```
  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 any of the instructions.
                                            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    "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
```

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  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
```

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  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
```

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   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
```

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  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

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  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
```

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   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
```

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  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 **