC0 004B0000                      532         DC    A(3*MB+(11*K64)-64),A(4*MB+(11*K64)),A(0) FC, Op1, Op1L
00000A58    00000000
00000A5C    AABBCCDD                               533         DC    A(REG2PATT)
00000A60    0000000B                               534         DC    A(11) CC1
00000A64    004B07FF 00000001                      535         DC    A(4*MB+(11*K64)+2048-1),A(1),XL4'F0'
00000A6C    000000F0
```

```
 LOC         OBJECT CODE      ADDR1     ADDR2     STMT

                                                  537 ****************************************************************
                                                  538 *         tests with   M3: A=1,F=0,L=0, reserved=0    (8)
                                                  539 *                       FC Table : SIZE: 65,536 (2 BYTE ARGUMENT)
                                                  540 *
                                                  541 *         Note: Op1 length must be a multiple of 2
                                                  542 ****************************************************************


00000A70                                          544 M8T1      DS     0F
00000A70    81                                    545           DC     X'81'                    Test Num
00000A71    0000                                  546           DC     X'00',X'00'
00000A73    80                                    547           DC     X'80'                    M3: A=1,F=0,L=0,--=0
00000A74    00001438 00000002                     548           DC     A(TRTOP10),A(002)        Source - Op 1 & length
00000A7C    00003138 00010000                     549           DC     A(TRTOP20),A(K64)        Source - FC Table & length
                                                  550 *                                         Target -
00000A84    00510000 00610000                     551           DC     A(5*MB+(1*K64)),A(6*MB+(1*K64)),A(0)  FC, Op1, Op1L
00000A8C    00000000
00000A90    AABBCCDD                              552           DC     A(REG2PATT)
00000A94    00000007                              553           DC     A(7) CC0
00000A98    00610002 00000000                     554           DC     A(6*MB+(1*K64)+002),A(000),A(0)
00000AA0    00000000




00000AA4                                          556 M8T2      DS     0F
00000AA4    82                                    557           DC     X'82'                    Test Num
00000AA5    0000                                  558           DC     X'00',X'00'
00000AA7    80                                    559           DC     X'80'                    M3: A=1,F=0,L=0,--=0
00000AA8    00001438 00000004                     560           DC     A(TRTOP10),A(004)        Source - Op 1 & length
00000AB0    00003138 00010000                     561           DC     A(TRTOP20),A(K64)        Source - FC Table & length
                                                  562 *                                         Target -
00000AB8    00520000 00620000                     563           DC     A(5*MB+(2*K64)),A(6*MB+(2*K64)),A(0)  FC, Op1, Op1L
00000AC0    00000000
00000AC4    AABBCCDD                              564           DC     A(REG2PATT)
00000AC8    00000007                              565           DC     A(7) CC0
00000ACC    00620004 00000000                     566           DC     A(6*MB+(2*K64)+004),A(000),A(0)
00000AD4    00000000




00000AD8                                          568 M8T3      DS     0F
00000AD8    83                                    569           DC     X'83'                    Test Num
00000AD9    0000                                  570           DC     X'00',X'00'
00000ADB    80                                    571           DC     X'80'                    M3: A=1,F=0,L=0,--=0
00000ADC    00001438 00000008                     572           DC     A(TRTOP10),A(008)        Source - Op 1 & length
00000AE4    00003138 00010000                     573           DC     A(TRTOP20),A(K64)        Source - FC Table & length
                                                  574 *                                         Target -
00000AEC    00530000 00630000                     575           DC     A(5*MB+(3*K64)),A(6*MB+(3*K64)),A(0)  FC, Op1, Op1L
00000AF4    00000000
00000AF8    AABBCCDD                              576           DC     A(REG2PATT)
00000AFC    00000007                              577           DC     A(7) CC0
00000B00    00630008 00000000                     578           DC     A(6*MB+(3*K64)+008),A(000),A(0)
00000B08    00000000
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00000B0C                                         580 M8T4     DS      0F
00000B0C   84                                    581         DC      X'84'                           Test Num
00000B0D   0000                                  582         DC      X'00',X'00'
00000B0F   80                                    583         DC      X'80'                           M3: A=1,F=0,L=0,--=0
00000B10   00001438 00000100                     584         DC      A(TRTOP10),A(256)               Source - Op 1 & length
00000B18   00003138 00010000                     585         DC      A(TRTOP20),A(K64)               Source - FC Table & length
                                                 586 *                                               Target -
00000B20   00540000 00640000                     587         DC      A(5*MB+(4*K64)),A(6*MB+(4*K64)),A(0)  FC, Op1, Op1L
00000B28   00000000
00000B2C   AABBCCDD                              588         DC      A(REG2PATT)
00000B30   00000007                              589         DC      A(7) CC0
00000B34   00640100 00000000                     590         DC      A(6*MB+(4*K64)+256),A(000),A(0)
00000B3C   00000000


00000B40                                         592 M8T5     DS      0F
00000B40   85                                    593         DC      X'85'                           Test Num
00000B41   0000                                  594         DC      X'00',X'00'
00000B43   80                                    595         DC      X'80'                           M3: A=1,F=0,L=0,--=0
00000B44   00001538 00000100                     596         DC      A(TRTOP111),A(256)              Source - Op 1 & length
00000B4C   00023838 00010000                     597         DC      A(TRTOP811),A(K64)              Source - FC Table & length
                                                 598 *                                               Target -
00000B54   00550000 0064FFF4                     599         DC      A(5*MB+(5*K64)),A(6*MB+(5*K64)-12),A(0)  FC, Op1, Op1L
00000B5C   00000000
00000B60   AABBCCDD                              600         DC      A(REG2PATT)
00000B64   0000000A                              601         DC      A(10) CC1 or CC3
00000B68   00650004 000000F0                     602         DC      A(6*MB+(5*K64)-12+X'10'),A(256-X'10'),XL4'11'
00000B70   00000011


00000B74                                         604 M8T6     DS      0F
00000B74   86                                    605         DC      X'86'                           Test Num
00000B75   0000                                  606         DC      X'00',X'00'
00000B77   80                                    607         DC      X'80'                           M3: A=1,F=0,L=0,--=0
00000B78   00001638 00000100                     608         DC      A(TRTOP1F0),A(256)              Source - Op 1 & length
00000B80   00043938 00010000                     609         DC      A(TRTOP8F0),A(K64)              Source - FC Table & length
                                                 610 *                                               Target -
00000B88   00560000 0065FFF4                     611         DC      A(5*MB+(6*K64)),A(6*MB+(6*K64)-12),A(0)  FC, Op1, Op1L
00000B90   00000000
00000B94   AABBCCDD                              612         DC      A(REG2PATT)
00000B98   0000000A                              613         DC      A(10) CC1 or CC3
00000B9C   006600F2 00000002                     614         DC      A(6*MB+(6*K64)-12+(256-2)),A(2),XL4'F0'
00000BA4   000000F0
```

```
  LOC       OBJECT CODE        ADDR1     ADDR2     STMT

00000BA8                                           616 M8T7     DS     0F
00000BA8   87                                      617         DC     X'87'                          Test Num
00000BA9   0000                                    618         DC     X'00',X'00'
00000BAB   80                                      619         DC     X'80'                          M3: A=1,F=0,L=0,--=0
00000BAC   00001538 00000100                       620         DC     A(TRTOP111),A(256)             Source - Op 1 & length
00000BB4   00023838 00010000                       621         DC     A(TRTOP811),A(K64)             Source - FC Table & length
                                                   622 *                                            Target -
00000BBC   0057FFE0 00680000                       623         DC     A(5*MB+(8*K64)-32),A(6*MB+(8*K64)),A(0)  FC, Op1, Op1L
00000BC4   00000000
00000BC8   AABBCCDD                                624         DC     A(REG2PATT)
00000BCC   0000000B                                625         DC     A(11) CC1
00000BD0   00680010 000000F0                       626         DC     A(6*MB+(8*K64)+X'10'),A(256-X'10'),XL4'11'
00000BD8   00000011


00000BDC                                           628 M8T8     DS     0F
00000BDC   88                                      629         DC     X'88'                          Test Num
00000BDD   0000                                    630         DC     X'00',X'00'
00000BDF   80                                      631         DC     X'80'                          M3: A=1,F=0,L=0,--=0
00000BE0   00001738 00000200                       632         DC     A(TRTOP1F1),A(512)             Source - Op 1 & length
00000BE8   00063A38 00010000                       633         DC     A(TRTOP8F1),A(K64)             Source - FC Table & length
                                                   634 *                                            Target -
00000BF0   0058FFE0 00690000                       635         DC     A(5*MB+(9*K64)-32),A(6*MB+(9*K64)),A(0)  FC, Op1, Op1L
00000BF8   00000000
00000BFC   AABBCCDD                                636         DC     A(REG2PATT)
00000C00   0000000B                                637         DC     A(11) CC1
00000C04   006901FE 00000002                       638         DC     A(6*MB+(9*K64)+510),A(2),XL4'F1'
00000C0C   000000F1


00000C10                                           640 M8T9     DS     0F
00000C10   89                                      641         DC     X'89'                          Test Num
00000C11   0000                                    642         DC     X'00',X'00'
00000C13   80                                      643         DC     X'80'                          M3: A=1,F=0,L=0,--=0
00000C14   00001938 00000800                       644         DC     A(TRTO1L0),A(2048)             Source - Op 1 & length
00000C1C   00003138 00010000                       645         DC     A(TRTOP20),A(K64)              Source - FC Table & length
                                                   646 *                                            Target -
00000C24   005A0000 006A0000                       647         DC     A(5*MB+(10*K64)),A(6*MB+(10*K64)),A(0)  FC, Op1, Op1L
00000C2C   00000000
00000C30   AABBCCDD                                648         DC     A(REG2PATT)
00000C34   00000007                                649         DC     A(7) CC0
00000C38   006A0800 00000000                       650         DC     A(6*MB+(10*K64)+2048),A(0),XL4'00'
00000C40   00000000
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2      STMT

00000C44                                          652 M8T10    DS    0F
00000C44   8A                                     653         DC    X'8A'                      Test Num
00000C45   0000                                   654         DC    X'00',X'00'
00000C47   80                                     655         DC    X'80'                      M3: A=1,F=0,L=0,--=0
00000C48   00002138 00000800                      656         DC    A(TRTO1L11),A(2048)        Source - Op 1 & length
00000C50   00023838 00010000                      657         DC    A(TRTOP811),A(K64)         Source - FC Table & length
                                                  658 *                                       Target -
00000C58   005C0000 006BFF39                      659         DC    A(5*MB+(12*K64)),A(6*MB+(12*K64)-199),A(0) FC, Op1, Op1L
00000C60   00000000
00000C64   AABBCCDD                               660         DC    A(REG2PATT)
00000C68   0000000A                               661         DC    A(10) CC1 or CC3
00000C6C   006C0339 00000400                      662         DC    A(6*MB+(12*K64)-199+(4*256)),A(1024),XL4'11'
00000C74   00000011


00000C78                                          664 M8T11    DS    0F
00000C78   8B                                     665         DC    X'8B'                      Test Num
00000C79   0000                                   666         DC    X'00',X'00'
00000C7B   80                                     667         DC    X'80'                      M3: A=1,F=0,L=0,--=0
00000C7C   00002938 00000800                      668         DC    A(TRTO1LF0),A(2048)        Source - Op 1 & length
00000C84   00043938 00010000                      669         DC    A(TRTOP8F0),A(K64)         Source - FC Table & length
                                                  670 *                                       Target -
00000C8C   005DFFC1 006E0000                      671         DC    A(5*MB+(14*K64)-63),A(6*MB+(14*K64)),A(0) FC, Op1, Op1L
00000C94   00000000
00000C98   AABBCCDD                               672         DC    A(REG2PATT)
00000C9C   0000000B                               673         DC    A(11) CC1
00000CA0   006E07FE 00000002                      674         DC    A(6*MB+(14*K64)+2048-2),A(2),XL4'F0'
00000CA8   000000F0
```

```
 LOC         OBJECT CODE      ADDR1     ADDR2    STMT

                                                 676 **********************************************************************
                                                 677 *         tests with   M3: A=1,F=0,L=1, reserved=0    (10)
                                                 678 *                      FC Table : SIZE: 256 (2 BYTE ARGUMENT)
                                                 679 *                                 Function Code is 1 byte
                                                 680 *                                 Limit arg to 255
                                                 681 *
                                                 682 *              Note: Op1 length must be a multiple of 2
                                                 683 **********************************************************************


00000CAC                                         685 M10T1    DS      0F
00000CAC   A1                                     686          DC      X'A1'                        Test Num
00000CAD   0000                                   687          DC      X'00',X'00'
00000CAF   A0                                     688          DC      X'A0'                        M3: A=1,F=0,L=1,--=0
00000CB0   00001438 00000002                      689          DC      A(TRTOP10),A(002)            Source - Op 1 & length
00000CB8   00003138 00000100                      690          DC      A(TRTOP20),A(256)            Source - FC Table & length
                                                 691 *                                             Target -
00000CC0   00A00000 00B00000                      692          DC      A(10*MB+(0*K64)),A(11*MB+(0*K64)),A(0)  FC, Op1, Op1L
00000CC8   00000000
00000CCC   AABBCCDD                               693          DC      A(REG2PATT)
00000CD0   00000007                               694          DC      A(7) CC0
00000CD4   00B00002 00000000                      695          DC      A(11*MB+(0*K64)+002),A(000),A(0)
00000CDC   00000000


00000CE0                                         697 M10T2    DS      0F
00000CE0   A2                                     698          DC      X'A2'                        Test Num
00000CE1   0000                                   699          DC      X'00',X'00'
00000CE3   A0                                     700          DC      X'A0'                        M3: A=1,F=0,L=1,--=0
00000CE4   00001438 00000004                      701          DC      A(TRTOP10),A(004)            Source - Op 1 & length
00000CEC   00003138 00000100                      702          DC      A(TRTOP20),A(256)            Source - FC Table & length
                                                 703 *                                             Target -
00000CF4   00A10000 00B10000                      704          DC      A(10*MB+(1*K64)),A(11*MB+(1*K64)),A(0)  FC, Op1, Op1L
00000CFC   00000000
00000D00   AABBCCDD                               705          DC      A(REG2PATT)
00000D04   00000007                               706          DC      A(7) CC0
00000D08   00B10004 00000000                      707          DC      A(11*MB+(1*K64)+004),A(000),A(0)
00000D10   00000000


00000D14                                         709 M10T3    DS      0F
00000D14   A3                                     710          DC      X'A3'                        Test Num
00000D15   0000                                   711          DC      X'00',X'00'
00000D17   A0                                     712          DC      X'A0'                        M3: A=1,F=0,L=1,--=0
00000D18   00001438 00000008                      713          DC      A(TRTOP10),A(008)            Source - Op 1 & length
00000D20   00003138 00000100                      714          DC      A(TRTOP20),A(256)            Source - FC Table & length
                                                 715 *                                             Target -
00000D28   00A20000 00B20000                      716          DC      A(10*MB+(2*K64)),A(11*MB+(2*K64)),A(0)  FC, Op1, Op1L
00000D30   00000000
00000D34   AABBCCDD                               717          DC      A(REG2PATT)
00000D38   00000007                               718          DC      A(7) CC0
00000D3C   00B20008 00000000                      719          DC      A(11*MB+(2*K64)+008),A(000),A(0)
00000D44   00000000
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00000D48                                          721 M10T4   DS      0F
00000D48   A4                                     722         DC      X'A4'                        Test Num
00000D49   0000                                   723         DC      X'00',X'00'
00000D4B   A0                                      724         DC      X'A0'                        M3: A=1,F=0,L=1,--=0
00000D4C   00001438 00000100                      725         DC      A(TRTOP10),A(256)            Source - Op 1 & length
00000D54   00003138 00000100                      726         DC      A(TRTOP20),A(256)            Source - FC Table & length
                                                  727 *                                            Target -
00000D5C   00A30000 00B30000                      728         DC      A(10*MB+(3*K64)),A(11*MB+(3*K64)),A(0)  FC, Op1, Op1L
00000D64   00000000
00000D68   AABBCCDD                               729         DC      A(REG2PATT)
00000D6C   00000007                               730         DC      A(7) CC0
00000D70   00B30100 00000000                      731         DC      A(11*MB+(3*K64)+256),A(000),A(0)
00000D78   00000000


00000D7C                                          733 M10T5   DS      0F
00000D7C   A5                                     734         DC      X'A5'                        Test Num
00000D7D   0000                                   735         DC      X'00',X'00'
00000D7F   A0                                      736         DC      X'A0'                        M3: A=1,F=0,L=1,--=0
00000D80   00001538 00000100                      737         DC      A(TRTOP111),A(256)           Source - Op 1 & length
00000D88   00023238 00000100                      738         DC      A(TRTOP211),A(256)           Source - FC Table & length
                                                  739 *                                            Target -
00000D90   00A40000 00B3FFF4                      740         DC      A(10*MB+(4*K64)),A(11*MB+(4*K64)-12),A(0)  FC, Op1, Op1L
00000D98   00000000
00000D9C   AABBCCDD                               741         DC      A(REG2PATT)
00000DA0   0000000A                               742         DC      A(10) CC1 or CC3
00000DA4   00B40004 000000F0                      743         DC      A(11*MB+(4*K64)-12+X'10'),A(256-X'10'),XL4'11'
00000DAC   00000011


00000DB0                                          745 M10T6   DS      0F
00000DB0   A6                                     746         DC      X'A6'                        Test Num
00000DB1   0000                                   747         DC      X'00',X'00'
00000DB3   A0                                      748         DC      X'A0'                        M3: A=1,F=0,L=1,--=0
00000DB4   00001638 00000100                      749         DC      A(TRTOP1F0),A(256)           Source - Op 1 & length
00000DBC   00023338 00000100                      750         DC      A(TRTOP2F0),A(256)           Source - FC Table & length
                                                  751 *                                            Target -
00000DC4   00A50000 00B4FFF4                      752         DC      A(10*MB+(5*K64)),A(11*MB+(5*K64)-12),A(0)  FC, Op1, Op1L
00000DCC   00000000
00000DD0   AABBCCDD                               753         DC      A(REG2PATT)
00000DD4   0000000A                               754         DC      A(10) CC1 or CC3
00000DD8   00B500F2 00000002                      755         DC      A(11*MB+(5*K64)-12+(256-2)),A(2),XL4'F0'
00000DE0   000000F0
```

```
  LOC       OBJECT CODE      ADDR1     ADDR2     STMT

00000DE4                                         757 M10T7    DS    0F
00000DE4  A7                                     758         DC    X'A7'                          Test Num
00000DE5  0000                                   759         DC    X'00',X'00'
00000DE7  A0                                     760         DC    X'A0'                          M3: A=1,F=0,L=1,--=0
00000DE8  00001538 00000100                      761         DC    A(TRTOP111),A(256)             Source - Op 1 & length
00000DF0  00023238 00000100                      762         DC    A(TRTOP211),A(256)             Source - FC Table & length
                                                 763 *                                           Target -
00000DF8  00A5FFE0 00B60000                      764         DC    A(10*MB+(6*K64-32)),A(11*MB+(6*K64)),A(0)  FC, Op1, Op1L
00000E00  00000000
00000E04  AABBCCDD                               765         DC    A(REG2PATT)
00000E08  0000000B                               766         DC    A(11) CC1
00000E0C  00B60010 000000F0                      767         DC    A(11*MB+(6*K64)+X'10'),A(256-X'10'),XL4'11'
00000E14  00000011


00000E18                                         769 M10T8    DS    0F
00000E18  A8                                     770         DC    X'A8'                          Test Num
00000E19  0000                                   771         DC    X'00',X'00'
00000E1B  A0                                     772         DC    X'A0'                          M3: A=1,F=0,L=1,--=0
00000E1C  00001738 00000200                      773         DC    A(TRTOP1F1),A(512)             Source - Op 1 & length
00000E24  00063A38 00000100                      774         DC    A(TRTOP8F1),A(256)             Source - FC Table & length
                                                 775 *                                           Target -
00000E2C  00A70000 00B70000                      776         DC    A(10*MB+(7*K64)),A(11*MB+(7*K64)),A(0)  FC, Op1, Op1L
00000E34  00000000
00000E38  AABBCCDD                               777         DC    A(REG2PATT)
00000E3C  0000000B                               778         DC    A(11) CC1
00000E40  00B701FE 00000002                      779         DC    A(11*MB+(7*K64)+510),A(2),XL4'F1'
00000E48  000000F1


00000E4C                                         781 M10T9    DS    0F
00000E4C  A9                                     782         DC    X'A9'                          Test Num
00000E4D  0000                                   783         DC    X'00',X'00'
00000E4F  A0                                     784         DC    X'A0'                          M3: A=1,F=0,L=1,--=0
00000E50  00001938 00000800                      785         DC    A(TRTO1L0),A(2048)             Source - Op 1 & length
00000E58  00003138 00000100                      786         DC    A(TRTOP20),A(256)              Source - FC Table & length
                                                 787 *                                           Target -
00000E60  00A80000 00B80000                      788         DC    A(10*MB+(8*K64)),A(11*MB+(8*K64)),A(0)  FC, Op1, Op1L
00000E68  00000000
00000E6C  AABBCCDD                               789         DC    A(REG2PATT)
00000E70  00000007                               790         DC    A(7) CC0
00000E74  00B80800 00000000                      791         DC    A(11*MB+(8*K64)+2048),A(0),XL4'00'
00000E7C  00000000
```

```
 LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00000E80                                         793 M10T10  DS    0F
00000E80   AA                                    794         DC    X'AA'                        Test Num
00000E81   0000                                  795         DC    X'00',X'00'
00000E83   A0                                    796         DC    X'A0'                        M3: A=1,F=0,L=1,--=0
00000E84   00002138 00000800                     797         DC    A(TRTO1L11),A(2048)          Source - Op 1 & length
00000E8C   00023238 00000100                     798         DC    A(TRTOP211),A(256)           Source - FC Table & length
                                                 799 *                                         Target -
00000E94   00A90000 00B8FF39                     800         DC    A(10*MB+(9*K64)),A(11*MB+(9*K64)-199),A(0) FC, Op1, Op1L
00000E9C   00000000
00000EA0   AABBCCDD                              801         DC    A(REG2PATT)
00000EA4   0000000A                              802         DC    A(10) CC1 or CC3
00000EA8   00B90339 00000400                     803         DC    A(11*MB+(9*K64)-199+(4*256)),A(1024),XL4'11'
00000EB0   00000011


00000EB4                                         805 M10T11  DS    0F
00000EB4   AB                                    806         DC    X'AB'                        Test Num
00000EB5   0000                                  807         DC    X'00',X'00'
00000EB7   A0                                    808         DC    X'A0'                        M3: A=1,F=0,L=1,--=0
00000EB8   00002938 00000800                     809         DC    A(TRTO1LF0),A(2048)          Source - Op 1 & length
00000EC0   00023338 00000100                     810         DC    A(TRTOP2F0),A(256)           Source - FC Table & length
                                                 811 *                                         Target - FC, Op1, Op1L
00000EC8   00A9FE1F 00BA0000                     812         DC    A(10*MB+(10*K64)-481),A(11*MB+(10*K64)),A(0)
00000ED0   00000000
00000ED4   AABBCCDD                              813         DC    A(REG2PATT)
00000ED8   0000000B                              814         DC    A(11) CC1
00000EDC   00BA07FE 00000002                     815         DC    A(11*MB+(10*K64)+2048-2),A(2),XL4'F0'
00000EE4   000000F0
```

```
  LOC          OBJECT CODE        ADDR1     ADDR2    STMT

                                                     817 ********************************************************************
                                                     818 *        tests with    M3: A=1,F=1,L=0, reserved=0    (12)
                                                     819 *                       FC Table : SIZE: 131,072 (2 BYTE ARGUMENT)
                                                     820 *                                Function Code is 2 bytes
                                                     821 *
                                                     822 *                Note: Op1 length must be a multiple of 2
                                                     823 ********************************************************************


00000EE8                                             825 M12T1     DS     0F
00000EE8   C1                                        826           DC     X'C1'                          Test Num
00000EE9   0000                                      827           DC     X'00',X'00'
00000EEB   C0                                        828           DC     X'C0'                          M3: A=1,F=1,L=0,--=0
00000EEC   00001438 00000002                         829           DC     A(TRTOP10),A(002)              Source - Op 1 & length
00000EF4   00003138 00020000                         830           DC     A(TRTOP20),A(2*K64)            Source - FC Table & length
                                                     831 *                                              Target -
00000EFC   00700000 00900000                         832           DC     A(7*MB+(0*K64)),A(9*MB+(0*K64)),A(0)  FC, Op1, Op1L
00000F04   00000000
00000F08   AABBCCDD                                  833           DC     A(REG2PATT)
00000F0C   00000007                                  834           DC     A(7) CC0
00000F10   00900002 00000000                         835           DC     A(9*MB+(0*K64)+002),A(000),A(0)
00000F18   00000000


00000F1C                                             837 M12T2     DS     0F
00000F1C   C2                                        838           DC     X'C2'                          Test Num
00000F1D   0000                                      839           DC     X'00',X'00'
00000F1F   C0                                        840           DC     X'C0'                          M3: A=1,F=1,L=0,--=0
00000F20   00001438 00000004                         841           DC     A(TRTOP10),A(004)              Source - Op 1 & length
00000F28   00003138 00020000                         842           DC     A(TRTOP20),A(2*K64)            Source - FC Table & length
                                                     843 *                                              Target -
00000F30   00720000 00910000                         844           DC     A(7*MB+(2*K64)),A(9*MB+(1*K64)),A(0)  FC, Op1, Op1L
00000F38   00000000
00000F3C   AABBCCDD                                  845           DC     A(REG2PATT)
00000F40   00000007                                  846           DC     A(7) CC0
00000F44   00910004 00000000                         847           DC     A(9*MB+(1*K64)+004),A(000),A(0)
00000F4C   00000000


00000F50                                             849 M12T3     DS     0F
00000F50   C3                                        850           DC     X'C3'                          Test Num
00000F51   0000                                      851           DC     X'00',X'00'
00000F53   C0                                        852           DC     X'C0'                          M3: A=1,F=1,L=0,--=0
00000F54   00001438 00000008                         853           DC     A(TRTOP10),A(008)              Source - Op 1 & length
00000F5C   00003138 00020000                         854           DC     A(TRTOP20),A(2*K64)            Source - FC Table & length
                                                     855 *                                              Target -
00000F64   00740000 00920000                         856           DC     A(7*MB+(4*K64)),A(9*MB+(2*K64)),A(0)  FC, Op1, Op1L
00000F6C   00000000
00000F70   AABBCCDD                                  857           DC     A(REG2PATT)
00000F74   00000007                                  858           DC     A(7) CC0
00000F78   00920008 00000000                         859           DC     A(9*MB+(2*K64)+008),A(000),A(0)
00000F80   00000000
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00000F84                                           861 M12T4   DS    0F
00000F84   C4                                      862         DC    X'C4'                         Test Num
00000F85   0000                                    863         DC    X'00',X'00'
00000F87   C0                                      864         DC    X'C0'                         M3: A=1,F=1,L=0,--=0
00000F88   00001438 00000100                       865         DC    A(TRTOP10),A(256)             Source - Op 1 & length
00000F90   00003138 00020000                       866         DC    A(TRTOP20),A(2*K64)           Source - FC Table & length
                                                   867 *                                          Target -
00000F98   00760000 00930000                       868         DC    A(7*MB+(6*K64)),A(9*MB+(3*K64)),A(0)  FC, Op1, Op1L
00000FA0   00000000
00000FA4   AABBCCDD                                 869         DC    A(REG2PATT)
00000FA8   00000007                                 870         DC    A(7) CC0
00000FAC   00930100 00000000                        871         DC    A(9*MB+(3*K64)+256),A(000),A(0)
00000FB4   00000000


00000FB8                                           873 M12T5   DS    0F
00000FB8   C5                                      874         DC    X'C5'                         Test Num
00000FB9   0000                                    875         DC    X'00',X'00'
00000FBB   C0                                      876         DC    X'C0'                         M3: A=1,F=1,L=0,--=0
00000FBC   00001538 00000100                       877         DC    A(TRTOP111),A(256)            Source - Op 1 & length
00000FC4   00083B38 00020000                       878         DC    A(TRTOPC11),A(2*K64)          Source - FC Table & length
                                                   879 *                                          Target -
00000FCC   00780000 0093FFF4                       880         DC    A(7*MB+(8*K64)),A(9*MB+(4*K64)-12),A(0)  FC, Op1, Op1L
00000FD4   00000000
00000FD8   AABBCCDD                                 881         DC    A(REG2PATT)
00000FDC   0000000A                                 882         DC    A(10) CC1 or CC3
00000FE0   00940004 000000F0                        883         DC    A(9*MB+(4*K64)-12+X'10'),A(256-X'10'),XL4'11'
00000FE8   00000011


00000FEC                                           885 M12T6   DS    0F
00000FEC   C6                                      886         DC    X'C6'                         Test Num
00000FED   0000                                    887         DC    X'00',X'00'
00000FEF   C0                                      888         DC    X'C0'                         M3: A=1,F=1,L=0,--=0
00000FF0   00001638 00000100                       889         DC    A(TRTOP1F0),A(256)            Source - Op 1 & length
00000FF8   000A3B5C 00020000                       890         DC    A(TRTOPCF0),A(2*K64)          Source - FC Table & length
                                                   891 *                                          Target -
00001000   007A0000 0094FFF4                        892         DC    A(7*MB+(10*K64)),A(9*MB+(5*K64)-12),A(0)  FC, Op1, Op1L
00001008   00000000
0000100C   AABBCCDD                                 893         DC    A(REG2PATT)
00001010   0000000A                                 894         DC    A(10) CC1 or CC3
00001014   009500F2 00000002                        895         DC    A(9*MB+(5*K64)-12+(256-2)),A(2),XL4'F0'
0000101C   000000F0
```

```
  LOC       OBJECT CODE     ADDR1     ADDR2     STMT

00001020                                        897 M12T7   DS    0F
00001020  C7                                    898         DC    X'C7'                       Test Num
00001021  0000                                  899         DC    X'00',X'00'
00001023  C0                                    900         DC    X'C0'                       M3: A=1,F=1,L=0,--=0
00001024  00001538 00000100                     901         DC    A(TRTOP111),A(256)          Source - Op 1 & length
0000102C  00083B38 00020000                     902         DC    A(TRTOPC11),A(2*K64)        Source - FC Table & length
                                                903 *                                        Target -
00001034  007CFFE0 00960000                     904         DC    A(7*MB+(13*K64)-32),A(9*MB+(6*K64)),A(0)  FC, Op1, Op1L
0000103C  00000000
00001040  AABBCCDD                              905         DC    A(REG2PATT)
00001044  0000000B                              906         DC    A(11) CC1
00001048  00960010 000000F0                     907         DC    A(9*MB+(6*K64)+X'10'),A(256-X'10'),XL4'11'
00001050  00000011


00001054                                        909 M12T8   DS    0F
00001054  C8                                    910         DC    X'C8'                       Test Num
00001055  0000                                  911         DC    X'00',X'00'
00001057  C0                                    912         DC    X'C0'                       M3: A=1,F=1,L=0,--=0
00001058  00001738 00000200                     913         DC    A(TRTOP1F1),A(512)          Source - Op 1 & length
00001060  000C3D5A 00020000                     914         DC    A(TRTOPCF1),A(2*K64)        Source - FC Table & length
                                                915 *                                        Target -
00001068  007F0000 00970000                     916         DC    A(7*MB+(15*K64)),A(9*MB+(7*K64)),A(0)  FC, Op1, Op1L
00001070  00000000
00001074  AABBCCDD                              917         DC    A(REG2PATT)
00001078  0000000B                              918         DC    A(11) CC1
0000107C  009701FE 00000002                     919         DC    A(9*MB+(7*K64)+510),A(2),XL4'F1'
00001084  000000F1


00001088                                        921 M12T9   DS    0F
00001088  C9                                    922         DC    X'C9'                       Test Num
00001089  0000                                  923         DC    X'00',X'00'
0000108B  C0                                    924         DC    X'C0'                       M3: A=1,F=1,L=0,--=0
0000108C  00001938 00000800                     925         DC    A(TRTO1L0),A(2048)          Source - Op 1 & length
00001094  00003138 00020000                     926         DC    A(TRTOP20),A(2*K64)         Source - FC Table & length
                                                927 *                                        Target -
0000109C  00810000 00980000                     928         DC    A(7*MB+(17*K64)),A(9*MB+(8*K64)),A(0)  FC, Op1, Op1L
000010A4  00000000
000010A8  AABBCCDD                              929         DC    A(REG2PATT)
000010AC  00000007                              930         DC    A(7) CC0
000010B0  00980800 00000000                     931         DC    A(9*MB+(8*K64)+2048),A(0),XL4'00'
000010B8  00000000
```

```
  LOC       OBJECT CODE      ADDR1     ADDR2     STMT

000010BC                                         933 M12T10  DS   0F
000010BC  CA                                     934         DC   X'CA'                    Test Num
000010BD  0000                                   935         DC   X'00',X'00'
000010BF  C0                                     936         DC   X'C0'                    M3: A=1,F=1,L=0,--=0
000010C0  00002138 00000800                      937         DC   A(TRTO1L11),A(2048)      Source - Op 1 & length
000010C8  00083B38 00020000                      938         DC   A(TRTOPC11),A(2*K64)     Source - FC Table & length
                                                 939 *                                    Target -
000010D0  00830000 0098FF39                      940         DC   A(7*MB+(19*K64)),A(9*MB+(9*K64)-199),A(0)  FC, Op1, Op1L
000010D8  00000000
000010DC  AABBCCDD                               941         DC   A(REG2PATT)
000010E0  0000000A                               942         DC   A(10) CC1 or CC3
000010E4  00990339 00000400                      943         DC   A(9*MB+(9*K64)-199+(4*256)),A(1024),XL4'11'
000010EC  00000011


000010F0                                         945 M12T11  DS   0F
000010F0  CB                                     946         DC   X'CB'                    Test Num
000010F1  0000                                   947         DC   X'00',X'00'
000010F3  C0                                     948         DC   X'C0'                    M3: A=1,F=1,L=0,--=0
000010F4  00002938 00000800                      949         DC   A(TRTO1LF0),A(2048)      Source - Op 1 & length
000010FC  000A3B5C 00020000                      950         DC   A(TRTOPCF0),A(2*K64)     Source - FC Table & length
                                                 951 *                                    Target -
00001104  0085FE1F 009A0000                      952         DC   A(7*MB+(22*K64)-481),A(9*MB+(10*K64)),A(0) FC, Op1, Op1L
0000110C  00000000
00001110  AABBCCDD                               953         DC   A(REG2PATT)
00001114  0000000B                               954         DC   A(11) CC1
00001118  009A07FE 00000002                      955         DC   A(9*MB+(10*K64)+2048-2),A(2),XL4'F0'
00001120  000000F0
```

```
 LOC        OBJECT CODE      ADDR1     ADDR2     STMT

                                                 957 ****************************************************************************
                                                 958 *       tests with   M3: A=1,F=1,L=1, reserved=0     (14)
                                                 959 *                       FC Table : SIZE: 512 (2 BYTE ARGUMENT)
                                                 960 *                               Function Code is 2 byte
                                                 961 *                               Limit arg to 255
                                                 962 *
                                                 963 *              Note: Op1 length must be a multiple of 2
                                                 964 ****************************************************************************


00001124                                         966 M14T1    DS     0F
00001124   E1                                    967          DC     X'E1'                       Test Num
00001125   0000                                  968          DC     X'00',X'00'
00001127   E0                                    969          DC     X'E0'                       M3: A=1,F=1,L=1,--=0
00001128   00001438 00000002                     970          DC     A(TRTOP10),A(002)           Source - Op 1 & length
00001130   00003138 00000200                     971          DC     A(TRTOP20),A(512)           Source - FC Table & length
                                                 972 *                                           Target -
00001138   00B00000 00C00000                     973          DC     A(11*MB+(0*K64)),A(12*MB+(0*K64)),A(0)  FC, Op1, Op1L
00001140   00000000
00001144   AABBCCDD                              974          DC     A(REG2PATT)
00001148   00000007                              975          DC     A(7) CC0
0000114C   00C00002 00000000                     976          DC     A(12*MB+(0*K64)+002),A(000),A(0)
00001154   00000000



00001158                                         978 M14T2    DS     0F
00001158   E2                                    979          DC     X'E2'                       Test Num
00001159   0000                                  980          DC     X'00',X'00'
0000115B   E0                                    981          DC     X'E0'                       M3: A=1,F=1,L=1,--=0
0000115C   00001438 00000004                     982          DC     A(TRTOP10),A(004)           Source - Op 1 & length
00001164   00003138 00000200                     983          DC     A(TRTOP20),A(512)           Source - FC Table & length
                                                 984 *                                           Target -
0000116C   00B10000 00C10000                     985          DC     A(11*MB+(1*K64)),A(12*MB+(1*K64)),A(0)  FC, Op1, Op1L
00001174   00000000
00001178   AABBCCDD                              986          DC     A(REG2PATT)
0000117C   00000007                              987          DC     A(7) CC0
00001180   00C10004 00000000                     988          DC     A(12*MB+(1*K64)+004),A(000),A(0)
00001188   00000000



0000118C                                         990 M14T3    DS     0F
0000118C   E3                                    991          DC     X'E3'                       Test Num
0000118D   0000                                  992          DC     X'00',X'00'
0000118F   E0                                    993          DC     X'E0'                       M3: A=1,F=1,L=1,--=0
00001190   00001438 00000008                     994          DC     A(TRTOP10),A(008)           Source - Op 1 & length
00001198   00003138 00000200                     995          DC     A(TRTOP20),A(512)           Source - FC Table & length
                                                 996 *                                           Target -
000011A0   00B20000 00C20000                     997          DC     A(11*MB+(2*K64)),A(12*MB+(2*K64)),A(0)  FC, Op1, Op1L
000011A8   00000000
000011AC   AABBCCDD                              998          DC     A(REG2PATT)
000011B0   00000007                              999          DC     A(7) CC0
000011B4   00C20008 00000000                    1000          DC     A(12*MB+(2*K64)+008),A(000),A(0)
000011BC   00000000
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

000011C0                                         1002 M14T4     DS      0F
000011C0   E4                                    1003           DC      X'E4'                         Test Num
000011C1   0000                                  1004           DC      X'00',X'00'
000011C3   E0                                    1005           DC      X'E0'                         M3: A=1,F=1,L=1,--=0
000011C4   00001438 00000100                     1006           DC      A(TRTOP10),A(256)             Source - Op 1 & length
000011CC   00003138 00000200                     1007           DC      A(TRTOP20),A(512)             Source - FC Table & length
                                                 1008 *                                               Target -
000011D4   00B30000 00C30000                     1009           DC      A(11*MB+(3*K64)),A(12*MB+(3*K64)),A(0)  FC, Op1, Op1L
000011DC   00000000
000011E0   AABBCCDD                              1010           DC      A(REG2PATT)
000011E4   00000007                              1011           DC      A(7) CC0
000011E8   00C30100 00000000                     1012           DC      A(12*MB+(3*K64)+256),A(000),A(0)
000011F0   00000000


000011F4                                         1014 M14T5     DS      0F
000011F4   E5                                    1015           DC      X'E5'                         Test Num
000011F5   0000                                  1016           DC      X'00',X'00'
000011F7   E0                                    1017           DC      X'E0'                         M3: A=1,F=1,L=1,--=0
000011F8   00001538 00000100                     1018           DC      A(TRTOP111),A(256)            Source - Op 1 & length
00001200   00023438 00000200                     1019           DC      A(TRTOP411),A(512)            Source - FC Table & length
                                                 1020 *                                               Target -
00001208   00B40000 00C3FFF4                     1021           DC      A(11*MB+(4*K64)),A(12*MB+(4*K64)-12),A(0)  FC, Op1, Op1L
00001210   00000000
00001214   AABBCCDD                              1022           DC      A(REG2PATT)
00001218   0000000A                              1023           DC      A(10) CC1 or CC3
0000121C   00C40004 000000F0                     1024           DC      A(12*MB+(4*K64)-12+X'10'),A(256-X'10'),XL4'11'
00001224   00000011


00001228                                         1026 M14T6     DS      0F
00001228   E6                                    1027           DC      X'E6'                         Test Num
00001229   0000                                  1028           DC      X'00',X'00'
0000122B   E0                                    1029           DC      X'E0'                         M3: A=1,F=1,L=1,--=0
0000122C   00001638 00000100                     1030           DC      A(TRTOP1F0),A(256)            Source - Op 1 & length
00001234   00023638 00000200                     1031           DC      A(TRTOP4F0),A(512)            Source - FC Table & length
                                                 1032 *                                               Target -
0000123C   00B50000 00C4FFF4                     1033           DC      A(11*MB+(5*K64)),A(12*MB+(5*K64)-12),A(0)  FC, Op1, Op1L
00001244   00000000
00001248   AABBCCDD                              1034           DC      A(REG2PATT)
0000124C   0000000A                              1035           DC      A(10) CC1 or CC3
00001250   00C500F2 00000002                     1036           DC      A(12*MB+(5*K64)-12+254),A(2),XL4'F0'
00001258   000000F0
```

```
 LOC       OBJECT CODE      ADDR1    ADDR2    STMT

0000125C                                     1038 M14T7      DS    0F
0000125C  E7                                 1039           DC    X'E7'                       Test Num
0000125D  0000                               1040           DC    X'00',X'00'
0000125F  E0                                 1041           DC    X'E0'                       M3: A=1,F=1,L=1,--=0
00001260  00001538 00000100                  1042           DC    A(TRTOP111),A(256)          Source - Op 1 & length
00001268  00023438 00000200                  1043           DC    A(TRTOP411),A(512)          Source - FC Table & length
                                             1044 *                                           Target -
00001270  00B5FFE0 00C60000                  1045           DC    A(11*MB+(6*K64)-32),A(12*MB+(6*K64)),A(0)  FC, Op1, Op1L
00001278  00000000
0000127C  AABBCCDD                           1046           DC    A(REG2PATT)
00001280  0000000B                           1047           DC    A(11) CC1
00001284  00C60010 000000F0                  1048           DC    A(12*MB+(6*K64)+X'10'),A(256-X'10'),XL4'11'
0000128C  00000011


00001290                                     1050 M14T8      DS    0F
00001290  E8                                 1051           DC    X'E8'                       Test Num
00001291  0000                               1052           DC    X'00',X'00'
00001293  E0                                 1053           DC    X'E0'                       M3: A=1,F=1,L=1,--=0
00001294  00001738 00000200                  1054           DC    A(TRTOP1F1),A(512)          Source - Op 1 & length
0000129C  000C3D5A 00000200                  1055           DC    A(TRTOPCF1),A(512)          Source - FC Table & length
                                             1056 *                                           Target -
000012A4  00B70000 00C70000                  1057           DC    A(11*MB+(7*K64)),A(12*MB+(7*K64)),A(0)  FC, Op1, Op1L
000012AC  00000000
000012B0  AABBCCDD                           1058           DC    A(REG2PATT)
000012B4  0000000B                           1059           DC    A(11) CC1
000012B8  00C701FE 00000002                  1060           DC    A(12*MB+(7*K64)+510),A(2),XL4'F1'
000012C0  000000F1


000012C4                                     1062 M14T9      DS    0F
000012C4  E9                                 1063           DC    X'E9'                       Test Num
000012C5  0000                               1064           DC    X'00',X'00'
000012C7  E0                                 1065           DC    X'E0'                       M3: A=1,F=1,L=1,--=0
000012C8  00001938 00000800                  1066           DC    A(TRTO1L0),A(2048)          Source - Op 1 & length
000012D0  00003138 00000200                  1067           DC    A(TRTOP20),A(512)           Source - FC Table & length
                                             1068 *                                           Target -
000012D8  00B80000 00C80000                  1069           DC    A(11*MB+(8*K64)),A(12*MB+(8*K64)),A(0)  FC, Op1, Op1L
000012E0  00000000
000012E4  AABBCCDD                           1070           DC    A(REG2PATT)
000012E8  00000007                           1071           DC    A(7) CC0
000012EC  00C80800 00000000                  1072           DC    A(12*MB+(8*K64)+2048),A(000),A(0)
000012F4  00000000
```

```
  LOC       OBJECT CODE      ADDR1     ADDR2     STMT

000012F8                                         1074 M14T10    DS      0F
000012F8    EA                                   1075           DC      X'EA'                      Test Num
000012F9    0000                                 1076           DC      X'00',X'00'
000012FB    E0                                   1077           DC      X'E0'                      M3: A=1,F=1,L=1,--=0
000012FC    00002138 00000800                    1078           DC      A(TRTO1L11),A(2048)        Source - Op 1 & length
00001304    00023438 00000200                    1079           DC      A(TRTOP411),A(512)         Source - FC Table & length
                                                 1080 *                                            Target -
0000130C    00B90000 00C8FF38                    1081           DC      A(11*MB+(9*K64)),A(12*MB+(9*K64)-200),A(0) FC, Op1, Op1L
00001314    00000000
00001318    AABBCCDD                             1082           DC      A(REG2PATT)
0000131C    0000000A                             1083           DC      A(10) CC1 or CC3
00001320    00C90338 00000400                    1084           DC      A(12*MB+(9*K64)-200+(4*256)),A(1024),XL4'11'
00001328    00000011


0000132C                                         1086 M14T11    DS      0F
0000132C    EB                                   1087           DC      X'EB'                      Test Num
0000132D    0000                                 1088           DC      X'00',X'00'
0000132F    E0                                   1089           DC      X'E0'                      M3: A=1,F=1,L=1,--=0
00001330    00002938 00000800                    1090           DC      A(TRTO1LF0),A(2048)        Source - Op 1 & length
00001338    00023638 00000200                    1091           DC      A(TRTOP4F0),A(512)         Source - FC Table & length
                                                 1092 *                                            Target -  FC, Op1, Op1L
00001340    00B9FFC0 00CA0000                    1093           DC      A(11*MB+(10*K64)-64),A(12*MB+(10*K64)),A(0)
00001348    00000000
0000134C    AABBCCDD                             1094           DC      A(REG2PATT)
00001350    0000000B                             1095           DC      A(11) CC1
00001354    00CA07FE 00000002                    1096           DC      A(12*MB+(10*K64)+2048-2),A(2),XL4'F0'
0000135C    000000F0
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

                                                  1098 ****************************************************************************
                                                  1099 *          Check performance tests are valid.
                                                  1100 *          tests with   M3: A=1,F=1,L=0, reserved=0    (12)
                                                  1101 *                        FC Table : SIZE: 131,072 (2 BYTE ARGUMENT)
                                                  1102 *                               Function Code is 2 bytes
                                                  1103 *
                                                  1104 *                   Note: Op1 length must be a multiple of 2
                                                  1105 ****************************************************************************


00001360                                          1107 F12T8     DS    0F
00001360   F8                                     1108           DC    X'F8'                      Test Num
00001361   0000                                   1109           DC    X'00',X'00'
00001363   C0                                     1110           DC    X'C0'                      M3: A=1,F=1,L=0,--=0
00001364   00001738 00000200                      1111           DC    A(TRTOP1F1),A(512)         Source - Op 1 & length
0000136C   000C3D5A 00020000                      1112           DC    A(TRTOPCF1),A(2*K64)       Source - FC Table & length
                                                  1113 *                                         Target -
00001374   00710000 00910000                      1114           DC    A(7*MB+(1*K64)),A(9*MB+(1*K64)),A(0)  FC, Op1, Op1L
0000137C   00000000
00001380   AABBCCDD                               1115           DC    A(REG2PATT)
00001384   0000000B                               1116           DC    A(11) CC1
00001388   009101FE 00000002                      1117           DC    A(9*MB+(1*K64)+510),A(2),XL4'F1'
00001390   000000F1


00001394                                          1119 F12T8A    DS    0F
00001394   F9                                     1120           DC    X'F9'                      Test Num
00001395   0000                                   1121           DC    X'00',X'00'
00001397   C0                                     1122           DC    X'C0'                      M3: A=1,F=1,L=0,--=0
00001398   00001738 00000200                      1123           DC    A(TRTOP1F1),A(512)         Source - Op 1 & length
000013A0   000C3D5A 00020000                      1124           DC    A(TRTOPCF1),A(2*K64)       Source - FC Table & length
                                                  1125 *                                         Target - FC, Op1, Op1L
000013A8   0072FF81 0092FF81                       1126           DC    A(7*MB+(3*K64)-127),A(9*MB+(3*K64)-127),A(0)
000013B0   00000000
000013B4   AABBCCDD                               1127           DC    A(REG2PATT)
000013B8   0000000A                               1128           DC    A(10) CC1 or CC3
000013BC   0093017F 00000002                      1129           DC    A(9*MB+(3*K64)-127+510),A(2),XL4'F1'
000013C4   000000F1


000013C8                                          1131 F12T11    DS    0F
000013C8   FB                                     1132           DC    X'FB'                      Test Num
000013C9   0000                                   1133           DC    X'00',X'00'
000013CB   C0                                     1134           DC    X'C0'                      M3: A=1,F=1,L=0,--=0
000013CC   00002938 00000800                      1135           DC    A(TRTO1LF0),A(2048)        Source - Op 1 & length
000013D4   000A3B5C 00020000                      1136           DC    A(TRTOPCF0),A(2*K64)       Source - FC Table & length
                                                  1137 *                                         Target -
000013DC   00760000 00960000                      1138           DC    A(7*MB+(6*K64)),A(9*MB+(6*K64)),A(0) FC, Op1, Op1L
000013E4   00000000
000013E8   AABBCCDD                               1139           DC    A(REG2PATT)
000013EC   0000000B                               1140           DC    A(11) CC1
000013F0   009607FE 00000002                      1141           DC    A(9*MB+(6*K64)+2048-2),A(2),XL4'F0'
000013F8   000000F0
```

```
 LOC        OBJECT CODE      ADDR1    ADDR2     STMT

000013FC                              1143 F12T11A  DS   0F
000013FC  FC                          1144         DC   X'FC'                    Test Num
000013FD  0000                        1145         DC   X'00',X'00'
000013FF  C0                          1146         DC   X'C0'                    M3: A=1,F=1,L=0,--=0
00001400  00002938 00000800           1147         DC   A(TRTO1LF0),A(2048)      Source - Op 1 & length
00001408  000A3B5C 00020000           1148         DC   A(TRTOPCF0),A(2*K64)     Source - FC Table & length
                                      1149 *                                     Target - FC, Op1, Op1L
00001410  0078FE1F 0098FE1F           1150         DC   A(7*MB+(9*K64)-481),A(9*MB+(9*K64)-481),A(0)
00001418  00000000
0000141C  AABBCCDD                    1151         DC   A(REG2PATT)
00001420  0000000A                    1152         DC   A(10) CC1 or CC3
00001424  0099061D 00000002           1153         DC   A(9*MB+(9*K64)-481+2048-2),A(2),XL4'F0'
0000142C  000000F0


00001430  00000000                    1155         DC   A(0)     end of table
00001434  00000000                    1156         DC   A(0)     end of table
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   1158 **************************************************************************
                                                   1159 *         TRTE op1 scan data...
                                                   1160 **************************************************************************

00001438   78125634 78125634                       1162 TRTOP10  DC     64XL4'78125634'                          (CC0)
00001440   78125634 78125634
00001448   78125634 78125634
00001450   78125634 78125634
00001458   78125634 78125634
00001460   78125634 78125634
00001468   78125634 78125634
00001470   78125634 78125634
00001478   78125634 78125634
00001480   78125634 78125634
00001488   78125634 78125634
00001490   78125634 78125634
00001498   78125634 78125634
000014A0   78125634 78125634
000014A8   78125634 78125634
000014B0   78125634 78125634
000014B8   78125634 78125634
000014C0   78125634 78125634
000014C8   78125634 78125634
000014D0   78125634 78125634
000014D8   78125634 78125634
000014E0   78125634 78125634
000014E8   78125634 78125634
000014F0   78125634 78125634
000014F8   78125634 78125634
00001500   78125634 78125634
00001508   78125634 78125634
00001510   78125634 78125634
00001518   78125634 78125634
00001520   78125634 78125634
00001528   78125634 78125634
00001530   78125634 78125634

00001538   78125634 78125634                       1164 TRTOP111 DC     04XL4'78125634',X'00110000',59XL4'78125634'   (CC1)
00001540   78125634 78125634
00001548   00110000 78125634
00001550   78125634 78125634
00001558   78125634 78125634
00001560   78125634 78125634
00001568   78125634 78125634
00001570   78125634 78125634
00001578   78125634 78125634
00001580   78125634 78125634
00001588   78125634 78125634
00001590   78125634 78125634
00001598   78125634 78125634
000015A0   78125634 78125634
000015A8   78125634 78125634
000015B0   78125634 78125634
000015B8   78125634 78125634
000015C0   78125634 78125634
000015C8   78125634 78125634
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

000015D0   78125634 78125634
000015D8   78125634 78125634
000015E0   78125634 78125634
000015E8   78125634 78125634
000015F0   78125634 78125634
000015F8   78125634 78125634
00001600   78125634 78125634
00001608   78125634 78125634
00001610   78125634 78125634
00001618   78125634 78125634
00001620   78125634 78125634
00001628   78125634 78125634
00001630   78125634 78125634

00001638   78125634 78125634                        1166 TRTOP1F0 DC     63XL4'78125634',X'000000F0'               (CC1)
00001640   78125634 78125634
00001648   78125634 78125634
00001650   78125634 78125634
00001658   78125634 78125634
00001660   78125634 78125634
00001668   78125634 78125634
00001670   78125634 78125634
00001678   78125634 78125634
00001680   78125634 78125634
00001688   78125634 78125634
00001690   78125634 78125634
00001698   78125634 78125634
000016A0   78125634 78125634
000016A8   78125634 78125634
000016B0   78125634 78125634
000016B8   78125634 78125634
000016C0   78125634 78125634
000016C8   78125634 78125634
000016D0   78125634 78125634
000016D8   78125634 78125634
000016E0   78125634 78125634
000016E8   78125634 78125634
000016F0   78125634 78125634
000016F8   78125634 78125634
00001700   78125634 78125634
00001708   78125634 78125634
00001710   78125634 78125634
00001718   78125634 78125634
00001720   78125634 78125634
00001728   78125634 78125634
00001730   78125634 000000F0

00001738   78125634 78125634                        1168 TRTOP1F1 DC     127XL4'78125634',X'000000F1'              (CC1)
00001740   78125634 78125634
00001748   78125634 78125634
00001750   78125634 78125634
00001758   78125634 78125634
00001760   78125634 78125634
00001768   78125634 78125634
00001770   78125634 78125634
00001778   78125634 78125634
```

```
 LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00001780  78125634 78125634
00001788  78125634 78125634
00001790  78125634 78125634
00001798  78125634 78125634
000017A0  78125634 78125634
000017A8  78125634 78125634
000017B0  78125634 78125634
000017B8  78125634 78125634
000017C0  78125634 78125634
000017C8  78125634 78125634
000017D0  78125634 78125634
000017D8  78125634 78125634
000017E0  78125634 78125634
000017E8  78125634 78125634
000017F0  78125634 78125634
000017F8  78125634 78125634
00001800  78125634 78125634
00001808  78125634 78125634
00001810  78125634 78125634
00001818  78125634 78125634
00001820  78125634 78125634
00001828  78125634 78125634
00001830  78125634 78125634
00001838  78125634 78125634
00001840  78125634 78125634
00001848  78125634 78125634
00001850  78125634 78125634
00001858  78125634 78125634
00001860  78125634 78125634
00001868  78125634 78125634
00001870  78125634 78125634
00001878  78125634 78125634
00001880  78125634 78125634
00001888  78125634 78125634
00001890  78125634 78125634
00001898  78125634 78125634
000018A0  78125634 78125634
000018A8  78125634 78125634
000018B0  78125634 78125634
000018B8  78125634 78125634
000018C0  78125634 78125634
000018C8  78125634 78125634
000018D0  78125634 78125634
000018D8  78125634 78125634
000018E0  78125634 78125634
000018E8  78125634 78125634
000018F0  78125634 78125634
000018F8  78125634 78125634
00001900  78125634 78125634
00001908  78125634 78125634
00001910  78125634 78125634
00001918  78125634 78125634
00001920  78125634 78125634
00001928  78125634 78125634
00001930  78125634 000000F1
```

```
 LOC        OBJECT CODE       ADDR1    ADDR2    STMT

00001938  98765432 98765432                    1170 TRTO1L0  DC     512XL4'98765432'                                    (CC0)
00001940  98765432 98765432
00001948  98765432 98765432
00001950  98765432 98765432
00001958  98765432 98765432
00001960  98765432 98765432
00001968  98765432 98765432
00001970  98765432 98765432
00001978  98765432 98765432
00001980  98765432 98765432
00001988  98765432 98765432
00001990  98765432 98765432
00001998  98765432 98765432
000019A0  98765432 98765432
000019A8  98765432 98765432
000019B0  98765432 98765432
000019B8  98765432 98765432
000019C0  98765432 98765432
000019C8  98765432 98765432
000019D0  98765432 98765432
000019D8  98765432 98765432
000019E0  98765432 98765432
000019E8  98765432 98765432
000019F0  98765432 98765432
000019F8  98765432 98765432
00001A00  98765432 98765432
00001A08  98765432 98765432
00001A10  98765432 98765432
00001A18  98765432 98765432
00001A20  98765432 98765432
00001A28  98765432 98765432
00001A30  98765432 98765432
00001A38  98765432 98765432
00001A40  98765432 98765432
00001A48  98765432 98765432
00001A50  98765432 98765432
00001A58  98765432 98765432
00001A60  98765432 98765432
00001A68  98765432 98765432
00001A70  98765432 98765432
00001A78  98765432 98765432
00001A80  98765432 98765432
00001A88  98765432 98765432
00001A90  98765432 98765432
00001A98  98765432 98765432
00001AA0  98765432 98765432
00001AA8  98765432 98765432
00001AB0  98765432 98765432
00001AB8  98765432 98765432
00001AC0  98765432 98765432
00001AC8  98765432 98765432
00001AD0  98765432 98765432
00001AD8  98765432 98765432
00001AE0  98765432 98765432
00001AE8  98765432 98765432
00001AF0  98765432 98765432
```

```
  LOC        OBJECT CODE      ADDR1    ADDR2    STMT

00001AF8  98765432 98765432
00001B00  98765432 98765432
00001B08  98765432 98765432
00001B10  98765432 98765432
00001B18  98765432 98765432
00001B20  98765432 98765432
00001B28  98765432 98765432
00001B30  98765432 98765432
00001B38  98765432 98765432
00001B40  98765432 98765432
00001B48  98765432 98765432
00001B50  98765432 98765432
00001B58  98765432 98765432
00001B60  98765432 98765432
00001B68  98765432 98765432
00001B70  98765432 98765432
00001B78  98765432 98765432
00001B80  98765432 98765432
00001B88  98765432 98765432
00001B90  98765432 98765432
00001B98  98765432 98765432
00001BA0  98765432 98765432
00001BA8  98765432 98765432
00001BB0  98765432 98765432
00001BB8  98765432 98765432
00001BC0  98765432 98765432
00001BC8  98765432 98765432
00001BD0  98765432 98765432
00001BD8  98765432 98765432
00001BE0  98765432 98765432
00001BE8  98765432 98765432
00001BF0  98765432 98765432
00001BF8  98765432 98765432
00001C00  98765432 98765432
00001C08  98765432 98765432
00001C10  98765432 98765432
00001C18  98765432 98765432
00001C20  98765432 98765432
00001C28  98765432 98765432
00001C30  98765432 98765432
00001C38  98765432 98765432
00001C40  98765432 98765432
00001C48  98765432 98765432
00001C50  98765432 98765432
00001C58  98765432 98765432
00001C60  98765432 98765432
00001C68  98765432 98765432
00001C70  98765432 98765432
00001C78  98765432 98765432
00001C80  98765432 98765432
00001C88  98765432 98765432
00001C90  98765432 98765432
00001C98  98765432 98765432
00001CA0  98765432 98765432
00001CA8  98765432 98765432
00001CB0  98765432 98765432
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00001CB8   98765432 98765432
00001CC0   98765432 98765432
00001CC8   98765432 98765432
00001CD0   98765432 98765432
00001CD8   98765432 98765432
00001CE0   98765432 98765432
00001CE8   98765432 98765432
00001CF0   98765432 98765432
00001CF8   98765432 98765432
00001D00   98765432 98765432
00001D08   98765432 98765432
00001D10   98765432 98765432
00001D18   98765432 98765432
00001D20   98765432 98765432
00001D28   98765432 98765432
00001D30   98765432 98765432
00001D38   98765432 98765432
00001D40   98765432 98765432
00001D48   98765432 98765432
00001D50   98765432 98765432
00001D58   98765432 98765432
00001D60   98765432 98765432
00001D68   98765432 98765432
00001D70   98765432 98765432
00001D78   98765432 98765432
00001D80   98765432 98765432
00001D88   98765432 98765432
00001D90   98765432 98765432
00001D98   98765432 98765432
00001DA0   98765432 98765432
00001DA8   98765432 98765432
00001DB0   98765432 98765432
00001DB8   98765432 98765432
00001DC0   98765432 98765432
00001DC8   98765432 98765432
00001DD0   98765432 98765432
00001DD8   98765432 98765432
00001DE0   98765432 98765432
00001DE8   98765432 98765432
00001DF0   98765432 98765432
00001DF8   98765432 98765432
00001E00   98765432 98765432
00001E08   98765432 98765432
00001E10   98765432 98765432
00001E18   98765432 98765432
00001E20   98765432 98765432
00001E28   98765432 98765432
00001E30   98765432 98765432
00001E38   98765432 98765432
00001E40   98765432 98765432
00001E48   98765432 98765432
00001E50   98765432 98765432
00001E58   98765432 98765432
00001E60   98765432 98765432
00001E68   98765432 98765432
00001E70   98765432 98765432
```

```
 LOC          OBJECT CODE       ADDR1    ADDR2    STMT

00001E78  98765432 98765432
00001E80  98765432 98765432
00001E88  98765432 98765432
00001E90  98765432 98765432
00001E98  98765432 98765432
00001EA0  98765432 98765432
00001EA8  98765432 98765432
00001EB0  98765432 98765432
00001EB8  98765432 98765432
00001EC0  98765432 98765432
00001EC8  98765432 98765432
00001ED0  98765432 98765432
00001ED8  98765432 98765432
00001EE0  98765432 98765432
00001EE8  98765432 98765432
00001EF0  98765432 98765432
00001EF8  98765432 98765432
00001F00  98765432 98765432
00001F08  98765432 98765432
00001F10  98765432 98765432
00001F18  98765432 98765432
00001F20  98765432 98765432
00001F28  98765432 98765432
00001F30  98765432 98765432
00001F38  98765432 98765432
00001F40  98765432 98765432
00001F48  98765432 98765432
00001F50  98765432 98765432
00001F58  98765432 98765432
00001F60  98765432 98765432
00001F68  98765432 98765432
00001F70  98765432 98765432
00001F78  98765432 98765432
00001F80  98765432 98765432
00001F88  98765432 98765432
00001F90  98765432 98765432
00001F98  98765432 98765432
00001FA0  98765432 98765432
00001FA8  98765432 98765432
00001FB0  98765432 98765432
00001FB8  98765432 98765432
00001FC0  98765432 98765432
00001FC8  98765432 98765432
00001FD0  98765432 98765432
00001FD8  98765432 98765432
00001FE0  98765432 98765432
00001FE8  98765432 98765432
00001FF0  98765432 98765432
00001FF8  98765432 98765432
00002000  98765432 98765432
00002008  98765432 98765432
00002010  98765432 98765432
00002018  98765432 98765432
00002020  98765432 98765432
00002028  98765432 98765432
00002030  98765432 98765432
```

```
  LOC        OBJECT CODE       ADDR1    ADDR2    STMT

00002038  98765432 98765432
00002040  98765432 98765432
00002048  98765432 98765432
00002050  98765432 98765432
00002058  98765432 98765432
00002060  98765432 98765432
00002068  98765432 98765432
00002070  98765432 98765432
00002078  98765432 98765432
00002080  98765432 98765432
00002088  98765432 98765432
00002090  98765432 98765432
00002098  98765432 98765432
000020A0  98765432 98765432
000020A8  98765432 98765432
000020B0  98765432 98765432
000020B8  98765432 98765432
000020C0  98765432 98765432
000020C8  98765432 98765432
000020D0  98765432 98765432
000020D8  98765432 98765432
000020E0  98765432 98765432
000020E8  98765432 98765432
000020F0  98765432 98765432
000020F8  98765432 98765432
00002100  98765432 98765432
00002108  98765432 98765432
00002110  98765432 98765432
00002118  98765432 98765432
00002120  98765432 98765432
00002128  98765432 98765432
00002130  98765432 98765432

00002138  98765432 98765432                          1172 TRTO1L11 DC     256XL4'98765432',X'00110000',255XL4'98765432' (CC1)
00002140  98765432 98765432
00002148  98765432 98765432
00002150  98765432 98765432
00002158  98765432 98765432
00002160  98765432 98765432
00002168  98765432 98765432
00002170  98765432 98765432
00002178  98765432 98765432
00002180  98765432 98765432
00002188  98765432 98765432
00002190  98765432 98765432
00002198  98765432 98765432
000021A0  98765432 98765432
000021A8  98765432 98765432
000021B0  98765432 98765432
000021B8  98765432 98765432
000021C0  98765432 98765432
000021C8  98765432 98765432
000021D0  98765432 98765432
000021D8  98765432 98765432
000021E0  98765432 98765432
000021E8  98765432 98765432
```

```
  LOC        OBJECT CODE      ADDR1    ADDR2    STMT

000021F0   98765432 98765432
000021F8   98765432 98765432
00002200   98765432 98765432
00002208   98765432 98765432
00002210   98765432 98765432
00002218   98765432 98765432
00002220   98765432 98765432
00002228   98765432 98765432
00002230   98765432 98765432
00002238   98765432 98765432
00002240   98765432 98765432
00002248   98765432 98765432
00002250   98765432 98765432
00002258   98765432 98765432
00002260   98765432 98765432
00002268   98765432 98765432
00002270   98765432 98765432
00002278   98765432 98765432
00002280   98765432 98765432
00002288   98765432 98765432
00002290   98765432 98765432
00002298   98765432 98765432
000022A0   98765432 98765432
000022A8   98765432 98765432
000022B0   98765432 98765432
000022B8   98765432 98765432
000022C0   98765432 98765432
000022C8   98765432 98765432
000022D0   98765432 98765432
000022D8   98765432 98765432
000022E0   98765432 98765432
000022E8   98765432 98765432
000022F0   98765432 98765432
000022F8   98765432 98765432
00002300   98765432 98765432
00002308   98765432 98765432
00002310   98765432 98765432
00002318   98765432 98765432
00002320   98765432 98765432
00002328   98765432 98765432
00002330   98765432 98765432
00002338   98765432 98765432
00002340   98765432 98765432
00002348   98765432 98765432
00002350   98765432 98765432
00002358   98765432 98765432
00002360   98765432 98765432
00002368   98765432 98765432
00002370   98765432 98765432
00002378   98765432 98765432
00002380   98765432 98765432
00002388   98765432 98765432
00002390   98765432 98765432
00002398   98765432 98765432
000023A0   98765432 98765432
000023A8   98765432 98765432
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
000023B0	98765432 98765432			
000023B8	98765432 98765432			
000023C0	98765432 98765432			
000023C8	98765432 98765432			
000023D0	98765432 98765432			
000023D8	98765432 98765432			
000023E0	98765432 98765432			
000023E8	98765432 98765432			
000023F0	98765432 98765432			
000023F8	98765432 98765432			
00002400	98765432 98765432			
00002408	98765432 98765432			
00002410	98765432 98765432			
00002418	98765432 98765432			
00002420	98765432 98765432			
00002428	98765432 98765432			
00002430	98765432 98765432			
00002438	98765432 98765432			
00002440	98765432 98765432			
00002448	98765432 98765432			
00002450	98765432 98765432			
00002458	98765432 98765432			
00002460	98765432 98765432			
00002468	98765432 98765432			
00002470	98765432 98765432			
00002478	98765432 98765432			
00002480	98765432 98765432			
00002488	98765432 98765432			
00002490	98765432 98765432			
00002498	98765432 98765432			
000024A0	98765432 98765432			
000024A8	98765432 98765432			
000024B0	98765432 98765432			
000024B8	98765432 98765432			
000024C0	98765432 98765432			
000024C8	98765432 98765432			
000024D0	98765432 98765432			
000024D8	98765432 98765432			
000024E0	98765432 98765432			
000024E8	98765432 98765432			
000024F0	98765432 98765432			
000024F8	98765432 98765432			
00002500	98765432 98765432			
00002508	98765432 98765432			
00002510	98765432 98765432			
00002518	98765432 98765432			
00002520	98765432 98765432			
00002528	98765432 98765432			
00002530	98765432 98765432			
00002538	00110000 98765432			
00002540	98765432 98765432			
00002548	98765432 98765432			
00002550	98765432 98765432			
00002558	98765432 98765432			
00002560	98765432 98765432			
00002568	98765432 98765432			

```
 LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00002570   98765432 98765432
00002578   98765432 98765432
00002580   98765432 98765432
00002588   98765432 98765432
00002590   98765432 98765432
00002598   98765432 98765432
000025A0   98765432 98765432
000025A8   98765432 98765432
000025B0   98765432 98765432
000025B8   98765432 98765432
000025C0   98765432 98765432
000025C8   98765432 98765432
000025D0   98765432 98765432
000025D8   98765432 98765432
000025E0   98765432 98765432
000025E8   98765432 98765432
000025F0   98765432 98765432
000025F8   98765432 98765432
00002600   98765432 98765432
00002608   98765432 98765432
00002610   98765432 98765432
00002618   98765432 98765432
00002620   98765432 98765432
00002628   98765432 98765432
00002630   98765432 98765432
00002638   98765432 98765432
00002640   98765432 98765432
00002648   98765432 98765432
00002650   98765432 98765432
00002658   98765432 98765432
00002660   98765432 98765432
00002668   98765432 98765432
00002670   98765432 98765432
00002678   98765432 98765432
00002680   98765432 98765432
00002688   98765432 98765432
00002690   98765432 98765432
00002698   98765432 98765432
000026A0   98765432 98765432
000026A8   98765432 98765432
000026B0   98765432 98765432
000026B8   98765432 98765432
000026C0   98765432 98765432
000026C8   98765432 98765432
000026D0   98765432 98765432
000026D8   98765432 98765432
000026E0   98765432 98765432
000026E8   98765432 98765432
000026F0   98765432 98765432
000026F8   98765432 98765432
00002700   98765432 98765432
00002708   98765432 98765432
00002710   98765432 98765432
00002718   98765432 98765432
00002720   98765432 98765432
00002728   98765432 98765432
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00002730   98765432 98765432
00002738   98765432 98765432
00002740   98765432 98765432
00002748   98765432 98765432
00002750   98765432 98765432
00002758   98765432 98765432
00002760   98765432 98765432
00002768   98765432 98765432
00002770   98765432 98765432
00002778   98765432 98765432
00002780   98765432 98765432
00002788   98765432 98765432
00002790   98765432 98765432
00002798   98765432 98765432
000027A0   98765432 98765432
000027A8   98765432 98765432
000027B0   98765432 98765432
000027B8   98765432 98765432
000027C0   98765432 98765432
000027C8   98765432 98765432
000027D0   98765432 98765432
000027D8   98765432 98765432
000027E0   98765432 98765432
000027E8   98765432 98765432
000027F0   98765432 98765432
000027F8   98765432 98765432
00002800   98765432 98765432
00002808   98765432 98765432
00002810   98765432 98765432
00002818   98765432 98765432
00002820   98765432 98765432
00002828   98765432 98765432
00002830   98765432 98765432
00002838   98765432 98765432
00002840   98765432 98765432
00002848   98765432 98765432
00002850   98765432 98765432
00002858   98765432 98765432
00002860   98765432 98765432
00002868   98765432 98765432
00002870   98765432 98765432
00002878   98765432 98765432
00002880   98765432 98765432
00002888   98765432 98765432
00002890   98765432 98765432
00002898   98765432 98765432
000028A0   98765432 98765432
000028A8   98765432 98765432
000028B0   98765432 98765432
000028B8   98765432 98765432
000028C0   98765432 98765432
000028C8   98765432 98765432
000028D0   98765432 98765432
000028D8   98765432 98765432
000028E0   98765432 98765432
000028E8   98765432 98765432
```

```
  LOC        OBJECT CODE      ADDR1    ADDR2    STMT

000028F0  98765432 98765432
000028F8  98765432 98765432
00002900  98765432 98765432
00002908  98765432 98765432
00002910  98765432 98765432
00002918  98765432 98765432
00002920  98765432 98765432
00002928  98765432 98765432
00002930  98765432 98765432

00002938  98765432 98765432                      1174 TRTO1LF0 DC    511XL4'98765432',X'000000F0'                  (CC1)
00002940  98765432 98765432
00002948  98765432 98765432
00002950  98765432 98765432
00002958  98765432 98765432
00002960  98765432 98765432
00002968  98765432 98765432
00002970  98765432 98765432
00002978  98765432 98765432
00002980  98765432 98765432
00002988  98765432 98765432
00002990  98765432 98765432
00002998  98765432 98765432
000029A0  98765432 98765432
000029A8  98765432 98765432
000029B0  98765432 98765432
000029B8  98765432 98765432
000029C0  98765432 98765432
000029C8  98765432 98765432
000029D0  98765432 98765432
000029D8  98765432 98765432
000029E0  98765432 98765432
000029E8  98765432 98765432
000029F0  98765432 98765432
000029F8  98765432 98765432
00002A00  98765432 98765432
00002A08  98765432 98765432
00002A10  98765432 98765432
00002A18  98765432 98765432
00002A20  98765432 98765432
00002A28  98765432 98765432
00002A30  98765432 98765432
00002A38  98765432 98765432
00002A40  98765432 98765432
00002A48  98765432 98765432
00002A50  98765432 98765432
00002A58  98765432 98765432
00002A60  98765432 98765432
00002A68  98765432 98765432
00002A70  98765432 98765432
00002A78  98765432 98765432
00002A80  98765432 98765432
00002A88  98765432 98765432
00002A90  98765432 98765432
00002A98  98765432 98765432
00002AA0  98765432 98765432
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002AA8   98765432 98765432
00002AB0   98765432 98765432
00002AB8   98765432 98765432
00002AC0   98765432 98765432
00002AC8   98765432 98765432
00002AD0   98765432 98765432
00002AD8   98765432 98765432
00002AE0   98765432 98765432
00002AE8   98765432 98765432
00002AF0   98765432 98765432
00002AF8   98765432 98765432
00002B00   98765432 98765432
00002B08   98765432 98765432
00002B10   98765432 98765432
00002B18   98765432 98765432
00002B20   98765432 98765432
00002B28   98765432 98765432
00002B30   98765432 98765432
00002B38   98765432 98765432
00002B40   98765432 98765432
00002B48   98765432 98765432
00002B50   98765432 98765432
00002B58   98765432 98765432
00002B60   98765432 98765432
00002B68   98765432 98765432
00002B70   98765432 98765432
00002B78   98765432 98765432
00002B80   98765432 98765432
00002B88   98765432 98765432
00002B90   98765432 98765432
00002B98   98765432 98765432
00002BA0   98765432 98765432
00002BA8   98765432 98765432
00002BB0   98765432 98765432
00002BB8   98765432 98765432
00002BC0   98765432 98765432
00002BC8   98765432 98765432
00002BD0   98765432 98765432
00002BD8   98765432 98765432
00002BE0   98765432 98765432
00002BE8   98765432 98765432
00002BF0   98765432 98765432
00002BF8   98765432 98765432
00002C00   98765432 98765432
00002C08   98765432 98765432
00002C10   98765432 98765432
00002C18   98765432 98765432
00002C20   98765432 98765432
00002C28   98765432 98765432
00002C30   98765432 98765432
00002C38   98765432 98765432
00002C40   98765432 98765432
00002C48   98765432 98765432
00002C50   98765432 98765432
00002C58   98765432 98765432
00002C60   98765432 98765432
```

```
 LOC          OBJECT CODE         ADDR1     ADDR2     STMT

00002C68  98765432 98765432
00002C70  98765432 98765432
00002C78  98765432 98765432
00002C80  98765432 98765432
00002C88  98765432 98765432
00002C90  98765432 98765432
00002C98  98765432 98765432
00002CA0  98765432 98765432
00002CA8  98765432 98765432
00002CB0  98765432 98765432
00002CB8  98765432 98765432
00002CC0  98765432 98765432
00002CC8  98765432 98765432
00002CD0  98765432 98765432
00002CD8  98765432 98765432
00002CE0  98765432 98765432
00002CE8  98765432 98765432
00002CF0  98765432 98765432
00002CF8  98765432 98765432
00002D00  98765432 98765432
00002D08  98765432 98765432
00002D10  98765432 98765432
00002D18  98765432 98765432
00002D20  98765432 98765432
00002D28  98765432 98765432
00002D30  98765432 98765432
00002D38  98765432 98765432
00002D40  98765432 98765432
00002D48  98765432 98765432
00002D50  98765432 98765432
00002D58  98765432 98765432
00002D60  98765432 98765432
00002D68  98765432 98765432
00002D70  98765432 98765432
00002D78  98765432 98765432
00002D80  98765432 98765432
00002D88  98765432 98765432
00002D90  98765432 98765432
00002D98  98765432 98765432
00002DA0  98765432 98765432
00002DA8  98765432 98765432
00002DB0  98765432 98765432
00002DB8  98765432 98765432
00002DC0  98765432 98765432
00002DC8  98765432 98765432
00002DD0  98765432 98765432
00002DD8  98765432 98765432
00002DE0  98765432 98765432
00002DE8  98765432 98765432
00002DF0  98765432 98765432
00002DF8  98765432 98765432
00002E00  98765432 98765432
00002E08  98765432 98765432
00002E10  98765432 98765432
00002E18  98765432 98765432
00002E20  98765432 98765432
```

```
  LOC        OBJECT CODE      ADDR1    ADDR2    STMT

00002E28  98765432 98765432
00002E30  98765432 98765432
00002E38  98765432 98765432
00002E40  98765432 98765432
00002E48  98765432 98765432
00002E50  98765432 98765432
00002E58  98765432 98765432
00002E60  98765432 98765432
00002E68  98765432 98765432
00002E70  98765432 98765432
00002E78  98765432 98765432
00002E80  98765432 98765432
00002E88  98765432 98765432
00002E90  98765432 98765432
00002E98  98765432 98765432
00002EA0  98765432 98765432
00002EA8  98765432 98765432
00002EB0  98765432 98765432
00002EB8  98765432 98765432
00002EC0  98765432 98765432
00002EC8  98765432 98765432
00002ED0  98765432 98765432
00002ED8  98765432 98765432
00002EE0  98765432 98765432
00002EE8  98765432 98765432
00002EF0  98765432 98765432
00002EF8  98765432 98765432
00002F00  98765432 98765432
00002F08  98765432 98765432
00002F10  98765432 98765432
00002F18  98765432 98765432
00002F20  98765432 98765432
00002F28  98765432 98765432
00002F30  98765432 98765432
00002F38  98765432 98765432
00002F40  98765432 98765432
00002F48  98765432 98765432
00002F50  98765432 98765432
00002F58  98765432 98765432
00002F60  98765432 98765432
00002F68  98765432 98765432
00002F70  98765432 98765432
00002F78  98765432 98765432
00002F80  98765432 98765432
00002F88  98765432 98765432
00002F90  98765432 98765432
00002F98  98765432 98765432
00002FA0  98765432 98765432
00002FA8  98765432 98765432
00002FB0  98765432 98765432
00002FB8  98765432 98765432
00002FC0  98765432 98765432
00002FC8  98765432 98765432
00002FD0  98765432 98765432
00002FD8  98765432 98765432
00002FE0  98765432 98765432
```

```
   LOC       OBJECT CODE       ADDR1     ADDR2     STMT

00002FE8  98765432 98765432
00002FF0  98765432 98765432
00002FF8  98765432 98765432
00003000  98765432 98765432
00003008  98765432 98765432
00003010  98765432 98765432
00003018  98765432 98765432
00003020  98765432 98765432
00003028  98765432 98765432
00003030  98765432 98765432
00003038  98765432 98765432
00003040  98765432 98765432
00003048  98765432 98765432
00003050  98765432 98765432
00003058  98765432 98765432
00003060  98765432 98765432
00003068  98765432 98765432
00003070  98765432 98765432
00003078  98765432 98765432
00003080  98765432 98765432
00003088  98765432 98765432
00003090  98765432 98765432
00003098  98765432 98765432
000030A0  98765432 98765432
000030A8  98765432 98765432
000030B0  98765432 98765432
000030B8  98765432 98765432
000030C0  98765432 98765432
000030C8  98765432 98765432
000030D0  98765432 98765432
000030D8  98765432 98765432
000030E0  98765432 98765432
000030E8  98765432 98765432
000030F0  98765432 98765432
000030F8  98765432 98765432
00003100  98765432 98765432
00003108  98765432 98765432
00003110  98765432 98765432
00003118  98765432 98765432
00003120  98765432 98765432
00003128  98765432 98765432
00003130  98765432 000000F0
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

                                                  1176 ****************************************************************************
                                                  1177 *          Function Code (FC) Tables (GR1)
                                                  1178 ****************************************************************************

00003138   00000000 00000000                      1180 TRTOP20   DC     256X'00'                                no stop
00003140   00000000 00000000
00003148   00000000 00000000
00003150   00000000 00000000
00003158   00000000 00000000
00003160   00000000 00000000
00003168   00000000 00000000
00003170   00000000 00000000
00003178   00000000 00000000
00003180   00000000 00000000
00003188   00000000 00000000
00003190   00000000 00000000
00003198   00000000 00000000
000031A0   00000000 00000000
000031A8   00000000 00000000
000031B0   00000000 00000000
000031B8   00000000 00000000
000031C0   00000000 00000000
000031C8   00000000 00000000
000031D0   00000000 00000000
000031D8   00000000 00000000
000031E0   00000000 00000000
000031E8   00000000 00000000
000031F0   00000000 00000000
000031F8   00000000 00000000
00003200   00000000 00000000
00003208   00000000 00000000
00003210   00000000 00000000
00003218   00000000 00000000
00003220   00000000 00000000
00003228   00000000 00000000
00003230   00000000 00000000
00003238                      00003238  00023238  1181           ORG    *+2*K64

00023238   00000000 00000000                      1183 TRTOP211 DC     17X'00',X'11',238X'00'               stop on X'11'
00023240   00000000 00000000
00023248   00110000 00000000
00023250   00000000 00000000
00023258   00000000 00000000
00023260   00000000 00000000
00023268   00000000 00000000
00023270   00000000 00000000
00023278   00000000 00000000
00023280   00000000 00000000
00023288   00000000 00000000
00023290   00000000 00000000
00023298   00000000 00000000
000232A0   00000000 00000000
000232A8   00000000 00000000
000232B0   00000000 00000000
000232B8   00000000 00000000
000232C0   00000000 00000000
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000232C8  00000000 00000000
000232D0  00000000 00000000
000232D8  00000000 00000000
000232E0  00000000 00000000
000232E8  00000000 00000000
000232F0  00000000 00000000
000232F8  00000000 00000000
00023300  00000000 00000000
00023308  00000000 00000000
00023310  00000000 00000000
00023318  00000000 00000000
00023320  00000000 00000000
00023328  00000000 00000000
00023330  00000000 00000000

00023338  00000000 00000000                      1185 TRTOP2F0 DC    240X'00',X'F0',15X'00'            stop on X'F0'
00023340  00000000 00000000
00023348  00000000 00000000
00023350  00000000 00000000
00023358  00000000 00000000
00023360  00000000 00000000
00023368  00000000 00000000
00023370  00000000 00000000
00023378  00000000 00000000
00023380  00000000 00000000
00023388  00000000 00000000
00023390  00000000 00000000
00023398  00000000 00000000
000233A0  00000000 00000000
000233A8  00000000 00000000
000233B0  00000000 00000000
000233B8  00000000 00000000
000233C0  00000000 00000000
000233C8  00000000 00000000
000233D0  00000000 00000000
000233D8  00000000 00000000
000233E0  00000000 00000000
000233E8  00000000 00000000
000233F0  00000000 00000000
000233F8  00000000 00000000
00023400  00000000 00000000
00023408  00000000 00000000
00023410  00000000 00000000
00023418  00000000 00000000
00023420  00000000 00000000
00023428  F0000000 00000000
00023430  00000000 00000000

00023438  00000000 00000000                      1187 TRTOP411 DC    34X'00',X'0011',476X'00'          stop on X'11'
00023440  00000000 00000000
00023448  00000000 00000000
00023450  00000000 00000000
00023458  00000011 00000000
00023460  00000000 00000000
00023468  00000000 00000000
00023470  00000000 00000000
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT
00023478	00000000 00000000			
00023480	00000000 00000000			
00023488	00000000 00000000			
00023490	00000000 00000000			
00023498	00000000 00000000			
000234A0	00000000 00000000			
000234A8	00000000 00000000			
000234B0	00000000 00000000			
000234B8	00000000 00000000			
000234C0	00000000 00000000			
000234C8	00000000 00000000			
000234D0	00000000 00000000			
000234D8	00000000 00000000			
000234E0	00000000 00000000			
000234E8	00000000 00000000			
000234F0	00000000 00000000			
000234F8	00000000 00000000			
00023500	00000000 00000000			
00023508	00000000 00000000			
00023510	00000000 00000000			
00023518	00000000 00000000			
00023520	00000000 00000000			
00023528	00000000 00000000			
00023530	00000000 00000000			
00023538	00000000 00000000			
00023540	00000000 00000000			
00023548	00000000 00000000			
00023550	00000000 00000000			
00023558	00000000 00000000			
00023560	00000000 00000000			
00023568	00000000 00000000			
00023570	00000000 00000000			
00023578	00000000 00000000			
00023580	00000000 00000000			
00023588	00000000 00000000			
00023590	00000000 00000000			
00023598	00000000 00000000			
000235A0	00000000 00000000			
000235A8	00000000 00000000			
000235B0	00000000 00000000			
000235B8	00000000 00000000			
000235C0	00000000 00000000			
000235C8	00000000 00000000			
000235D0	00000000 00000000			
000235D8	00000000 00000000			
000235E0	00000000 00000000			
000235E8	00000000 00000000			
000235F0	00000000 00000000			
000235F8	00000000 00000000			
00023600	00000000 00000000			
00023608	00000000 00000000			
00023610	00000000 00000000			
00023618	00000000 00000000			
00023620	00000000 00000000			
00023628	00000000 00000000			
00023630	00000000 00000000			

```
  LOC          OBJECT CODE      ADDR1     ADDR2     STMT


00023638    00000000 00000000                      1189 TRTOP4F0 DC    480X'00',X'00F0',30X'00'          stop on X'F0'
00023640    00000000 00000000
00023648    00000000 00000000
00023650    00000000 00000000
00023658    00000000 00000000
00023660    00000000 00000000
00023668    00000000 00000000
00023670    00000000 00000000
00023678    00000000 00000000
00023680    00000000 00000000
00023688    00000000 00000000
00023690    00000000 00000000
00023698    00000000 00000000
000236A0    00000000 00000000
000236A8    00000000 00000000
000236B0    00000000 00000000
000236B8    00000000 00000000
000236C0    00000000 00000000
000236C8    00000000 00000000
000236D0    00000000 00000000
000236D8    00000000 00000000
000236E0    00000000 00000000
000236E8    00000000 00000000
000236F0    00000000 00000000
000236F8    00000000 00000000
00023700    00000000 00000000
00023708    00000000 00000000
00023710    00000000 00000000
00023718    00000000 00000000
00023720    00000000 00000000
00023728    00000000 00000000
00023730    00000000 00000000
00023738    00000000 00000000
00023740    00000000 00000000
00023748    00000000 00000000
00023750    00000000 00000000
00023758    00000000 00000000
00023760    00000000 00000000
00023768    00000000 00000000
00023770    00000000 00000000
00023778    00000000 00000000
00023780    00000000 00000000
00023788    00000000 00000000
00023790    00000000 00000000
00023798    00000000 00000000
000237A0    00000000 00000000
000237A8    00000000 00000000
000237B0    00000000 00000000
000237B8    00000000 00000000
000237C0    00000000 00000000
000237C8    00000000 00000000
000237D0    00000000 00000000
000237D8    00000000 00000000
000237E0    00000000 00000000
000237E8    00000000 00000000
```

```
 LOC         OBJECT CODE      ADDR1    ADDR2    STMT

000237F0  00000000 00000000
000237F8  00000000 00000000
00023800  00000000 00000000
00023808  00000000 00000000
00023810  00000000 00000000
00023818  00F00000 00000000
00023820  00000000 00000000
00023828  00000000 00000000
00023830  00000000 00000000

00023838  00000000 00000000                    1191 TRTOP811 DC    17X'00',X'11',238X'00'        stop on X'11'
00023840  00000000 00000000
00023848  00110000 00000000
00023850  00000000 00000000
00023858  00000000 00000000
00023860  00000000 00000000
00023868  00000000 00000000
00023870  00000000 00000000
00023878  00000000 00000000
00023880  00000000 00000000
00023888  00000000 00000000
00023890  00000000 00000000
00023898  00000000 00000000
000238A0  00000000 00000000
000238A8  00000000 00000000
000238B0  00000000 00000000
000238B8  00000000 00000000
000238C0  00000000 00000000
000238C8  00000000 00000000
000238D0  00000000 00000000
000238D8  00000000 00000000
000238E0  00000000 00000000
000238E8  00000000 00000000
000238F0  00000000 00000000
000238F8  00000000 00000000
00023900  00000000 00000000
00023908  00000000 00000000
00023910  00000000 00000000
00023918  00000000 00000000
00023920  00000000 00000000
00023928  00000000 00000000
00023930  00000000 00000000
00023938                      00023938  00043938  1192          ORG    *+2*K64

00043938  00000000 00000000                    1194 TRTOP8F0 DC    240X'00',X'F0',15X'00'        stop on X'F0'
00043940  00000000 00000000
00043948  00000000 00000000
00043950  00000000 00000000
00043958  00000000 00000000
00043960  00000000 00000000
00043968  00000000 00000000
00043970  00000000 00000000
00043978  00000000 00000000
00043980  00000000 00000000
00043988  00000000 00000000
00043990  00000000 00000000
```

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

00043998  00000000 00000000
000439A0  00000000 00000000
000439A8  00000000 00000000
000439B0  00000000 00000000
000439B8  00000000 00000000
000439C0  00000000 00000000
000439C8  00000000 00000000
000439D0  00000000 00000000
000439D8  00000000 00000000
000439E0  00000000 00000000
000439E8  00000000 00000000
000439F0  00000000 00000000
000439F8  00000000 00000000
00043A00  00000000 00000000
00043A08  00000000 00000000
00043A10  00000000 00000000
00043A18  00000000 00000000
00043A20  00000000 00000000
00043A28  F0000000 00000000
00043A30  00000000 00000000
00043A38                     00043A38  00063A38  1195          ORG     *+2*K64

00063A38  00000000 00000000                      1197 TRTOP8F1 DC      240X'00',X'00',X'F1',14X'00'      stop on X'F1'
00063A40  00000000 00000000
00063A48  00000000 00000000
00063A50  00000000 00000000
00063A58  00000000 00000000
00063A60  00000000 00000000
00063A68  00000000 00000000
00063A70  00000000 00000000
00063A78  00000000 00000000
00063A80  00000000 00000000
00063A88  00000000 00000000
00063A90  00000000 00000000
00063A98  00000000 00000000
00063AA0  00000000 00000000
00063AA8  00000000 00000000
00063AB0  00000000 00000000
00063AB8  00000000 00000000
00063AC0  00000000 00000000
00063AC8  00000000 00000000
00063AD0  00000000 00000000
00063AD8  00000000 00000000
00063AE0  00000000 00000000
00063AE8  00000000 00000000
00063AF0  00000000 00000000
00063AF8  00000000 00000000
00063B00  00000000 00000000
00063B08  00000000 00000000
00063B10  00000000 00000000
00063B18  00000000 00000000
00063B20  00000000 00000000
00063B28  00F10000 00000000
00063B30  00000000 00000000
00063B38                     00063B38  00083B38  1198          ORG     *+2*K64
```

LOC	OBJECT CODE	ADDR1	ADDR2	STMT			
00083B38	00000000 00000000			1200	TRTOPC11 DC	34X'00',X'0011'	stop on X'11'
00083B40	00000000 00000000						
00083B48	00000000 00000000						
00083B50	00000000 00000000						
00083B58	00000011						
00083B5C		00083B5C	000A3B5C	1201	ORG	*+2*K64	
000A3B5C	00000000 00000000			1203	TRTOPCF0 DC	480X'00',X'00F0',28X'00'	stop on X'F0'
000A3B64	00000000 00000000						
000A3B6C	00000000 00000000						
000A3B74	00000000 00000000						
000A3B7C	00000000 00000000						
000A3B84	00000000 00000000						
000A3B8C	00000000 00000000						
000A3B94	00000000 00000000						
000A3B9C	00000000 00000000						
000A3BA4	00000000 00000000						
000A3BAC	00000000 00000000						
000A3BB4	00000000 00000000						
000A3BBC	00000000 00000000						
000A3BC4	00000000 00000000						
000A3BCC	00000000 00000000						
000A3BD4	00000000 00000000						
000A3BDC	00000000 00000000						
000A3BE4	00000000 00000000						
000A3BEC	00000000 00000000						
000A3BF4	00000000 00000000						
000A3BFC	00000000 00000000						
000A3C04	00000000 00000000						
000A3C0C	00000000 00000000						
000A3C14	00000000 00000000						
000A3C1C	00000000 00000000						
000A3C24	00000000 00000000						
000A3C2C	00000000 00000000						
000A3C34	00000000 00000000						
000A3C3C	00000000 00000000						
000A3C44	00000000 00000000						
000A3C4C	00000000 00000000						
000A3C54	00000000 00000000						
000A3C5C	00000000 00000000						
000A3C64	00000000 00000000						
000A3C6C	00000000 00000000						
000A3C74	00000000 00000000						
000A3C7C	00000000 00000000						
000A3C84	00000000 00000000						
000A3C8C	00000000 00000000						
000A3C94	00000000 00000000						
000A3C9C	00000000 00000000						
000A3CA4	00000000 00000000						
000A3CAC	00000000 00000000						
000A3CB4	00000000 00000000						
000A3CBC	00000000 00000000						
000A3CC4	00000000 00000000						
000A3CCC	00000000 00000000						
000A3CD4	00000000 00000000						
000A3CDC	00000000 00000000						

```
  LOC        OBJECT CODE      ADDR1     ADDR2     STMT

000A3CE4  00000000 00000000
000A3CEC  00000000 00000000
000A3CF4  00000000 00000000
000A3CFC  00000000 00000000
000A3D04  00000000 00000000
000A3D0C  00000000 00000000
000A3D14  00000000 00000000
000A3D1C  00000000 00000000
000A3D24  00000000 00000000
000A3D2C  00000000 00000000
000A3D34  00000000 00000000
000A3D3C  00F00000 00000000
000A3D44  00000000 00000000
000A3D4C  00000000 00000000
000A3D54  00000000 0000
000A3D5A                     000A3D5A  000C3D5A  1204          ORG     *+2*K64

000C3D5A  00000000 00000000            1206 TRTOPCF1 DC      480X'00',X'0000',X'00F1',28X'00'    stop on X'F1'
000C3D62  00000000 00000000
000C3D6A  00000000 00000000
000C3D72  00000000 00000000
000C3D7A  00000000 00000000
000C3D82  00000000 00000000
000C3D8A  00000000 00000000
000C3D92  00000000 00000000
000C3D9A  00000000 00000000
000C3DA2  00000000 00000000
000C3DAA  00000000 00000000
000C3DB2  00000000 00000000
000C3DBA  00000000 00000000
000C3DC2  00000000 00000000
000C3DCA  00000000 00000000
000C3DD2  00000000 00000000
000C3DDA  00000000 00000000
000C3DE2  00000000 00000000
000C3DEA  00000000 00000000
000C3DF2  00000000 00000000
000C3DFA  00000000 00000000
000C3E02  00000000 00000000
000C3E0A  00000000 00000000
000C3E12  00000000 00000000
000C3E1A  00000000 00000000
000C3E22  00000000 00000000
000C3E2A  00000000 00000000
000C3E32  00000000 00000000
000C3E3A  00000000 00000000
000C3E42  00000000 00000000
000C3E4A  00000000 00000000
000C3E52  00000000 00000000
000C3E5A  00000000 00000000
000C3E62  00000000 00000000
000C3E6A  00000000 00000000
000C3E72  00000000 00000000
000C3E7A  00000000 00000000
000C3E82  00000000 00000000
000C3E8A  00000000 00000000
```

```
  LOC       OBJECT CODE     ADDR1     ADDR2     STMT

000C3E92  00000000 00000000
000C3E9A  00000000 00000000
000C3EA2  00000000 00000000
000C3EAA  00000000 00000000
000C3EB2  00000000 00000000
000C3EBA  00000000 00000000
000C3EC2  00000000 00000000
000C3ECA  00000000 00000000
000C3ED2  00000000 00000000
000C3EDA  00000000 00000000
000C3EE2  00000000 00000000
000C3EEA  00000000 00000000
000C3EF2  00000000 00000000
000C3EFA  00000000 00000000
000C3F02  00000000 00000000
000C3F0A  00000000 00000000
000C3F12  00000000 00000000
000C3F1A  00000000 00000000
000C3F22  00000000 00000000
000C3F2A  00000000 00000000
000C3F32  00000000 00000000
000C3F3A  000000F1 00000000
000C3F42  00000000 00000000
000C3F4A  00000000 00000000
000C3F52  00000000 00000000
000C3F5A                    000C3F5A  000E3F5A  1207          ORG   *+2*K64
```

```
 LOC        OBJECT CODE      ADDR1     ADDR2     STMT

                                                1209 *******************************************************************
                                                1210 *         Register equates
                                                1211 *******************************************************************

                            00000000  00000001  1213 R0      EQU   0
                            00000001  00000001  1214 R1      EQU   1
                            00000002  00000001  1215 R2      EQU   2
                            00000003  00000001  1216 R3      EQU   3
                            00000004  00000001  1217 R4      EQU   4
                            00000005  00000001  1218 R5      EQU   5
                            00000006  00000001  1219 R6      EQU   6
                            00000007  00000001  1220 R7      EQU   7
                            00000008  00000001  1221 R8      EQU   8
                            00000009  00000001  1222 R9      EQU   9
                            0000000A  00000001  1223 R10     EQU   10
                            0000000B  00000001  1224 R11     EQU   11
                            0000000C  00000001  1225 R12     EQU   12
                            0000000D  00000001  1226 R13     EQU   13
                            0000000E  00000001  1227 R14     EQU   14
                            0000000F  00000001  1228 R15     EQU   15


                                                1230           END
```

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
BEGIN	I	00000200	2	79	46	76	77	194									
ENDREGS	A	00000028	4	246	166												
EOJ	I	000005D8	4	202	102												
EOJPSW	D	000005C8	8	200	202												
F12T11	F	000013C8	4	1131													
F12T11A	F	000013FC	4	1143													
F12T8	F	00001360	4	1107													
F12T8A	F	00001394	4	1119													
FAILMASK	A	00000024	4	243	153												
FAILPSW	D	000005E0	8	204	206												
FAILTEST	I	000005F0	4	206	97	100	185										
IMAGE	1	00000000	933722	0													
K	U	00000400	1	215	216	217	218										
K64	U	00010000	1	217	1181	1192	1195	1198	1201	1204	1207	275	278	287	290	299	302
					311	314	323	326	335	338	347	350	359	362	371	374	383
					386	395	398	412	415	424	427	436	439	448	451	460	463
					472	475	484	487	496	499	508	511	520	523	532	535	549
					551	554	561	563	566	573	575	578	585	587	590	597	599
					602	609	611	614	621	623	626	633	635	638	645	647	650
					657	659	662	669	671	674	692	695	704	707	716	719	728
					731	740	743	752	755	764	767	776	779	788	791	800	803
					812	815	830	832	835	842	844	847	854	856	859	866	868
					871	878	880	883	890	892	895	902	904	907	914	916	919
					926	928	931	938	940	943	950	952	955	973	976	985	988
					997	1000	1009	1012	1021	1024	1033	1036	1045	1048	1057	1060	1069
					1072	1081	1084	1093	1096	1112	1114	1117	1124	1126	1129	1136	1138
					1141	1148	1150	1153									
M0T1	F	000005F8	4	268													
M0T10	F	000007CC	4	376													
M0T11	F	00000800	4	388													
M0T2	F	0000062C	4	280													
M0T3	F	00000660	4	292													
M0T4	F	00000694	4	304													
M0T5	F	000006C8	4	316													
M0T6	F	000006FC	4	328													
M0T7	F	00000730	4	340													
M0T8	F	00000764	4	352													
M0T9	F	00000798	4	364													
M10T1	F	00000CAC	4	685													
M10T10	F	00000E80	4	793													
M10T11	F	00000EB4	4	805													
M10T2	F	00000CE0	4	697													
M10T3	F	00000D14	4	709													
M10T4	F	00000D48	4	721													
M10T5	F	00000D7C	4	733													
M10T6	F	00000DB0	4	745													
M10T7	F	00000DE4	4	757													
M10T8	F	00000E18	4	769													
M10T9	F	00000E4C	4	781													
M12T1	F	00000EE8	4	825													
M12T10	F	000010BC	4	933													
M12T11	F	000010F0	4	945													
M12T2	F	00000F1C	4	837													
M12T3	F	00000F50	4	849													
M12T4	F	00000F84	4	861													
M12T5	F	00000FB8	4	873													

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES													
M12T6	F	00000FEC	4	885														
M12T7	F	00001020	4	897														
M12T8	F	00001054	4	909														
M12T9	F	00001088	4	921														
M14T1	F	00001124	4	966														
M14T10	F	000012F8	4	1074														
M14T11	F	0000132C	4	1086														
M14T2	F	00001158	4	978														
M14T3	F	0000118C	4	990														
M14T4	F	000011C0	4	1002														
M14T5	F	000011F4	4	1014														
M14T6	F	00001228	4	1026														
M14T7	F	0000125C	4	1038														
M14T8	F	00001290	4	1050														
M14T9	F	000012C4	4	1062														
M3	X	00000003	1	230	150													
M4T1	F	00000834	4	405														
M4T10	F	00000A08	4	513														
M4T11	F	00000A3C	4	525														
M4T2	F	00000868	4	417														
M4T3	F	0000089C	4	429														
M4T4	F	000008D0	4	441														
M4T5	F	00000904	4	453														
M4T6	F	00000938	4	465														
M4T7	F	0000096C	4	477														
M4T8	F	000009A0	4	489														
M4T9	F	000009D4	4	501														
M8T1	F	00000A70	4	544														
M8T10	F	00000C44	4	652														
M8T11	F	00000C78	4	664														
M8T2	F	00000AA4	4	556														
M8T3	F	00000AD8	4	568														
M8T4	F	00000B0C	4	580														
M8T5	F	00000B40	4	592														
M8T6	F	00000B74	4	604														
M8T7	F	00000BA8	4	616														
M8T8	F	00000BDC	4	628														
M8T9	F	00000C10	4	640														
MB	U	00100000	1	218	275	278	287	290	299	302	311	314	323	326	335	338	347
					350	359	362	371	374	383	386	395	398	412	415	424	427
					436	439	448	451	460	463	472	475	484	487	496	499	508
					511	520	523	532	535	551	554	563	566	575	578	587	590
					599	602	611	614	623	626	635	638	647	650	659	662	671
					674	692	695	704	707	716	719	728	731	740	743	752	755
					764	767	776	779	788	791	800	803	812	815	832	835	844
					847	856	859	868	871	880	883	892	895	904	907	916	919
					928	931	940	943	952	955	973	976	985	988	997	1000	1009
					1012	1021	1024	1033	1036	1045	1048	1057	1060	1069	1072	1081	1084
					1093	1096	1114	1117	1126	1129	1138	1141	1150	1153			
OP1DATA	A	00000004	4	232	134													
OP1LEN	F	00000008	4	233	132	135												
OP1WHERE	A	00000018	4	239	131													
OP1WLEN	F	0000001C	4	240	133													
OP2DATA	A	0000000C	4	234	140													
OP2LEN	F	00000010	4	235	139	141												
OP2WHERE	A	00000014	4	238	138													

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
OPSWHERE	U	00000014	1	237	147												
PAGE	U	00001000	1	216													
R0	U	00000000	1	1213	42												
R1	U	00000001	1	1214	147	159											
R10	U	0000000A	1	1223	131	136	138	142	166	169							
R11	U	0000000B	1	1224	132	133	139	153	154	160	173						
R12	U	0000000C	1	1225	166	177											
R13	U	0000000D	1	1226													
R14	U	0000000E	1	1227	90	185	186										
R15	U	0000000F	1	1228	193												
R2	U	00000002	1	1215	157	169											
R3	U	00000003	1	1216	173												
R4	U	00000004	1	1217	147	157	159	177									
R5	U	00000005	1	1218	122	123	180	181	192								
R6	U	00000006	1	1219	126	127	134	136	140	142							
R7	U	00000007	1	1220	135	141	149	150	151								
R8	U	00000008	1	1221	76	79	80	81	83	194							
R9	U	00000009	1	1222	77	83	84										
REG2LOW	U	000000DD	1	253													
REG2PATT	U	AABBCCDD	1	252	276	288	300	312	324	336	348	360	372	384	396	413	425
					437	449	461	473	485	497	509	521	533	552	564	576	588
					600	612	624	636	648	660	672	693	705	717	729	741	753
					765	777	789	801	813	833	845	857	869	881	893	905	917
					929	941	953	974	986	998	1010	1022	1034	1046	1058	1070	1082
					1094	1115	1127	1139	1151								
SAVETRT	D	000005A8	8	190	159												
SUBTEST	X	00000401	1	112	99	156	168	172	176								
TEST01	I	00000502	4	120	90												
TESTADDR	D	00000400	8	110													
TESTNUM	X	00000400	1	111	96	120	127										
TNUM	X	00000000	1	227	126												
TRTE1TST	J	00000000	933722	41	44	48	52	108	42								
TRTEBC	I	0000059E	4	188	160												
TRTECTL	A	000005F8	4	261	122												
TRTEDONE	I	0000059C	2	186	183												
TRTEFAIL	I	00000598	4	185	170	174	178	188									
TRTEMOD	I	00000554	4	157	151	161											
TRTENEXT	U	00000034	1	250	180												
TRTETEST	4	00000000	52	226	123												
TRTO1L0	X	00001938	4	1170	368	505	644	785	925	1066							
TRTO1L11	X	00002138	4	1172	380	517	656	797	937	1078							
TRTO1LF0	X	00002938	4	1174	392	529	668	809	949	1090	1135	1147					
TRTOP10	X	00001438	4	1162	272	284	296	308	320	409	421	433	445	457	548	560	572
					584	689	701	713	725	829	841	853	865	970	982	994	1006
TRTOP111	X	00001538	4	1164	332	356	469	493	596	620	737	761	877	901	1018	1042	
TRTOP1F0	X	00001638	4	1166	344	481	608	749	889	1030							
TRTOP1F1	X	00001738	4	1168	632	773	913	1054	1111	1123							
TRTOP20	X	00003138	1	1180	273	285	297	309	321	369	410	422	434	446	458	506	549
					561	573	585	645	690	702	714	726	786	830	842	854	866
					926	971	983	995	1007	1067							
TRTOP211	X	00023238	1	1183	333	357	381	738	762	798							
TRTOP2F0	X	00023338	1	1185	345	393	750	810									
TRTOP411	X	00023438	1	1187	470	494	518	1019	1043	1079							
TRTOP4F0	X	00023638	1	1189	482	530	1031	1091									
TRTOP811	X	00023838	1	1191	597	621	657										
TRTOP8F0	X	00043938	1	1194	609	669											

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES			
TRTOP8F1	X	00063A38	1	1197	633	774		
TRTOPC11	X	00083B38	1	1200	878	902	938	
TRTOPCF0	X	000A3B5C	1	1203	890	950	1136	1148
TRTOPCF1	X	000C3D5A	1	1206	914	1055	1112	1124
TST1LOOP	U	0000050A	1	125	182			
=F'0'	F	000005F4	4	213	181			

MACRO DEFN REFERENCES

No defined macros

DESC	SYMBOL	SIZE	POS	ADDR

Entry: 0

Image	IMAGE	933722	00000-E3F59	00000-E3F59
Region		933722	00000-E3F59	00000-E3F59
CSECT	TRTE1TST	933722	00000-E3F59	00000-E3F59

   STMT   FILE NAME

1   c:\Users\Fish\Documents\Visual Studio 2008\Projects\MyProjects\ASMA-0\TRTE-01-basic\TRTE-01-basic.asm

** NO ERRORS FOUND **