```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                     2 ************************************************************************
                                                     3 *
                                                     4 *        Zvector E6 instruction tests for VRR-g encoded:
                                                     5 *
                                                     6 *        E65F VTP     - VECTOR TEST DECIMAL
                                                     7 *
                                                     8 *        James Wekel June 2024
                                                     9 *                   April 2025 - packed-decimal-enhancements facility 3
                                                    10 ************************************************************************
                                                    11
                                                    12 ************************************************************************
                                                    13 *
                                                    14 *        basic instruction tests
                                                    15 *
                                                    16 ************************************************************************
                                                    17 *  This program tests proper functioning of the z/arch E6 VRR-g vector
                                                    18 *  test decimal. Exceptions are not tested.
                                                    19 *
                                                    20 *  PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch
                                                    21 *  obvious coding errors.  None of the tests are thorough.  They are
                                                    22 *  NOT designed to test all aspects of any of the instructions.
                                                    23 *
                                                    24 ************************************************************************
                                                    25 *
                                                    26 *   *Testcase zvector-e6-14-testdecimal
                                                    27 *   *
                                                    28 *   *   Zvector E6 tests for VRR-g encoded instruction:
                                                    29 *   *
                                                    30 *   *   E65F VTP     - VECTOR TEST DECIMAL
                                                    31 *   *
                                                    32 *   *   # -------------------------------------------------------
                                                    33 *   *   #  This tests only the basic function of the instruction.
                                                    34 *   *   #  Exceptions are NOT tested.
                                                    35 *   *   #
                                                    36 *   *   # Note: errors may indicate VTPX as the instruction in
                                                    37 *   *   #       error. This is the VTPX macro used to generate
                                                    38 *   *   #       VTP instructions with a non-zero I3
                                                    39 *   *   # -------------------------------------------------------
                                                    40 *   *
                                                    41 *   mainsize    2
                                                    42 *   numcpu      1
                                                    43 *   sysclear
                                                    44 *   archlvl     z/Arch
                                                    45 *
                                                    46 *   loadcore    "$(testpath)/zvector-e6-14-testdecimal.core" 0x0
                                                    47 *
                                                    48 *   diag8cmd    enable    # (needed for messages to Hercules console)
                                                    49 *   runtest     2
                                                    50 *   diag8cmd    disable   # (reset back to default)
                                                    51 *
                                                    52 *   *Done
                                                    53 *
                                                    54 ************************************************************************
```

```
 LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   56 ************************************************************************
                                                   57 *        FCHECK Macro - Is a Facility Bit set?
                                                   58 *
                                                   59 *        If the facility bit is NOT set, an message is issued and
                                                   60 *        the test is skipped.
                                                   61 *
                                                   62 *        Fcheck uses R0, R1 and R2
                                                   63 *
                                                   64 * eg.    FCHECK 134,'vector-packed-decimal'
                                                   65 ************************************************************************
                                                   66         MACRO
                                                   67         FCHECK &BITNO,&NOTSETMSG
                                                   68 .*                      &BITNO : facility bit number to check
                                                   69 .*                      &NOTSETMSG : 'facility name'
                                                   70         LCLA  &FBBYTE           Facility bit in Byte
                                                   71         LCLA  &FBBIT            Facility bit within Byte
                                                   72
                                                   73         LCLA  &L(8)
                                                   74 &L(1)   SetA  128,64,32,16,8,4,2,1  bit positions within byte
                                                   75
                                                   76 &FBBYTE SETA  &BITNO/8
                                                   77 &FBBIT  SETA  &L((&BITNO-(&FBBYTE*8))+1)
                                                   78 .*      MNOTE 0,'checking Bit=&BITNO: FBBYTE=&FBBYTE, FBBIT=&FBBIT'
                                                   79
                                                   80         B     X&SYSNDX
                                                   81 *                                       Fcheck data area
                                                   82 *                                       skip message
                                                   83 SKT&SYSNDX DC  C'          Skipping tests: '
                                                   84         DC    C&NOTSETMSG
                                                   85         DC    C' facility (bit &BITNO) is not installed.'
                                                   86 SKL&SYSNDX EQU *-SKT&SYSNDX
                                                   87 *                                       facility bits
                                                   88         DS    FD                       gap
                                                   89 FB&SYSNDX DS  4FD
                                                   90         DS    FD                       gap
                                                   91 *
                                                   92 X&SYSNDX EQU *
                                                   93         LA    R0,((X&SYSNDX-FB&SYSNDX)/8)-1
                                                   94         STFLE FB&SYSNDX                get facility bits
                                                   95
                                                   96         XGR   R0,R0
                                                   97         IC    R0,FB&SYSNDX+&FBBYTE     get fbit byte
                                                   98         N     R0,=F'&FBBIT'            is bit set?
                                                   99         BNZ   XC&SYSNDX
                                                  100 *
                                                  101 * facility bit not set, issue message and exit
                                                  102 *
                                                  103         LA    R0,SKL&SYSNDX            message length
                                                  104         LA    R1,SKT&SYSNDX            message address
                                                  105         BAL   R2,MSG
                                                  106
                                                  107         B     EOJ
                                                  108 XC&SYSNDX EQU *
                                                  109         MEND
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    111 ************************************************************************
                                                    112 *        Low core PSWs
                                                    113 ************************************************************************


                             00000000  000080AF    115 ZVE6TST  START 0
00000000                     00000000              116          USING ZVE6TST,R0            Low core addressability
                                                    117
                             00000140  00000000    118 SVOLDPSW EQU   ZVE6TST+X'140'        z/Arch Supervisor call old PSW


00000000                     00000000  000001A0    120          ORG   ZVE6TST+X'1A0'        z/Architecture RESTART PSW
000001A0  00000001 80000000                         121          DC    X'0000000180000000'
000001A8  00000000 00000200                         122          DC    AD(BEGIN)


000001B0                     000001B0  000001D0    124          ORG   ZVE6TST+X'1D0'        z/Architecture PROGRAM CHECK PSW
000001D0  00020001 80000000                         125          DC    X'0002000180000000'
000001D8  00000000 0000DEAD                         126          DC    AD(X'DEAD')


000001E0                     000001E0  00000200    128          ORG   ZVE6TST+X'200'        Start of actual test program...
                                                    129
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    131 ************************************************************************
                                                    132 *                The actual "ZVE6TST" program itself...
                                                    133 ************************************************************************
                                                    134 *
                                                    135 *  Architecture Mode: z/Arch
                                                    136 *  Register Usage:
                                                    137 *
                                                    138 *   R0       (work)
                                                    139 *   R1-4     (work)
                                                    140 *   R5       Testing control table - current test base
                                                    141 *   R6-R7    (work)
                                                    142 *   R8       First base register
                                                    143 *   R9       Second base register
                                                    144 *   R10      Third base register
                                                    145 *   R11      E6TEST call return
                                                    146 *   R12      E6TESTS register
                                                    147 *   R13      (work)
                                                    148 *   R14      Subroutine call
                                                    149 *   R15      Secondary Subroutine call or work
                                                    150 *
                                                    151 ************************************************************************

00000200                      00000200              153          USING  BEGIN,R8        FIRST Base Register
00000200                      00001200              154          USING  BEGIN+4096,R9   SECOND Base Register
00000200                      00002200              155          USING  BEGIN+8192,R10  THIRD Base Register
                                                    156
00000200  0580                                      157 BEGIN    BALR   R8,0            Initialize FIRST base register
00000202  0680                                      158          BCTR   R8,0            Initialize FIRST base register
00000204  0680                                      159          BCTR   R8,0            Initialize FIRST base register
                                                    160
00000206  4190 8800                   00000800      161          LA     R9,2048(,R8)    Initialize SECOND base register
0000020A  4190 9800                   00000800      162          LA     R9,2048(,R9)    Initialize SECOND base register
                                                    163
0000020E  41A0 9800                   00000800      164          LA     R10,2048(,R9)   Initialize THIRD base register
00000212  41A0 A800                   00000800      165          LA     R10,2048(,R10)  Initialize THIRD base register
                                                    166
00000216  B600 8384                   00000584      167          STCTL  R0,R0,CTLR0     Store CR0 to enable AFP
0000021A  9604 8385                   00000585      168          OI     CTLR0+1,X'04'   Turn on AFP bit
0000021E  9602 8385                   00000585      169          OI     CTLR0+1,X'02'   Turn on Vector bit
00000222  B700 8384                   00000584      170          LCTL   R0,R0,CTLR0     Reload updated CR0
                                                    171
                                                    172 ************************************************************************
                                                    173 * Is Vector packed-decimal facility installed  (bit 134)
                                                    174 ************************************************************************
                                                    175
                                                    176          FCHECK 134,'vector-packed-decimal'
00000226  47F0 80B0                   000002B0      177+         B      X0001
                                                    178+*                                   Fcheck data area
                                                    179+*                                   skip message
0000022A  40404040 40404040                         180+SKT0001  DC     C'          Skipping tests: '
00000244  A58583A3 96996097                         181+         DC     C'vector-packed-decimal'
00000259  40868183 899389A3                         182+         DC     C' facility (bit 134) is not installed.'
                              00000054  00000001    183+SKL0001  EQU    *-SKT0001
                                                    184+*                                   facility bits
00000280  00000000 00000000                         185+         DS     FD                 gap
00000288  00000000 00000000                         186+FB0001   DS     4FD
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000002A8  00000000 00000000                         187+         DS    FD                      gap
                                                    188+*
                              000002B0  00000001    189+X0001    EQU   *
000002B0  4100 0004                     00000004    190+         LA    R0,((X0001-FB0001)/8)-1
000002B4  B2B0 8088                     00000288    191+         STFLE FB0001                  get facility bits
000002B8  B982 0000                                 192+         XGR   R0,R0
000002BC  4300 8098                     00000298    193+         IC    R0,FB0001+16            get fbit byte
000002C0  5400 838C                     0000058C    194+         N     R0,=F'2'                is bit set?
000002C4  4770 80D8                     000002D8    195+         BNZ   XC0001
                                                    196+*
                                                    197+* facility bit not set, issue message and exit
                                                    198+*
000002C8  4100 0054                     00000054    199+         LA    R0,SKL0001              message length
000002CC  4110 802A                     0000022A    200+         LA    R1,SKT0001              message address
000002D0  4520 82A0                     000004A0    201+         BAL   R2,MSG
000002D4  47F0 8368                     00000568    202+         B     EOJ
                              000002D8  00000001    203+XC0001   EQU   *
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    205 ************************************************************************
                                                    206 * Is Vector packed-decimal enhancement 3 facility installed  (bit 199)
                                                    207 ************************************************************************
                                                    208
                                                    209          FCHECK 199,'vector packed-decimal-enhancement 3'
000002D8  47F0 8170                     00000370    210+         B     X0002
                                                    211+*                                     Fcheck data area
                                                    212+*                                     skip message
000002DC  40404040 40404040                         213+SKT0002  DC    C'          Skipping tests: '
000002F6  A58583A3 96994097                         214+         DC    C'vector packed-decimal-enhancement 3'
00000319  40868183 899389A3                         215+         DC    C' facility (bit 199) is not installed.'
                            00000062  00000001      216+SKL0002  EQU   *-SKT0002
                                                    217+*                                     facility bits
00000340  00000000 00000000                         218+         DS    FD                     gap
00000348  00000000 00000000                         219+FB0002   DS    4FD
00000368  00000000 00000000                         220+         DS    FD                     gap
                                                    221+*
                            00000370  00000001      222+X0002    EQU   *
00000370  4100 0004                     00000004    223+         LA    R0,((X0002-FB0002)/8)-1
00000374  B2B0 8148                     00000348    224+         STFLE FB0002                 get facility bits
00000378  B982 0000                                 225+         XGR   R0,R0
0000037C  4300 8160                     00000360    226+         IC    R0,FB0002+24           get fbit byte
00000380  5400 8390                     00000590    227+         N     R0,=F'1'               is bit set?
00000384  4770 8198                     00000398    228+         BNZ   XC0002
                                                    229+*
                                                    230+* facility bit not set, issue message and exit
                                                    231+*
00000388  4100 0062                     00000062    232+         LA    R0,SKL0002             message length
0000038C  4110 80DC                     000002DC    233+         LA    R1,SKT0002             message address
00000390  4520 82A0                     000004A0    234+         BAL   R2,MSG
00000394  47F0 8368                     00000568    235+         B     EOJ
                            00000398  00000001      236+XC0002   EQU   *
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    238 ***********************************************************************
                                                    239 *               Do tests in the E6TESTS table
                                                    240 ***********************************************************************
                                                    241
00000398  58C0 8394                         00000594 242          L     R12,=A(E6TESTS)       get table of test addresses
                                                    243
                                 0000039C   00000001 244 NEXTE6   EQU   *
0000039C  5850 C000                         00000000 245          L     R5,0(0,R12)       get test address
000003A0  1255                                      246          LTR   R5,R5                  have a test?
000003A2  4780 8256                         00000456 247          BZ    ENDTEST                   done?
                                                    248
000003A6  B982 0000                                 249          XGR   R0,R0             no cc error
                                                    250
000003AA                         00000000           251          USING E6TEST,R5
                                                    252
000003AA  58B0 5000                         00000000 253          L     R11,TSUB          get address of test routine
000003AE  05BB                                      254          BALR  R11,R11           do test
                                                    255
000003B0  E310 5008 0076                    00000008 256          LB    R1,CCMASK         (failure CC mask)
000003B6  8910 0004                         00000004 257          SLL   R1,4              (shift to BC instr CC position)
000003BA  4410 81C6                         000003C6 258          EX    R1,TESTCC            fail if...
                                                    259
000003BE  41C0 C004                         00000004 260          LA    R12,4(0,R12)      next test address
000003C2  47F0 819C                         0000039C 261          B     NEXTE6
                                                    262
000003C6  4700 81CA                         000003CA 263 TESTCC   BC    0,CCMSG          (fail if unexpected condition code)
                                                    264
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    266 ************************************************************************
                                                    267 * cc was not as expected
                                                    268 ************************************************************************
                             000003CA  00000001     269 CCMSG    EQU   *
                                                    270 *
                                                    271 * extract CC extracted PSW
                                                    272 *
000003CA  5810 8E9C                    0000109C     273          L     R1,CCPSW
000003CE  8810 000C                    0000000C     274          SRL   R1,12
000003D2  5410 8398                    00000598     275          N     R1,=XL4'3'
000003D6  4210 8EA4                    000010A4     276          STC   R1,CCFOUND     save cc
                                                    277 *
                                                    278 * FILL IN MESSAGE
                                                    279 *
000003DA  4820 5004                    00000004     280          LH    R2,TNUM                 get test number and convert
000003DE  4E20 8E89                    00001089     281          CVD   R2,DECNUM
000003E2  D211 8E73 8E5D      00001073 0000105D     282          MVC   PRT3,EDIT
000003E8  DE11 8E73 8E89      00001073 00001089     283          ED    PRT3,DECNUM
000003EE  D202 8E18 8E80      00001018 00001080     284          MVC   CCPRTNUM(3),PRT3+13     fill in message with test #
                                                    285
000003F4  D207 8E35 5009      00001035 00000009     286          MVC   CCPRTNAME,OPNAME        fill in message with instruction
                                                    287
000003FA  B982 0022                                 288          XGR   R2,R2                   get CC as U8
000003FE  4320 5007                    00000007     289          IC    R2,CC
00000402  4E20 8E89                    00001089     290          CVD   R2,DECNUM               and convert
00000406  D211 8E73 8E5D      00001073 0000105D     291          MVC   PRT3,EDIT
0000040C  DE11 8E73 8E89      00001073 00001089     292          ED    PRT3,DECNUM
00000412  D200 8E4B 8E82      0000104B 00001082     293          MVC   CCPRTEXP(1),PRT3+15     fill in message with CC field
                                                    294
00000418  B982 0022                                 295          XGR   R2,R2                   get CCFOUND as U8
0000041C  4320 8EA4                    000010A4     296          IC    R2,CCFOUND
00000420  4E20 8E89                    00001089     297          CVD   R2,DECNUM               and convert
00000424  D211 8E73 8E5D      00001073 0000105D     298          MVC   PRT3,EDIT
0000042A  DE11 8E73 8E89      00001073 00001089     299          ED    PRT3,DECNUM
00000430  D200 8E5B 8E82      0000105B 00001082     300          MVC   CCPRTGOT(1),PRT3+15    fill in message with ccfound
                                                    301
00000436  4100 0055                    00000055     302          LA    R0,CCPRTLNG            message length
0000043A  4110 8E08                    00001008     303          LA    R1,CCPRTLINE           messagfe address
0000043E  45F0 8264                    00000464     304          BAL   R15,RPTERROR
                                                    305
00000442  47F0 8246                    00000446     306          B     FAILCONT
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    308 ************************************************************************
                                                    309 * continue after a failed test
                                                    310 ************************************************************************
                              00000446  00000001    311 FAILCONT EQU   *
00000446  5800 8390                     00000590    312          L     R0,=F'1'          set GLOBAL failed test indicator
0000044A  5000 8E00                     00001000    313          ST    R0,FAILED
                                                    314
0000044E  41C0 C004                     00000004    315          LA    R12,4(0,R12)      next test address
00000452  47F0 819C                     0000039C    316          B     NEXTE6


                                                    318 ************************************************************************
                                                    319 * end of testing; set ending psw
                                                    320 ************************************************************************
                              00000456  00000001    321 ENDTEST  EQU   *
00000456  5810 8E00                     00001000    322          L     R1,FAILED         did a test fail?
0000045A  1211                                      323          LTR   R1,R1
0000045C  4780 8368                     00000568    324          BZ    EOJ                  No, exit
00000460  47F0 8380                     00000580    325          B     FAILTEST             Yes, exit with BAD PSW
                                                    326
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    328 ************************************************************************
                                                    329 *        RPTERROR          Report instruction test in error
                                                    330 *                             R0 = MESSGAE LENGTH
                                                    331 *                             R1 = ADDRESS OF MESSAGE
                                                    332 ************************************************************************

00000464  50F0 8284                 00000484       334 RPTERROR ST    R15,RPTSAVE          Save return address
00000468  5050 8288                 00000488       335          ST    R5,RPTSVR5           Save R5
                                                    336 *
                                                    337 *        Use Hercules Diagnose for Message to console
                                                    338 *
0000046C  9002 8290                 00000490       339          STM   R0,R2,RPTDWSAV       save regs used by MSG
00000470  4520 82A0                 000004A0       340          BAL   R2,MSG               call Hercules console MSG display
00000474  9802 8290                 00000490       341          LM    R0,R2,RPTDWSAV       restore regs


00000478  5850 8288                 00000488       343          L     R5,RPTSVR5           Restore R5
0000047C  58F0 8284                 00000484       344          L     R15,RPTSAVE          Restore return address
00000480  07FF                                     345          BR    R15                  Return to caller

00000484  00000000                                 347 RPTSAVE  DC    F'0'                 R15 save area
00000488  00000000                                 348 RPTSVR5  DC    F'0'                 R5 save area

00000490  00000000 00000000                        350 RPTDWSAV DC    2D'0'                R0-R2 save area for MSG call
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    352 ***********************************************************************
                                                    353 *        Issue HERCULES MESSAGE pointed to by R1, length in R0
                                                    354 *              R2 = return address
                                                    355 ***********************************************************************
                                                    356
000004A0  4900 839C                   0000059C      357 MSG      CH    R0,=H'0'                Do we even HAVE a message?
000004A4  07D2                                      358          BNHR  R2                      No, ignore
                                                    359
000004A6  9002 82DC                   000004DC      360          STM   R0,R2,MSGSAVE           Save registers
                                                    361
000004AA  4900 839E                   0000059E      362          CH    R0,=AL2(L'MSGMSG)       Message length within limits?
000004AE  47D0 82B6                   000004B6      363          BNH   MSGOK                   Yes, continue
000004B2  4100 005F                   0000005F      364          LA    R0,L'MSGMSG             No, set to maximum
                                                    365
000004B6  1820                                      366 MSGOK    LR    R2,R0                   Copy length to work register
000004B8  0620                                      367          BCTR  R2,0                    Minus-1 for execute
000004BA  4420 82E8                   000004E8      368          EX    R2,MSGMVC               Copy message to O/P buffer
                                                    369
000004BE  4120 200A                   0000000A      370          LA    R2,1+L'MSGCMD(,R2)      Calculate true command length
000004C2  4110 82EE                   000004EE      371          LA    R1,MSGCMD               Point to true command
                                                    372
000004C6  83120008                                  373          DC    X'83',X'12',X'0008'     Issue Hercules Diagnose X'008'
000004CA  4780 82D6                   000004D6      374          BZ    MSGRET                  Return if successful
                                                    375
000004CE  1222                                      376          LTR   R2,R2                   Is Diag8 Ry (R2) 0?
000004D0  4780 82D6                   000004D6      377          BZ    MSGRET                    an error occurred but coninue
                                                    378
000004D4  0000                                      379          DC    H'0'                    CRASH for debugging purposes
                                                    380
000004D6  9802 82DC                   000004DC      381 MSGRET   LM    R0,R2,MSGSAVE           Restore registers
000004DA  07F2                                      382          BR    R2                      Return to caller


000004DC  00000000 00000000                         384 MSGSAVE  DC    3F'0'                   Registers save area
000004E8  D200 82F7 1000      000004F7  00000000    385 MSGMVC   MVC   MSGMSG(0),0(R1)          Executed instruction

000004EE  D4E2C7D5 D6C8405C                         387 MSGCMD   DC    C'MSGNOH * '            *** HERCULES MESSAGE COMMAND ***
000004F7  40404040 40404040                         388 MSGMSG   DC    CL95' '                 The message text to be displayed
                                                    389
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    391 ************************************************************************
                                                    392 *        Normal completion or Abnormal termination PSWs
                                                    393 ************************************************************************


00000558  00020001 80000000                         395 EOJPSW   DC    0D'0',X'0002000180000000',AD(0)

00000568  B2B2 8358                       00000558  397 EOJ      LPSWE EOJPSW               Normal completion


00000570  00020001 80000000                         399 FAILPSW  DC    0D'0',X'0002000180000000',AD(X'BAD')

00000580  B2B2 8370                       00000570  401 FAILTEST LPSWE FAILPSW              Abnormal termination


                                                    403 ************************************************************************
                                                    404 *        Working Storage
                                                    405 ************************************************************************

00000584  00000000                                  407 CTLR0    DS    F                    CR0
00000588  00000000                                  408          DS    F

0000058C                                            410          LTORG ,                    Literals pool
0000058C  00000002                                  411                =F'2'
00000590  00000001                                  412                =F'1'
00000594  00007AC4                                  413                =A(E6TESTS)
00000598  00000003                                  414                =XL4'3'
0000059C  0000                                      415                =H'0'
0000059E  005F                                      416                =AL2(L'MSGMSG)
                                                    417
                                                    418 *        some constants
                                                    419
                                  00000400  00000001 420 K        EQU   1024               One KB
                                  00001000  00000001 421 PAGE     EQU   (4*K)              Size of one page
                                  00010000  00000001 422 K64      EQU   (64*K)             64 KB
                                  00100000  00000001 423 MB       EQU   (K*K)               1 MB
                                                    424
                                                    425
                                  AABBCCDD  00000001 426 REG2PATT EQU   X'AABBCCDD'    Polluted Register pattern
                                  000000DD  00000001 427 REG2LOW  EQU         X'DD'    (last byte above)
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    429 *=====================================================================
                                                    430 *
                                                    431 *  NOTE: start data on an address that is easy to display
                                                    432 *        within Hercules
                                                    433 *
                                                    434 *=====================================================================
                                                    435
000005A0                      000005A0  00001000    436          ORG   ZVE6TST+X'1000'
00001000  00000000                                  437 FAILED   DC    F'0'                      some test failed?
00001004  00000000                                  438 TESTING  DC    F'0'                      current test number


                                                    440 ***********************************************************************
                                                    441 *        TEST failed : CC message
                                                    442 ***********************************************************************
                                                    443 *
                                                    444 *        failed message and associated editting
                                                    445 *
00001008  40404040 40404040                         446 CCPRTLINE DC   C'         Test # '
00001018  A7A7A7                                    447 CCPRTNUM DC    C'xxx'
0000101B  40A69996 95874083                         448          DC    c' wrong cc for instruction '
00001035  A7A7A7A7 A7A7A7A7                         449 CCPRTNAME DC    CL8'xxxxxxxx'
0000103D  4085A797 8583A385                         450          DC    C' expected: cc='
0000104B  A7                                        451 CCPRTEXP DC    C'x'
0000104C  6B                                        452          DC    C','
0000104D  40998583 8589A585                         453          DC    C' received: cc='
0000105B  A7                                        454 CCPRTGOT DC    C'x'
0000105C  4B                                        455          DC    C'.'
                                00000055  00000001  456 CCPRTLNG   EQU   *-CCPRTLINE
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    458 ***********************************************************************
                                                    459 *        TEST failed : message working storge
                                                    460 ***********************************************************************
0000105D  40212020 20202020                         461 EDIT     DC    XL18'402120202020202020202020202020202020'
                                                    462
0000106F  7E7E7E6E                                  463          DC    C'===>'
00001073  40404040 40404040                         464 PRT3     DC    CL18' '
00001085  4C7E7E7E                                  465          DC    C'<===='
00001089  00000000 00000000                         466 DECNUM   DS    CL16
                                                    467 *
                                                    468 *        CC extrtaction
                                                    469 *
0000109C  00000000 00000000                         470 CCPSW    DS    2F          extract PSW after test (has CC)
000010A4  00                                        471 CCFOUND  DS    X           extracted cc


                                                    473 ***********************************************************************
                                                    474 *        Vector instruction results, pollution and input
                                                    475 ***********************************************************************
000010A8                                            476          DS    0FD
000010A8  AABBCCDD EEFFAABB                         477 R1FUDGE  DC    XL8'AABBCCDDEEFFAABB'                    R1 FUDGE
000010B0  00000000 00000000                         478          DS    XL16                                         gap
000010C0  00000000 00000000                         479 V1OUTPUT DS    XL16                                     V1 OUTPUT
000010D0  00000000 00000000                         480          DS    XL16                                         gap
000010E0  00000000 00000000                         481 R1OUTPUT DS    FD                                       R1 OUTPUT
000010E8  00000000 00000000                         482          DS    XL16                                         gap
000010F8  FFFFFFFF FFFFFFFF                         483 V1FUDGE  DC    XL16'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF'    V1 FUDGE
00001108  BBBBBBBB BBBBBBBB                         484 V1FUDGEB DC    XL16'BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB'    V1 FUDGE b
00001118  F1F2F3F4 F5F6F7F8                         485 V1INPUT  DC    CL16'1234567890123456'                   V1 input
00001128  F7F8F9F0 F1F2F3F4                         486          DC    CL14'78901234567890'
00001136  D9                                        487          DC    X'D9'
00001137  00000000 00000000                         488          DS    XL16                                         gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    490 ************************************************************************
                                                    491 *        E6TEST DSECT
                                                    492 ************************************************************************


                                                    494 E6TEST   DSECT ,
00000000  00000000                                  495 TSUB     DC    A(0)           pointer  to test
00000004  0000                                      496 TNUM     DC    H'00'          Test Number
00000006  00                                        497          DC    XL1'00'
00000007  00                                        498 CC       DC    HL1'00'        cc
00000008  00                                        499 CCMASK   DC    HL1'00'        not expected CC mask
                                                    500
00000009  40404040 40404040                         501 OPNAME   DC    CL8' '         E6 name
                                                    502
00000014  00000000                                  503 RELEN    DC    A(0)           RESULT LENGTH
00000018  00000000                                  504 READDR   DC    A(0)           expected result address
                                                    505
                                                    506 **
                                                    507 *        test routine will be here (from VRR_G macro)
                                                    508 * followed by
                                                    509 *        16-byte EXPECTED RESULT
                                                    510 *        8-byte  byte source
```

```
 LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                  512 ************************************************************************
                                                  513 * (pending VTP update in SATK ASAM for
                                                  514 *        vector packed-decimal enhancement 3 facility)
                                                  515 *
                                                  516 *     VTPX Macro to help build VTP instruction
                                                  517 *        VTP   V1,i3
                                                  518 *
                                                  519 *        Note: v1 is a fixed vector register
                                                  520 *              i3 can be specified in hex eg. x'1F1F'
                                                  521 ************************************************************************
                                                  522          MACRO
                                                  523          VTPX  &I3
                                                  524 .*                                    &I3  - i3 for VTP instruction
                                                  525          LCLA  &RSI3
                                                  526 &RSI3    SETA  +X'000000'+(16*&I3)
                                                  527                                                          SPACE 1
                                                  528          DS    0H                     E65F VTP - Vector Test Decimal
                                                  529          DC    X'E6'
                                                  530          DC    X'01'                  v1
                                                  531          DC    HL3'&RSI3'             0, I3, RXB
                                                  532          DC    X'5F'
                                                  533                                                          SPACE 1
                                                  534          MEND
                                                  535
                                                  536 ************************************************************************
                                                  537 *     Macros to help build test tables
                                                  538 *------------------------------------------------------------------------
                                                  539 *     VRR_G Macro to help build test tables
                                                  540 ************************************************************************
                                                  541          MACRO
                                                  542          VRR_G &INST,&I3,&CC
                                                  543 .*                                &INST  - instruction under test
                                                  544 .*                                &I3    - i3 for VTP instruction
                                                  545 .*                                &CC    - expected CC
                                                  546 .*
                                                  547          LCLA  &XCC(4)  &CC has mask values for FAILED condition codes
                                                  548 &XCC(1)  SETA  7                  CC != 0
                                                  549 &XCC(2)  SETA  11                 CC != 1
                                                  550 &XCC(3)  SETA  13                 CC != 2
                                                  551 &XCC(4)  SETA  14                 CC != 3
                                                  552
                                                  553          GBLA  &TNUM
                                                  554 &TNUM    SETA  &TNUM+1
                                                  555
                                                  556          DS    0FD
                                                  557          USING *,R5              base for test data and test routine
                                                  558
                                                  559 T&TNUM   DC    A(X&TNUM)         address of test routine
                                                  560          DC    H'&TNUM'          test number
                                                  561          DC    XL1'00'
                                                  562          DC    HL1'&CC'          cc
                                                  563          DC    HL1'&XCC(&CC+1)'  cc failed mask
                                                  564
                                                  565          DC    CL8'&INST'        instruction name
                                                  566
                                                  567          DC    A(16)             result length
```

```
  LOC         OBJECT CODE       ADDR1     ADDR2     STMT

                                                     REA&TNUM DC    A(RE&TNUM)        result address
                                                     .*
                                                     *                                INSTRUCTION UNDER TEST ROUTINE
                                                     X&TNUM   DS    0F
                                                              VL    V1,RE&TNUM        get V1 source

                                                     .* Select based on &INST to build appropriate instruction sequence
                                                              AIF   ('&INST' EQ 'VTP').DOVTP
                                                              AIF   ('&INST' EQ 'VTPX').DOVTPX
                                                              MNOTE 1,'Instruction &INST not recognized; skipping test'
                                                              MEXIT

                                                     .DOVTP   ANOP
                                                              &INST V1                     test instruction
                                                              AGO   .CONT

                                                     .DOVTPX  ANOP
                                                     .*       VTP   V1,&i3
                                                              &INST &I3                    test instruction

                                                     .CONT    ANOP
                                                              EPSW  R2,R0             exptract psw
                                                              ST    R2,CCPSW              to save CC

                                                              BR    R11               return

                                                     RE&TNUM  DC    0F
                                                              DROP  R5

                                                              MEND
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    599 ************************************************************************
                                                    600 *     PTTABLE Macro to generate table of pointers to individual tests
                                                    601 ************************************************************************
                                                    602
                                                    603          MACRO
                                                    604          PTTABLE
                                                    605          GBLA  &TNUM
                                                    606          LCLA  &CUR
                                                    607 &CUR     SETA  1
                                                    608 .*
                                                    609 TTABLE   DS    0F
                                                    610 .LOOP    ANOP
                                                    611 .*
                                                    612          DC    A(T&CUR)          address of test
                                                    613 .*
                                                    614 &CUR     SETA  &CUR+1
                                                    615          AIF   (&CUR LE &TNUM).LOOP
                                                    616 *
                                                    617          DC    A(0)              END OF TABLE
                                                    618          DC    A(0)
                                                    619 .*
                                                    620          MEND
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT
                                                    622 ************************************************************************
                                                    623 *        E6 VRR_G tests
                                                    624 ************************************************************************
                             00000000  000080AF     625 ZVE6TST  CSECT ,
00001148                                            626          DS    0F


                                                    628          PRINT DATA
                                                    629 *
                                                    630 *        E65F VTP     - VECTOR TEST DECIMAL
                                                    631 *             VTPX    - VECTOR TEST DECIMAL
                                                    632 *                          packed-decimal-enhancements facility 3
                                                    633 *        VRR_G instr, i3, cc
                                                    634 *              followed by
                                                    635 *              v1     - 16 byte source
                                                    636 *-----------------------------------------------------------------
                                                    637 * VTP     - VECTOR TEST DECIMAL
                                                    638 *-----------------------------------------------------------------
                                                    639 * VTP simple
                                                    640
                                                    641 * digits valid,  sign valid
                                                    642          VRR_G VTP,0,0
00001148                                            643+         DS    0FD
00001148                             00001148       644+         USING *,R5              base for test data and test routine
00001148  00001164                                  645+T1       DC    A(X1)             address of test routine
0000114C  0001                                      646+         DC    H'1'              test number
0000114E  00                                        647+         DC    XL1'00'
0000114F  00                                        648+         DC    HL1'0'            cc
00001150  07                                        649+         DC    HL1'7'            cc failed mask
00001151  E5E3D740 40404040                         650+         DC    CL8'VTP'          instruction name
0000115C  00000010                                  651+         DC    A(16)             result length
00001160  0000117C                                  652+REA1     DC    A(RE1)            result address
                                                    653+*                                  INSTRUCTION UNDER TEST ROUTINE
00001164                                            654+X1       DS    0F
00001164  E710 5034 0006                 0000117C   655+         VL    V1,RE1            get V1 source
0000116A  E601 0000 005F                            656+         VTP   V1                      test instruction
00001170  B98D 0020                                 657+         EPSW  R2,R0             exptract psw
00001174  5020 8E9C                      0000109C   658+         ST    R2,CCPSW              to save CC
00001178  07FB                                      659+         BR    R11               return
0000117C                                            660+RE1      DC    0F
0000117C                                            661+         DROP  R5
0000117C  00000000 00000000                         662          DC    XL16'0000000000000000000000000000000C'   V1 source
00001184  00000000 0000000C
                                                    663
                                                    664          VRR_G VTP,0,0
00001190                                            665+         DS    0FD
00001190                             00001190       666+         USING *,R5              base for test data and test routine
00001190  000011AC                                  667+T2       DC    A(X2)             address of test routine
00001194  0002                                      668+         DC    H'2'              test number
00001196  00                                        669+         DC    XL1'00'
00001197  00                                        670+         DC    HL1'0'            cc
00001198  07                                        671+         DC    HL1'7'            cc failed mask
00001199  E5E3D740 40404040                         672+         DC    CL8'VTP'          instruction name
000011A4  00000010                                  673+         DC    A(16)             result length
000011A8  000011C4                                  674+REA2     DC    A(RE2)            result address
                                                    675+*                                  INSTRUCTION UNDER TEST ROUTINE
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000011AC                                            676+X2       DS    0F
000011AC  E710 5034 0006                000011C4    677+         VL    V1,RE2            get V1 source
000011B2  E601 0000 005F                            678+         VTP   V1                      test instruction
000011B8  B98D 0020                                 679+         EPSW  R2,R0             exptract psw
000011BC  5020 8E9C                     0000109C    680+         ST    R2,CCPSW              to save CC
000011C0  07FB                                      681+         BR    R11               return
000011C4                                            682+RE2      DC    0F
000011C4                                            683+         DROP  R5
000011C4  00000000 00000000                         684          DC    XL16'00000000000000000001234500000000D'   V1 source
000011CC  00123450 0000000D
                                                    685
                                                    686 * digits valid,  sign invalid
                                                    687          VRR_G VTP,0,1
000011D8                                            688+         DS    0FD
000011D8                        000011D8            689+         USING *,R5              base for test data and test routine
000011D8  000011F4                                  690+T3       DC    A(X3)             address of test routine
000011DC  0003                                      691+         DC    H'3'              test number
000011DE  00                                        692+         DC    XL1'00'
000011DF  01                                        693+         DC    HL1'1'            cc
000011E0  0B                                        694+         DC    HL1'11'           cc failed mask
000011E1  E5E3D740 40404040                         695+         DC    CL8'VTP'          instruction name
000011EC  00000010                                  696+         DC    A(16)             result length
000011F0  0000120C                                  697+REA3     DC    A(RE3)            result address
                                                    698+*                                  INSTRUCTION UNDER TEST ROUTINE
000011F4                                            699+X3       DS    0F
000011F4  E710 900C 0006                0000120C    700+         VL    V1,RE3            get V1 source
000011FA  E601 0000 005F                            701+         VTP   V1                      test instruction
00001200  B98D 0020                                 702+         EPSW  R2,R0             exptract psw
00001204  5020 8E9C                     0000109C    703+         ST    R2,CCPSW              to save CC
00001208  07FB                                      704+         BR    R11               return
0000120C                                            705+RE3      DC    0F
0000120C                                            706+         DROP  R5
0000120C  00000000 00000000                         707          DC    XL16'00000000000000000000000000000009'   V1 source
00001214  00000000 00000009
                                                    708
                                                    709          VRR_G VTP,0,1
00001220                                            710+         DS    0FD
00001220                        00001220            711+         USING *,R5              base for test data and test routine
00001220  0000123C                                  712+T4       DC    A(X4)             address of test routine
00001224  0004                                      713+         DC    H'4'              test number
00001226  00                                        714+         DC    XL1'00'
00001227  01                                        715+         DC    HL1'1'            cc
00001228  0B                                        716+         DC    HL1'11'           cc failed mask
00001229  E5E3D740 40404040                         717+         DC    CL8'VTP'          instruction name
00001234  00000010                                  718+         DC    A(16)             result length
00001238  00001254                                  719+REA4     DC    A(RE4)            result address
                                                    720+*                                  INSTRUCTION UNDER TEST ROUTINE
0000123C                                            721+X4       DS    0F
0000123C  E710 5034 0006                00001254    722+         VL    V1,RE4            get V1 source
00001242  E601 0000 005F                            723+         VTP   V1                      test instruction
00001248  B98D 0020                                 724+         EPSW  R2,R0             exptract psw
0000124C  5020 8E9C                     0000109C    725+         ST    R2,CCPSW              to save CC
00001250  07FB                                      726+         BR    R11               return
00001254                                            727+RE4      DC    0F
00001254                                            728+         DROP  R5
00001254  00000000 00000000                         729          DC    XL16'00000000000000000012345000000000'   V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000125C  00123450 00000000
                                                   730
                                                   731 * a digit invalid, sign valid
                                                   732          VRR_G VTP,0,2
00001268                                           733+         DS    0FD
00001268                     00001268              734+         USING *,R5              base for test data and test routine
00001268  00001284                                 735+T5       DC    A(X5)             address of test routine
0000126C  0005                                     736+         DC    H'5'              test number
0000126E  00                                       737+         DC    XL1'00'
0000126F  02                                       738+         DC    HL1'2'            cc
00001270  0D                                       739+         DC    HL1'13'           cc failed mask
00001271  E5E3D740 40404040                        740+         DC    CL8'VTP'          instruction name
0000127C  00000010                                 741+         DC    A(16)             result length
00001280  0000129C                                 742+REA5     DC    A(RE5)            result address
                                                   743+*                                  INSTRUCTION UNDER TEST ROUTINE
00001284                                           744+X5       DS    0F
00001284  E710 5034 0006               0000129C    745+         VL    V1,RE5            get V1 source
0000128A  E601 0000 005F                           746+         VTP   V1                      test instruction
00001290  B98D 0020                                747+         EPSW  R2,R0             exptract psw
00001294  5020 8E9C                    0000109C    748+         ST    R2,CCPSW              to save CC
00001298  07FB                                     749+         BR    R11               return
0000129C                                           750+RE5      DC    0F
0000129C                                           751+         DROP  R5
0000129C  00000000 0FF00000                        752          DC    XL16'000000000FF000000000000000000000C'   V1 source
000012A4  00000000 0000000C
                                                   753
                                                   754          VRR_G VTP,0,2
000012B0                                           755+         DS    0FD
000012B0                     000012B0              756+         USING *,R5              base for test data and test routine
000012B0  000012CC                                 757+T6       DC    A(X6)             address of test routine
000012B4  0006                                     758+         DC    H'6'              test number
000012B6  00                                       759+         DC    XL1'00'
000012B7  02                                       760+         DC    HL1'2'            cc
000012B8  0D                                       761+         DC    HL1'13'           cc failed mask
000012B9  E5E3D740 40404040                        762+         DC    CL8'VTP'          instruction name
000012C4  00000010                                 763+         DC    A(16)             result length
000012C8  000012E4                                 764+REA6     DC    A(RE6)            result address
                                                   765+*                                  INSTRUCTION UNDER TEST ROUTINE
000012CC                                           766+X6       DS    0F
000012CC  E710 5034 0006               000012E4    767+         VL    V1,RE6            get V1 source
000012D2  E601 0000 005F                           768+         VTP   V1                      test instruction
000012D8  B98D 0020                                769+         EPSW  R2,R0             exptract psw
000012DC  5020 8E9C                    0000109C    770+         ST    R2,CCPSW              to save CC
000012E0  07FB                                     771+         BR    R11               return
000012E4                                           772+RE6      DC    0F
000012E4                                           773+         DROP  R5
000012E4  F0F00000 00000000                        774          DC    XL16'F0F000000000000001234500000000F'   V1 source
000012EC  00123450 0000000F
                                                   775
                                                   776 * a digit invalid,  sign invalid
                                                   777          VRR_G VTP,0,3
000012F8                                           778+         DS    0FD
000012F8                     000012F8              779+         USING *,R5              base for test data and test routine
000012F8  00001314                                 780+T7       DC    A(X7)             address of test routine
000012FC  0007                                     781+         DC    H'7'              test number
000012FE  00                                       782+         DC    XL1'00'
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000012FF  03                                       783+         DC    HL1'3'            cc
00001300  0E                                       784+         DC    HL1'14'           cc failed mask
00001301  E5E3D740 40404040                        785+         DC    CL8'VTP'          instruction name
0000130C  00000010                                 786+         DC    A(16)             result length
00001310  0000132C                                 787+REA7     DC    A(RE7)            result address
                                                   788+*                                  INSTRUCTION UNDER TEST ROUTINE
00001314                                           789+X7       DS    0F
00001314  E710 5034 0006                0000132C   790+         VL    V1,RE7            get V1 source
0000131A  E601 0000 005F                           791+         VTP   V1                      test instruction
00001320  B98D 0020                                792+         EPSW  R2,R0             exptract psw
00001324  5020 8E9C                     0000109C   793+         ST    R2,CCPSW              to save CC
00001328  07FB                                     794+         BR    R11               return
0000132C                                           795+RE7      DC    0F
0000132C                                           796+         DROP  R5
0000132C  00000000 0FF00000                        797          DC    XL16'000000000FF00000000000000000009'   V1 source
00001334  00000000 00000009
                                                   798
                                                   799          VRR_G VTP,0,3
00001340                                           800+         DS    0FD
00001340                        00001340           801+         USING *,R5              base for test data and test routine
00001340  0000135C                                 802+T8       DC    A(X8)             address of test routine
00001344  0008                                     803+         DC    H'8'              test number
00001346  00                                       804+         DC    XL1'00'
00001347  03                                       805+         DC    HL1'3'            cc
00001348  0E                                       806+         DC    HL1'14'           cc failed mask
00001349  E5E3D740 40404040                        807+         DC    CL8'VTP'          instruction name
00001354  00000010                                 808+         DC    A(16)             result length
00001358  00001374                                 809+REA8     DC    A(RE8)            result address
                                                   810+*                                  INSTRUCTION UNDER TEST ROUTINE
0000135C                                           811+X8       DS    0F
0000135C  E710 5034 0006                00001374   812+         VL    V1,RE8            get V1 source
00001362  E601 0000 005F                           813+         VTP   V1                      test instruction
00001368  B98D 0020                                814+         EPSW  R2,R0             exptract psw
0000136C  5020 8E9C                     0000109C   815+         ST    R2,CCPSW              to save CC
00001370  07FB                                     816+         BR    R11               return
00001374                                           817+RE8      DC    0F
00001374                                           818+         DROP  R5
00001374  F0F00000 00000000                        819          DC    XL16'F0F00000000000000012345000000002'   V1 source
0000137C  00123450 00000002
                                                   820
                                                   821 *-----------------------------------------------------------------
                                                   822 * VTPX    - VECTOR TEST DECIMAL packed-decimal-enhancements facility 3
                                                   823 *-----------------------------------------------------------------
                                                   824 * Enhanced Testing: ET=1
                                                   825 *
                                                   826 * VTP          Byte-Padding Test: BPT
                                                   827 *              Sign-Test Control: STC
                                                   828 *              Digits Count:      DC
                                                   829 *-----------------------------------------------------------------
                                                   830 *  Sign-Test Control: STC=0
                                                   831 *-----------------------------------------------------------------
                                                   832 * BTP=0, STC=0, DC=0                  only sign: A-F valid, no digits
                                                   833          VRR_G VTPX,X'8000',0
00001388                                           834+         DS    0FD
00001388                        00001388           835+         USING *,R5              base for test data and test routine
00001388  000013A4                                 836+T9       DC    A(X9)             address of test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000138C  0009                                     837+         DC    H'9'               test number
0000138E  00                                       838+         DC    XL1'00'
0000138F  00                                       839+         DC    HL1'0'             cc
00001390  07                                       840+         DC    HL1'7'             cc failed mask
00001391  E5E3D7E7 40404040                        841+         DC    CL8'VTPX'          instruction name
0000139C  00000010                                 842+         DC    A(16)              result length
000013A0  000013BC                                 843+REA9     DC    A(RE9)             result address
                                                   844+*                                   INSTRUCTION UNDER TEST ROUTINE
000013A4                                           845+X9       DS    0F
000013A4  E710 5034 0006                 000013BC  846+         VL    V1,RE9             get V1 source

000013AA                                           849+         DS    0H                       E65F VTP - Vector Test Decimal
000013AA  E6                                       850+         DC    X'E6'
000013AB  01                                       851+         DC    X'01'                    v1
000013AC  080000                                   852+         DC    HL3'524288'              0, I3, RXB
000013AF  5F                                       853+         DC    X'5F'

000013B0  B98D 0020                                855+         EPSW  R2,R0              exptract psw
000013B4  5020 8E9C                      0000109C  856+         ST    R2,CCPSW               to save CC
000013B8  07FB                                     857+         BR    R11                return
000013BC                                           858+RE9      DC    0F
000013BC                                           859+         DROP  R5
000013BC  0FF00000 00000000                        860          DC    XL16'0FF0000000000000000000000000A'   V1 source
000013C4  00000000 0000000A
                                                   861
                                                   862          VRR_G VTPX,X'8000',0
000013D0                                           863+         DS    0FD
000013D0                       000013D0            864+         USING *,R5               base for test data and test routine
000013D0  000013EC                                 865+T10      DC    A(X10)             address of test routine
000013D4  000A                                     866+         DC    H'10'              test number
000013D6  00                                       867+         DC    XL1'00'
000013D7  00                                       868+         DC    HL1'0'             cc
000013D8  07                                       869+         DC    HL1'7'             cc failed mask
000013D9  E5E3D7E7 40404040                        870+         DC    CL8'VTPX'          instruction name
000013E4  00000010                                 871+         DC    A(16)              result length
000013E8  00001404                                 872+REA10    DC    A(RE10)            result address
                                                   873+*                                   INSTRUCTION UNDER TEST ROUTINE
000013EC                                           874+X10      DS    0F
000013EC  E710 5034 0006                 00001404  875+         VL    V1,RE10            get V1 source

000013F2                                           878+         DS    0H                       E65F VTP - Vector Test Decimal
000013F2  E6                                       879+         DC    X'E6'
000013F3  01                                       880+         DC    X'01'                    v1
000013F4  080000                                   881+         DC    HL3'524288'              0, I3, RXB
000013F7  5F                                       882+         DC    X'5F'

000013F8  B98D 0020                                884+         EPSW  R2,R0              exptract psw
000013FC  5020 8E9C                      0000109C  885+         ST    R2,CCPSW               to save CC
00001400  07FB                                     886+         BR    R11                return
00001404                                           887+RE10     DC    0F
00001404                                           888+         DROP  R5
00001404  0FF00000 00000000                        889          DC    XL16'0FF0000000000000000000000000B'   V1 source
0000140C  00000000 0000000B
                                                   890
                                                   891          VRR_G VTPX,X'8000',0
00001418                                           892+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001418                     00001418               893+         USING *,R5              base for test data and test routine
00001418  00001434                                  894+T11      DC    A(X11)            address of test routine
0000141C  000B                                      895+         DC    H'11'             test number
0000141E  00                                        896+         DC    XL1'00'
0000141F  00                                        897+         DC    HL1'0'            cc
00001420  07                                        898+         DC    HL1'7'            cc failed mask
00001421  E5E3D7E7 40404040                         899+         DC    CL8'VTPX'         instruction name
0000142C  00000010                                  900+         DC    A(16)             result length
00001430  0000144C                                  901+REA11    DC    A(RE11)           result address
                                                    902+*                                  INSTRUCTION UNDER TEST ROUTINE
00001434                                            903+X11      DS    0F
00001434  E710 5034 0006                0000144C    904+         VL    V1,RE11           get V1 source

0000143A                                            907+         DS    0H                      E65F VTP - Vector Test Decimal
0000143A  E6                                        908+         DC    X'E6'
0000143B  01                                        909+         DC    X'01'                   v1
0000143C  080000                                    910+         DC    HL3'524288'             0, I3, RXB
0000143F  5F                                        911+         DC    X'5F'

00001440  B98D 0020                                 913+         EPSW  R2,R0             exptract psw
00001444  5020 8E9C                     0000109C    914+         ST    R2,CCPSW              to save CC
00001448  07FB                                      915+         BR    R11               return
0000144C                                            916+RE11     DC    0F
0000144C                                            917+         DROP  R5
0000144C  0FF00000 00000000                         918          DC    XL16'0FF0000000000000000000000000000C'   V1 source
00001454  00000000 0000000C
                                                    919
                                                    920          VRR_G VTPX,X'8000',0
00001460                                            921+         DS    0FD
00001460                     00001460               922+         USING *,R5              base for test data and test routine
00001460  0000147C                                  923+T12      DC    A(X12)            address of test routine
00001464  000C                                      924+         DC    H'12'             test number
00001466  00                                        925+         DC    XL1'00'
00001467  00                                        926+         DC    HL1'0'            cc
00001468  07                                        927+         DC    HL1'7'            cc failed mask
00001469  E5E3D7E7 40404040                         928+         DC    CL8'VTPX'         instruction name
00001474  00000010                                  929+         DC    A(16)             result length
00001478  00001494                                  930+REA12    DC    A(RE12)           result address
                                                    931+*                                  INSTRUCTION UNDER TEST ROUTINE
0000147C                                            932+X12      DS    0F
0000147C  E710 5034 0006                00001494    933+         VL    V1,RE12           get V1 source

00001482                                            936+         DS    0H                      E65F VTP - Vector Test Decimal
00001482  E6                                        937+         DC    X'E6'
00001483  01                                        938+         DC    X'01'                   v1
00001484  080000                                    939+         DC    HL3'524288'             0, I3, RXB
00001487  5F                                        940+         DC    X'5F'

00001488  B98D 0020                                 942+         EPSW  R2,R0             exptract psw
0000148C  5020 8E9C                     0000109C    943+         ST    R2,CCPSW              to save CC
00001490  07FB                                      944+         BR    R11               return
00001494                                            945+RE12     DC    0F
00001494                                            946+         DROP  R5
00001494  0FF00000 00000000                         947          DC    XL16'0FF0000000000000000000000000000D'   V1 source
0000149C  00000000 0000000D
                                                    948
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    949          VRR_G VTPX,X'8000',0
000014A8                                            950+         DS    0FD
000014A8                     000014A8               951+         USING *,R5              base for test data and test routine
000014A8  000014C4                                  952+T13      DC    A(X13)            address of test routine
000014AC  000D                                      953+         DC    H'13'             test number
000014AE  00                                        954+         DC    XL1'00'
000014AF  00                                        955+         DC    HL1'0'            cc
000014B0  07                                        956+         DC    HL1'7'            cc failed mask
000014B1  E5E3D7E7 40404040                         957+         DC    CL8'VTPX'         instruction name
000014BC  00000010                                  958+         DC    A(16)             result length
000014C0  000014DC                                  959+REA13    DC    A(RE13)           result address
                                                    960+*                                  INSTRUCTION UNDER TEST ROUTINE
000014C4                                            961+X13      DS    0F
000014C4  E710 5034 0006                000014DC    962+         VL    V1,RE13           get V1 source

000014CA                                            965+         DS    0H                      E65F VTP - Vector Test Decimal
000014CA  E6                                        966+         DC    X'E6'
000014CB  01                                        967+         DC    X'01'                   v1
000014CC  080000                                    968+         DC    HL3'524288'             0, I3, RXB
000014CF  5F                                        969+         DC    X'5F'

000014D0  B98D 0020                                 971+         EPSW  R2,R0             exptract psw
000014D4  5020 8E9C                     0000109C    972+         ST    R2,CCPSW              to save CC
000014D8  07FB                                      973+         BR    R11               return
000014DC                                            974+RE13     DC    0F
000014DC                                            975+         DROP  R5
000014DC  0FF00000 00000000                         976          DC    XL16'0FF0000000000000000000000000000E'   V1 source
000014E4  00000000 0000000E
                                                    977
                                                    978          VRR_G VTPX,X'8000',0
000014F0                                            979+         DS    0FD
000014F0                     000014F0               980+         USING *,R5              base for test data and test routine
000014F0  0000150C                                  981+T14      DC    A(X14)            address of test routine
000014F4  000E                                      982+         DC    H'14'             test number
000014F6  00                                        983+         DC    XL1'00'
000014F7  00                                        984+         DC    HL1'0'            cc
000014F8  07                                        985+         DC    HL1'7'            cc failed mask
000014F9  E5E3D7E7 40404040                         986+         DC    CL8'VTPX'         instruction name
00001504  00000010                                  987+         DC    A(16)             result length
00001508  00001524                                  988+REA14    DC    A(RE14)           result address
                                                    989+*                                  INSTRUCTION UNDER TEST ROUTINE
0000150C                                            990+X14      DS    0F
0000150C  E710 5034 0006                00001524    991+         VL    V1,RE14           get V1 source

00001512                                            994+         DS    0H                      E65F VTP - Vector Test Decimal
00001512  E6                                        995+         DC    X'E6'
00001513  01                                        996+         DC    X'01'                   v1
00001514  080000                                    997+         DC    HL3'524288'             0, I3, RXB
00001517  5F                                        998+         DC    X'5F'

00001518  B98D 0020                                1000+         EPSW  R2,R0             exptract psw
0000151C  5020 8E9C                     0000109C   1001+         ST    R2,CCPSW              to save CC
00001520  07FB                                     1002+         BR    R11               return
00001524                                           1003+RE14     DC    0F
00001524                                           1004+         DROP  R5
00001524  0FF00000 00000000                        1005          DC    XL16'0FF0000000000000000000000000000F'   V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000152C  00000000 0000000F
                                                   1006
                                                   1007          VRR_G VTPX,X'8000',1
00001538                                           1008+         DS    0FD
00001538                       00001538            1009+         USING *,R5              base for test data and test routine
00001538  00001554                                 1010+T15      DC    A(X15)            address of test routine
0000153C  000F                                     1011+         DC    H'15'             test number
0000153E  00                                       1012+         DC    XL1'00'
0000153F  01                                       1013+         DC    HL1'1'            cc
00001540  0B                                       1014+         DC    HL1'11'           cc failed mask
00001541  E5E3D7E7 40404040                        1015+         DC    CL8'VTPX'         instruction name
0000154C  00000010                                 1016+         DC    A(16)             result length
00001550  0000156C                                 1017+REA15    DC    A(RE15)           result address
                                                   1018+*                                  INSTRUCTION UNDER TEST ROUTINE
00001554                                           1019+X15      DS    0F
00001554  E710 5034 0006               0000156C    1020+         VL    V1,RE15           get V1 source

0000155A                                           1023+         DS    0H                      E65F VTP - Vector Test Decimal
0000155A  E6                                       1024+         DC    X'E6'
0000155B  01                                       1025+         DC    X'01'                   v1
0000155C  080000                                   1026+         DC    HL3'524288'             0, I3, RXB
0000155F  5F                                       1027+         DC    X'5F'

00001560  B98D 0020                                1029+         EPSW  R2,R0             exptract psw
00001564  5020 8E9C                    0000109C    1030+         ST    R2,CCPSW              to save CC
00001568  07FB                                     1031+         BR    R11               return
0000156C                                           1032+RE15     DC    0F
0000156C                                           1033+         DROP  R5
0000156C  0FF00000 00000000                        1034          DC    XL16'0FF00000000000000000000000000000'   V1 source
00001574  00000000 00000000
                                                   1035
                                                   1036          VRR_G VTPX,X'8000',1
00001580                                           1037+         DS    0FD
00001580                       00001580            1038+         USING *,R5              base for test data and test routine
00001580  0000159C                                 1039+T16      DC    A(X16)            address of test routine
00001584  0010                                     1040+         DC    H'16'             test number
00001586  00                                       1041+         DC    XL1'00'
00001587  01                                       1042+         DC    HL1'1'            cc
00001588  0B                                       1043+         DC    HL1'11'           cc failed mask
00001589  E5E3D7E7 40404040                        1044+         DC    CL8'VTPX'         instruction name
00001594  00000010                                 1045+         DC    A(16)             result length
00001598  000015B4                                 1046+REA16    DC    A(RE16)           result address
                                                   1047+*                                  INSTRUCTION UNDER TEST ROUTINE
0000159C                                           1048+X16      DS    0F
0000159C  E710 5034 0006               000015B4    1049+         VL    V1,RE16           get V1 source

000015A2                                           1052+         DS    0H                      E65F VTP - Vector Test Decimal
000015A2  E6                                       1053+         DC    X'E6'
000015A3  01                                       1054+         DC    X'01'                   v1
000015A4  080000                                   1055+         DC    HL3'524288'             0, I3, RXB
000015A7  5F                                       1056+         DC    X'5F'

000015A8  B98D 0020                                1058+         EPSW  R2,R0             exptract psw
000015AC  5020 8E9C                    0000109C    1059+         ST    R2,CCPSW              to save CC
000015B0  07FB                                     1060+         BR    R11               return
000015B4                                           1061+RE16     DC    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000015B4                                           1062+         DROP  R5
000015B4  0FF00000 00000000                        1063          DC    XL16'0FF00000000000000000000000000009'   V1 source
000015BC  00000000 00000009
                                                   1064
                                                   1065 * BTP=0, STC=0, DC>0 and odd          sign: A-F valid, n digits
                                                   1066          VRR_G VTPX,X'8005',0
000015C8                                           1067+         DS    0FD
000015C8                       000015C8            1068+         USING *,R5              base for test data and test routine
000015C8  000015E4                                 1069+T17      DC    A(X17)            address of test routine
000015CC  0011                                     1070+         DC    H'17'             test number
000015CE  00                                       1071+         DC    XL1'00'
000015CF  00                                       1072+         DC    HL1'0'            cc
000015D0  07                                       1073+         DC    HL1'7'            cc failed mask
000015D1  E5E3D7E7 40404040                        1074+         DC    CL8'VTPX'         instruction name
000015DC  00000010                                 1075+         DC    A(16)             result length
000015E0  000015FC                                 1076+REA17    DC    A(RE17)           result address
                                                   1077+*                                  INSTRUCTION UNDER TEST ROUTINE
000015E4                                           1078+X17      DS    0F
000015E4  E710 5034 0006                000015FC   1079+         VL    V1,RE17           get V1 source

000015EA                                           1082+         DS    0H                      E65F VTP - Vector Test Decimal
000015EA  E6                                       1083+         DC    X'E6'
000015EB  01                                       1084+         DC    X'01'                   v1
000015EC  080050                                   1085+         DC    HL3'524368'             0, I3, RXB
000015EF  5F                                       1086+         DC    X'5F'

000015F0  B98D 0020                                1088+         EPSW  R2,R0             exptract psw
000015F4  5020 8E9C                     0000109C   1089+         ST    R2,CCPSW                to save CC
000015F8  07FB                                     1090+         BR    R11               return
000015FC                                           1091+RE17     DC    0F
000015FC                                           1092+         DROP  R5
000015FC  0FF00000 00000000                        1093          DC    XL16'0FF00000000000000000000000100A'   V1 source
00001604  00000000 0000100A
                                                   1094
                                                   1095          VRR_G VTPX,X'8007',0
00001610                                           1096+         DS    0FD
00001610                       00001610            1097+         USING *,R5              base for test data and test routine
00001610  0000162C                                 1098+T18      DC    A(X18)            address of test routine
00001614  0012                                     1099+         DC    H'18'             test number
00001616  00                                       1100+         DC    XL1'00'
00001617  00                                       1101+         DC    HL1'0'            cc
00001618  07                                       1102+         DC    HL1'7'            cc failed mask
00001619  E5E3D7E7 40404040                        1103+         DC    CL8'VTPX'         instruction name
00001624  00000010                                 1104+         DC    A(16)             result length
00001628  00001644                                 1105+REA18    DC    A(RE18)           result address
                                                   1106+*                                  INSTRUCTION UNDER TEST ROUTINE
0000162C                                           1107+X18      DS    0F
0000162C  E710 5034 0006                00001644   1108+         VL    V1,RE18           get V1 source

00001632                                           1111+         DS    0H                      E65F VTP - Vector Test Decimal
00001632  E6                                       1112+         DC    X'E6'
00001633  01                                       1113+         DC    X'01'                   v1
00001634  080070                                   1114+         DC    HL3'524400'             0, I3, RXB
00001637  5F                                       1115+         DC    X'5F'

00001638  B98D 0020                                1117+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000163C  5020 8E9C                     0000109C  1118+         ST    R2,CCPSW              to save CC
00001640  07FB                                    1119+         BR    R11                 return
00001644                                          1120+RE18     DC    0F
00001644                                          1121+         DROP  R5
00001644  0FF00000 00000000                       1122          DC    XL16'0FF00000000000000000000000100B'   V1 source
0000164C  00000000 0000100B
                                                  1123
                                                  1124          VRR_G VTPX,X'8009',0
00001658                                          1125+         DS    0FD
00001658                        00001658          1126+         USING *,R5                base for test data and test routine
00001658  00001674                                1127+T19      DC    A(X19)              address of test routine
0000165C  0013                                    1128+         DC    H'19'               test number
0000165E  00                                      1129+         DC    XL1'00'
0000165F  00                                      1130+         DC    HL1'0'              cc
00001660  07                                      1131+         DC    HL1'7'              cc failed mask
00001661  E5E3D7E7 40404040                       1132+         DC    CL8'VTPX'           instruction name
0000166C  00000010                                1133+         DC    A(16)               result length
00001670  0000168C                                1134+REA19    DC    A(RE19)             result address
                                                  1135+*                                    INSTRUCTION UNDER TEST ROUTINE
00001674                                          1136+X19      DS    0F
00001674  E710 5034 0006                0000168C  1137+         VL    V1,RE19             get V1 source

0000167A                                          1140+         DS    0H                        E65F VTP - Vector Test Decimal
0000167A  E6                                      1141+         DC    X'E6'
0000167B  01                                      1142+         DC    X'01'                     v1
0000167C  080090                                  1143+         DC    HL3'524432'               0, I3, RXB
0000167F  5F                                      1144+         DC    X'5F'

00001680  B98D 0020                               1146+         EPSW  R2,R0               exptract psw
00001684  5020 8E9C                     0000109C  1147+         ST    R2,CCPSW              to save CC
00001688  07FB                                    1148+         BR    R11                 return
0000168C                                          1149+RE19     DC    0F
0000168C                                          1150+         DROP  R5
0000168C  0FF00000 00000000                       1151          DC    XL16'0FF00000000000000000000000100C'   V1 source
00001694  00000000 0000100C
                                                  1152
                                                  1153          VRR_G VTPX,X'800B',0
000016A0                                          1154+         DS    0FD
000016A0                        000016A0          1155+         USING *,R5                base for test data and test routine
000016A0  000016BC                                1156+T20      DC    A(X20)              address of test routine
000016A4  0014                                    1157+         DC    H'20'               test number
000016A6  00                                      1158+         DC    XL1'00'
000016A7  00                                      1159+         DC    HL1'0'              cc
000016A8  07                                      1160+         DC    HL1'7'              cc failed mask
000016A9  E5E3D7E7 40404040                       1161+         DC    CL8'VTPX'           instruction name
000016B4  00000010                                1162+         DC    A(16)               result length
000016B8  000016D4                                1163+REA20    DC    A(RE20)             result address
                                                  1164+*                                    INSTRUCTION UNDER TEST ROUTINE
000016BC                                          1165+X20      DS    0F
000016BC  E710 5034 0006                000016D4  1166+         VL    V1,RE20             get V1 source

000016C2                                          1169+         DS    0H                        E65F VTP - Vector Test Decimal
000016C2  E6                                      1170+         DC    X'E6'
000016C3  01                                      1171+         DC    X'01'                     v1
000016C4  0800B0                                  1172+         DC    HL3'524464'               0, I3, RXB
000016C7  5F                                      1173+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000016C8  B98D 0020                                1175+         EPSW  R2,R0             exptract psw
000016CC  5020 8E9C                       0000109C 1176+         ST    R2,CCPSW              to save CC
000016D0  07FB                                     1177+         BR    R11               return
000016D4                                           1178+RE20     DC    0F
000016D4                                           1179+         DROP  R5
000016D4  0FF00000 00000000                        1180          DC    XL16'0FF00000000000000000000000100D'   V1 source
000016DC  00000000 0000100D
                                                   1181
                                                   1182          VRR_G VTPX,X'800D',0
000016E8                                           1183+         DS    0FD
000016E8                          000016E8         1184+         USING *,R5              base for test data and test routine
000016E8  00001704                                 1185+T21      DC    A(X21)            address of test routine
000016EC  0015                                     1186+         DC    H'21'             test number
000016EE  00                                       1187+         DC    XL1'00'
000016EF  00                                       1188+         DC    HL1'0'            cc
000016F0  07                                       1189+         DC    HL1'7'            cc failed mask
000016F1  E5E3D7E7 40404040                        1190+         DC    CL8'VTPX'         instruction name
000016FC  00000010                                 1191+         DC    A(16)             result length
00001700  0000171C                                 1192+REA21    DC    A(RE21)           result address
                                                   1193+*                                  INSTRUCTION UNDER TEST ROUTINE
00001704                                           1194+X21      DS    0F
00001704  E710 5034 0006                  0000171C 1195+         VL    V1,RE21           get V1 source

0000170A                                           1198+         DS    0H                      E65F VTP - Vector Test Decimal
0000170A  E6                                       1199+         DC    X'E6'
0000170B  01                                       1200+         DC    X'01'                   v1
0000170C  0800D0                                   1201+         DC    HL3'524496'             0, I3, RXB
0000170F  5F                                       1202+         DC    X'5F'

00001710  B98D 0020                                1204+         EPSW  R2,R0             exptract psw
00001714  5020 8E9C                       0000109C 1205+         ST    R2,CCPSW              to save CC
00001718  07FB                                     1206+         BR    R11               return
0000171C                                           1207+RE21     DC    0F
0000171C                                           1208+         DROP  R5
0000171C  0FF00000 00000000                        1209          DC    XL16'0FF00000000000000000000000100E'   V1 source
00001724  00000000 0000100E
                                                   1210
                                                   1211          VRR_G VTPX,X'800F',0
00001730                                           1212+         DS    0FD
00001730                          00001730         1213+         USING *,R5              base for test data and test routine
00001730  0000174C                                 1214+T22      DC    A(X22)            address of test routine
00001734  0016                                     1215+         DC    H'22'             test number
00001736  00                                       1216+         DC    XL1'00'
00001737  00                                       1217+         DC    HL1'0'            cc
00001738  07                                       1218+         DC    HL1'7'            cc failed mask
00001739  E5E3D7E7 40404040                        1219+         DC    CL8'VTPX'         instruction name
00001744  00000010                                 1220+         DC    A(16)             result length
00001748  00001764                                 1221+REA22    DC    A(RE22)           result address
                                                   1222+*                                  INSTRUCTION UNDER TEST ROUTINE
0000174C                                           1223+X22      DS    0F
0000174C  E710 5034 0006                  00001764 1224+         VL    V1,RE22           get V1 source

00001752                                           1227+         DS    0H                      E65F VTP - Vector Test Decimal
00001752  E6                                       1228+         DC    X'E6'
00001753  01                                       1229+         DC    X'01'                   v1
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001754  0800F0                                   1230+         DC    HL3'524528'             0, I3, RXB
00001757  5F                                       1231+         DC    X'5F'

00001758  B98D 0020                                1233+         EPSW  R2,R0             exptract psw
0000175C  5020 8E9C                     0000109C   1234+         ST    R2,CCPSW              to save CC
00001760  07FB                                     1235+         BR    R11               return
00001764                                           1236+RE22     DC    0F
00001764                                           1237+         DROP  R5
00001764  0FF00000 00000000                        1238          DC    XL16'0FF00000000000000000000000100F'   V1 source
0000176C  00000000 0000100F
                                                   1239
                                                   1240          VRR_G VTPX,X'800F',1
00001778                                           1241+         DS    0FD
00001778                      00001778             1242+         USING *,R5              base for test data and test routine
00001778  00001794                                 1243+T23      DC    A(X23)            address of test routine
0000177C  0017                                     1244+         DC    H'23'             test number
0000177E  00                                       1245+         DC    XL1'00'
0000177F  01                                       1246+         DC    HL1'1'            cc
00001780  0B                                       1247+         DC    HL1'11'           cc failed mask
00001781  E5E3D7E7 40404040                        1248+         DC    CL8'VTPX'         instruction name
0000178C  00000010                                 1249+         DC    A(16)             result length
00001790  000017AC                                 1250+REA23    DC    A(RE23)           result address
                                                   1251+*                                  INSTRUCTION UNDER TEST ROUTINE
00001794                                           1252+X23      DS    0F
00001794  E710 5034 0006                000017AC   1253+         VL    V1,RE23           get V1 source

0000179A                                           1256+         DS    0H                      E65F VTP - Vector Test Decimal
0000179A  E6                                       1257+         DC    X'E6'
0000179B  01                                       1258+         DC    X'01'                   v1
0000179C  0800F0                                   1259+         DC    HL3'524528'             0, I3, RXB
0000179F  5F                                       1260+         DC    X'5F'

000017A0  B98D 0020                                1262+         EPSW  R2,R0             exptract psw
000017A4  5020 8E9C                     0000109C   1263+         ST    R2,CCPSW              to save CC
000017A8  07FB                                     1264+         BR    R11               return
000017AC                                           1265+RE23     DC    0F
000017AC                                           1266+         DROP  R5
000017AC  0FF00000 00000000                        1267          DC    XL16'0FF00000000000000000000001000'   V1 source
000017B4  00000000 00001000
                                                   1268
                                                   1269          VRR_G VTPX,X'800F',2
000017C0                                           1270+         DS    0FD
000017C0                      000017C0             1271+         USING *,R5              base for test data and test routine
000017C0  000017DC                                 1272+T24      DC    A(X24)            address of test routine
000017C4  0018                                     1273+         DC    H'24'             test number
000017C6  00                                       1274+         DC    XL1'00'
000017C7  02                                       1275+         DC    HL1'2'            cc
000017C8  0D                                       1276+         DC    HL1'13'           cc failed mask
000017C9  E5E3D7E7 40404040                        1277+         DC    CL8'VTPX'         instruction name
000017D4  00000010                                 1278+         DC    A(16)             result length
000017D8  000017F4                                 1279+REA24    DC    A(RE24)           result address
                                                   1280+*                                  INSTRUCTION UNDER TEST ROUTINE
000017DC                                           1281+X24      DS    0F
000017DC  E710 5034 0006                000017F4   1282+         VL    V1,RE24           get V1 source

000017E2                                           1285+         DS    0H                      E65F VTP - Vector Test Decimal
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000017E2  E6                                      1286+         DC    X'E6'
000017E3  01                                      1287+         DC    X'01'                   v1
000017E4  0800F0                                  1288+         DC    HL3'524528'             0, I3, RXB
000017E7  5F                                      1289+         DC    X'5F'

000017E8  B98D 0020                               1291+         EPSW  R2,R0             exptract psw
000017EC  5020 8E9C                     0000109C  1292+         ST    R2,CCPSW              to save CC
000017F0  07FB                                    1293+         BR    R11               return
000017F4                                          1294+RE24     DC    0F
000017F4                                          1295+         DROP  R5
000017F4  0FF00000 00000000                       1296          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000017FC  00000000 0000F00F
                                                  1297
                                                  1298          VRR_G VTPX,X'800F',3
00001808                                          1299+         DS    0FD
00001808                        00001808          1300+         USING *,R5              base for test data and test routine
00001808  00001824                                1301+T25      DC    A(X25)            address of test routine
0000180C  0019                                    1302+         DC    H'25'             test number
0000180E  00                                      1303+         DC    XL1'00'
0000180F  03                                      1304+         DC    HL1'3'            cc
00001810  0E                                      1305+         DC    HL1'14'           cc failed mask
00001811  E5E3D7E7 40404040                       1306+         DC    CL8'VTPX'         instruction name
0000181C  00000010                                1307+         DC    A(16)             result length
00001820  0000183C                                1308+REA25    DC    A(RE25)           result address
                                                  1309+*                                  INSTRUCTION UNDER TEST ROUTINE
00001824                                          1310+X25      DS    0F
00001824  E710 5034 0006                0000183C  1311+         VL    V1,RE25           get V1 source

0000182A                                          1314+         DS    0H                      E65F VTP - Vector Test Decimal
0000182A  E6                                      1315+         DC    X'E6'
0000182B  01                                      1316+         DC    X'01'                   v1
0000182C  0800F0                                  1317+         DC    HL3'524528'             0, I3, RXB
0000182F  5F                                      1318+         DC    X'5F'

00001830  B98D 0020                               1320+         EPSW  R2,R0             exptract psw
00001834  5020 8E9C                     0000109C  1321+         ST    R2,CCPSW              to save CC
00001838  07FB                                    1322+         BR    R11               return
0000183C                                          1323+RE25     DC    0F
0000183C                                          1324+         DROP  R5
0000183C  0FF00000 00000000                       1325          DC    XL16'0FF00000000000000000000000F009'   V1 source
00001844  00000000 0000F009
                                                  1326
                                                  1327 * BTP=0, STC=0, DC>0 and even          sign: A-F valid,  n digits
                                                  1328          VRR_G VTPX,X'8004',0
00001850                                          1329+         DS    0FD
00001850                        00001850          1330+         USING *,R5              base for test data and test routine
00001850  0000186C                                1331+T26      DC    A(X26)            address of test routine
00001854  001A                                    1332+         DC    H'26'             test number
00001856  00                                      1333+         DC    XL1'00'
00001857  00                                      1334+         DC    HL1'0'            cc
00001858  07                                      1335+         DC    HL1'7'            cc failed mask
00001859  E5E3D7E7 40404040                       1336+         DC    CL8'VTPX'         instruction name
00001864  00000010                                1337+         DC    A(16)             result length
00001868  00001884                                1338+REA26    DC    A(RE26)           result address
                                                  1339+*                                  INSTRUCTION UNDER TEST ROUTINE
0000186C                                          1340+X26      DS    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000186C  E710 5034 0006                00001884  1341+         VL    V1,RE26           get V1 source

00001872                                          1344+         DS    0H                      E65F VTP - Vector Test Decimal
00001872  E6                                      1345+         DC    X'E6'
00001873  01                                      1346+         DC    X'01'                   v1
00001874  080040                                  1347+         DC    HL3'524352'             0, I3, RXB
00001877  5F                                      1348+         DC    X'5F'

00001878  B98D 0020                               1350+         EPSW  R2,R0             exptract psw
0000187C  5020 8E9C                     0000109C  1351+         ST    R2,CCPSW              to save CC
00001880  07FB                                    1352+         BR    R11               return
00001884                                          1353+RE26     DC    0F
00001884                                          1354+         DROP  R5
00001884  0FF00000 00000000                       1355          DC    XL16'0FF00000000000000000000000100A'   V1 source
0000188C  00000000 0000100A
                                                  1356
                                                  1357          VRR_G VTPX,X'8006',0
00001898                                          1358+         DS    0FD
00001898                        00001898          1359+         USING *,R5              base for test data and test routine
00001898  000018B4                                1360+T27      DC    A(X27)            address of test routine
0000189C  001B                                    1361+         DC    H'27'             test number
0000189E  00                                      1362+         DC    XL1'00'
0000189F  00                                      1363+         DC    HL1'0'            cc
000018A0  07                                      1364+         DC    HL1'7'            cc failed mask
000018A1  E5E3D7E7 40404040                       1365+         DC    CL8'VTPX'         instruction name
000018AC  00000010                                1366+         DC    A(16)             result length
000018B0  000018CC                                1367+REA27    DC    A(RE27)           result address
                                                  1368+*                                  INSTRUCTION UNDER TEST ROUTINE
000018B4                                          1369+X27      DS    0F
000018B4  E710 5034 0006                000018CC  1370+         VL    V1,RE27           get V1 source

000018BA                                          1373+         DS    0H                      E65F VTP - Vector Test Decimal
000018BA  E6                                      1374+         DC    X'E6'
000018BB  01                                      1375+         DC    X'01'                   v1
000018BC  080060                                  1376+         DC    HL3'524384'             0, I3, RXB
000018BF  5F                                      1377+         DC    X'5F'

000018C0  B98D 0020                               1379+         EPSW  R2,R0             exptract psw
000018C4  5020 8E9C                     0000109C  1380+         ST    R2,CCPSW              to save CC
000018C8  07FB                                    1381+         BR    R11               return
000018CC                                          1382+RE27     DC    0F
000018CC                                          1383+         DROP  R5
000018CC  0FF00000 00000000                       1384          DC    XL16'0FF00000000000000000000000100B'   V1 source
000018D4  00000000 0000100B
                                                  1385
                                                  1386          VRR_G VTPX,X'8008',0
000018E0                                          1387+         DS    0FD
000018E0                        000018E0          1388+         USING *,R5              base for test data and test routine
000018E0  000018FC                                1389+T28      DC    A(X28)            address of test routine
000018E4  001C                                    1390+         DC    H'28'             test number
000018E6  00                                      1391+         DC    XL1'00'
000018E7  00                                      1392+         DC    HL1'0'            cc
000018E8  07                                      1393+         DC    HL1'7'            cc failed mask
000018E9  E5E3D7E7 40404040                       1394+         DC    CL8'VTPX'         instruction name
000018F4  00000010                                1395+         DC    A(16)             result length
000018F8  00001914                                1396+REA28    DC    A(RE28)           result address
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   1397+*                                INSTRUCTION UNDER TEST ROUTINE
000018FC                                           1398+X28      DS    0F
000018FC  E710 5034 0006                00001914   1399+         VL    V1,RE28           get V1 source

00001902                                           1402+         DS    0H                      E65F VTP - Vector Test Decimal
00001902  E6                                       1403+         DC    X'E6'
00001903  01                                       1404+         DC    X'01'                   v1
00001904  080080                                   1405+         DC    HL3'524416'             0, I3, RXB
00001907  5F                                       1406+         DC    X'5F'

00001908  B98D 0020                                1408+         EPSW  R2,R0             exptract psw
0000190C  5020 8E9C                     0000109C   1409+         ST    R2,CCPSW              to save CC
00001910  07FB                                     1410+         BR    R11               return
00001914                                           1411+RE28     DC    0F
00001914                                           1412+         DROP  R5
00001914  0FF00000 00000000                        1413          DC    XL16'0FF0000000000000000000000000100C'   V1 source
0000191C  00000000 0000100C
                                                   1414
                                                   1415          VRR_G VTPX,X'800A',0
00001928                                           1416+         DS    0FD
00001928                        00001928           1417+         USING *,R5              base for test data and test routine
00001928  00001944                                 1418+T29      DC    A(X29)            address of test routine
0000192C  001D                                     1419+         DC    H'29'             test number
0000192E  00                                       1420+         DC    XL1'00'
0000192F  00                                       1421+         DC    HL1'0'            cc
00001930  07                                       1422+         DC    HL1'7'            cc failed mask
00001931  E5E3D7E7 40404040                        1423+         DC    CL8'VTPX'         instruction name
0000193C  00000010                                 1424+         DC    A(16)             result length
00001940  0000195C                                 1425+REA29    DC    A(RE29)           result address
                                                   1426+*                                INSTRUCTION UNDER TEST ROUTINE
00001944                                           1427+X29      DS    0F
00001944  E710 5034 0006                0000195C   1428+         VL    V1,RE29           get V1 source

0000194A                                           1431+         DS    0H                      E65F VTP - Vector Test Decimal
0000194A  E6                                       1432+         DC    X'E6'
0000194B  01                                       1433+         DC    X'01'                   v1
0000194C  0800A0                                   1434+         DC    HL3'524448'             0, I3, RXB
0000194F  5F                                       1435+         DC    X'5F'

00001950  B98D 0020                                1437+         EPSW  R2,R0             exptract psw
00001954  5020 8E9C                     0000109C   1438+         ST    R2,CCPSW              to save CC
00001958  07FB                                     1439+         BR    R11               return
0000195C                                           1440+RE29     DC    0F
0000195C                                           1441+         DROP  R5
0000195C  0FF00000 00000000                        1442          DC    XL16'0FF0000000000000000000000000100D'   V1 source
00001964  00000000 0000100D
                                                   1443
                                                   1444          VRR_G VTPX,X'800C',0
00001970                                           1445+         DS    0FD
00001970                        00001970           1446+         USING *,R5              base for test data and test routine
00001970  0000198C                                 1447+T30      DC    A(X30)            address of test routine
00001974  001E                                     1448+         DC    H'30'             test number
00001976  00                                       1449+         DC    XL1'00'
00001977  00                                       1450+         DC    HL1'0'            cc
00001978  07                                       1451+         DC    HL1'7'            cc failed mask
00001979  E5E3D7E7 40404040                        1452+         DC    CL8'VTPX'         instruction name
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001984  00000010                                 1453+         DC    A(16)              result length
00001988  000019A4                                 1454+REA30    DC    A(RE30)            result address
                                                   1455+*                                   INSTRUCTION UNDER TEST ROUTINE
0000198C                                           1456+X30      DS    0F
0000198C  E710 5034 0006                 000019A4  1457+         VL    V1,RE30            get V1 source

00001992                                           1460+         DS    0H                       E65F VTP - Vector Test Decimal
00001992  E6                                       1461+         DC    X'E6'
00001993  01                                       1462+         DC    X'01'                    v1
00001994  0800C0                                   1463+         DC    HL3'524480'              0, I3, RXB
00001997  5F                                       1464+         DC    X'5F'

00001998  B98D 0020                                1466+         EPSW  R2,R0              exptract psw
0000199C  5020 8E9C                      0000109C  1467+         ST    R2,CCPSW               to save CC
000019A0  07FB                                     1468+         BR    R11                return
000019A4                                           1469+RE30     DC    0F
000019A4                                           1470+         DROP  R5
000019A4  0FF00000 00000000                        1471          DC    XL16'0FF00000000000000000000000100E'   V1 source
000019AC  00000000 0000100E
                                                   1472
                                                   1473          VRR_G VTPX,X'800E',0
000019B8                                           1474+         DS    0FD
000019B8                       000019B8            1475+         USING *,R5               base for test data and test routine
000019B8  000019D4                                 1476+T31      DC    A(X31)             address of test routine
000019BC  001F                                     1477+         DC    H'31'              test number
000019BE  00                                       1478+         DC    XL1'00'
000019BF  00                                       1479+         DC    HL1'0'             cc
000019C0  07                                       1480+         DC    HL1'7'             cc failed mask
000019C1  E5E3D7E7 40404040                        1481+         DC    CL8'VTPX'          instruction name
000019CC  00000010                                 1482+         DC    A(16)              result length
000019D0  000019EC                                 1483+REA31    DC    A(RE31)            result address
                                                   1484+*                                   INSTRUCTION UNDER TEST ROUTINE
000019D4                                           1485+X31      DS    0F
000019D4  E710 5034 0006                 000019EC  1486+         VL    V1,RE31            get V1 source

000019DA                                           1489+         DS    0H                       E65F VTP - Vector Test Decimal
000019DA  E6                                       1490+         DC    X'E6'
000019DB  01                                       1491+         DC    X'01'                    v1
000019DC  0800E0                                   1492+         DC    HL3'524512'              0, I3, RXB
000019DF  5F                                       1493+         DC    X'5F'

000019E0  B98D 0020                                1495+         EPSW  R2,R0              exptract psw
000019E4  5020 8E9C                      0000109C  1496+         ST    R2,CCPSW               to save CC
000019E8  07FB                                     1497+         BR    R11                return
000019EC                                           1498+RE31     DC    0F
000019EC                                           1499+         DROP  R5
000019EC  0FF00000 00000000                        1500          DC    XL16'0FF00000000000000000000000100F'   V1 source
000019F4  00000000 0000100F
                                                   1501
                                                   1502          VRR_G VTPX,X'800E',1
00001A00                                           1503+         DS    0FD
00001A00                       00001A00            1504+         USING *,R5               base for test data and test routine
00001A00  00001A1C                                 1505+T32      DC    A(X32)             address of test routine
00001A04  0020                                     1506+         DC    H'32'              test number
00001A06  00                                       1507+         DC    XL1'00'
00001A07  01                                       1508+         DC    HL1'1'             cc
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001A08  0B                                       1509+         DC    HL1'11'           cc failed mask
00001A09  E5E3D7E7 40404040                        1510+         DC    CL8'VTPX'         instruction name
00001A14  00000010                                 1511+         DC    A(16)             result length
00001A18  00001A34                                 1512+REA32    DC    A(RE32)           result address
                                                   1513+*                                  INSTRUCTION UNDER TEST ROUTINE
00001A1C                                           1514+X32      DS    0F
00001A1C  E710 5034 0006                 00001A34  1515+         VL    V1,RE32           get V1 source

00001A22                                           1518+         DS    0H                      E65F VTP - Vector Test Decimal
00001A22  E6                                       1519+         DC    X'E6'
00001A23  01                                       1520+         DC    X'01'                   v1
00001A24  0800E0                                   1521+         DC    HL3'524512'             0, I3, RXB
00001A27  5F                                       1522+         DC    X'5F'

00001A28  B98D 0020                                1524+         EPSW  R2,R0             exptract psw
00001A2C  5020 8E9C                      0000109C  1525+         ST    R2,CCPSW              to save CC
00001A30  07FB                                     1526+         BR    R11               return
00001A34                                           1527+RE32     DC    0F
00001A34                                           1528+         DROP  R5
00001A34  0FF00000 00000000                        1529          DC    XL16'0FF00000000000000000000000001000'   V1 source
00001A3C  00000000 00001000
                                                   1530
                                                   1531          VRR_G VTPX,X'800E',2
00001A48                                           1532+         DS    0FD
00001A48                      00001A48             1533+         USING *,R5              base for test data and test routine
00001A48  00001A64                                 1534+T33      DC    A(X33)            address of test routine
00001A4C  0021                                     1535+         DC    H'33'             test number
00001A4E  00                                       1536+         DC    XL1'00'
00001A4F  02                                       1537+         DC    HL1'2'            cc
00001A50  0D                                       1538+         DC    HL1'13'           cc failed mask
00001A51  E5E3D7E7 40404040                        1539+         DC    CL8'VTPX'         instruction name
00001A5C  00000010                                 1540+         DC    A(16)             result length
00001A60  00001A7C                                 1541+REA33    DC    A(RE33)           result address
                                                   1542+*                                  INSTRUCTION UNDER TEST ROUTINE
00001A64                                           1543+X33      DS    0F
00001A64  E710 5034 0006                 00001A7C  1544+         VL    V1,RE33           get V1 source

00001A6A                                           1547+         DS    0H                      E65F VTP - Vector Test Decimal
00001A6A  E6                                       1548+         DC    X'E6'
00001A6B  01                                       1549+         DC    X'01'                   v1
00001A6C  0800E0                                   1550+         DC    HL3'524512'             0, I3, RXB
00001A6F  5F                                       1551+         DC    X'5F'

00001A70  B98D 0020                                1553+         EPSW  R2,R0             exptract psw
00001A74  5020 8E9C                      0000109C  1554+         ST    R2,CCPSW              to save CC
00001A78  07FB                                     1555+         BR    R11               return
00001A7C                                           1556+RE33     DC    0F
00001A7C                                           1557+         DROP  R5
00001A7C  0FF00000 00000000                        1558          DC    XL16'0FF00000000000000000000000F00F'   V1 source
00001A84  00000000 0000F00F
                                                   1559
                                                   1560          VRR_G VTPX,X'800E',3
00001A90                                           1561+         DS    0FD
00001A90                      00001A90             1562+         USING *,R5              base for test data and test routine
00001A90  00001AAC                                 1563+T34      DC    A(X34)            address of test routine
00001A94  0022                                     1564+         DC    H'34'             test number
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001A96  00                                      1565+         DC    XL1'00'
00001A97  03                                      1566+         DC    HL1'3'            cc
00001A98  0E                                      1567+         DC    HL1'14'           cc failed mask
00001A99  E5E3D7E7 40404040                       1568+         DC    CL8'VTPX'         instruction name
00001AA4  00000010                                1569+         DC    A(16)             result length
00001AA8  00001AC4                                1570+REA34    DC    A(RE34)           result address
                                                  1571+*                                  INSTRUCTION UNDER TEST ROUTINE
00001AAC                                          1572+X34      DS    0F
00001AAC  E710 5034 0006                00001AC4  1573+         VL    V1,RE34           get V1 source

00001AB2                                          1576+         DS    0H                      E65F VTP - Vector Test Decimal
00001AB2  E6                                      1577+         DC    X'E6'
00001AB3  01                                      1578+         DC    X'01'                   v1
00001AB4  0800E0                                  1579+         DC    HL3'524512'             0, I3, RXB
00001AB7  5F                                      1580+         DC    X'5F'

00001AB8  B98D 0020                               1582+         EPSW  R2,R0             exptract psw
00001ABC  5020 8E9C                     0000109C  1583+         ST    R2,CCPSW              to save CC
00001AC0  07FB                                    1584+         BR    R11               return
00001AC4                                          1585+RE34     DC    0F
00001AC4                                          1586+         DROP  R5
00001AC4  0FF00000 00000000                       1587          DC    XL16'0FF000000000000000000000000F009'   V1 source
00001ACC  00000000 0000F009
                                                  1588
                                                  1589 * BTP=1, STC=0, DC>0 and even          sign: A-F valid, N+1 digits
                                                  1590          VRR_G VTPX,X'C004',0
00001AD8                                          1591+         DS    0FD
00001AD8                        00001AD8          1592+         USING *,R5              base for test data and test routine
00001AD8  00001AF4                                1593+T35      DC    A(X35)            address of test routine
00001ADC  0023                                    1594+         DC    H'35'             test number
00001ADE  00                                      1595+         DC    XL1'00'
00001ADF  00                                      1596+         DC    HL1'0'            cc
00001AE0  07                                      1597+         DC    HL1'7'            cc failed mask
00001AE1  E5E3D7E7 40404040                       1598+         DC    CL8'VTPX'         instruction name
00001AEC  00000010                                1599+         DC    A(16)             result length
00001AF0  00001B0C                                1600+REA35    DC    A(RE35)           result address
                                                  1601+*                                  INSTRUCTION UNDER TEST ROUTINE
00001AF4                                          1602+X35      DS    0F
00001AF4  E710 5034 0006                00001B0C  1603+         VL    V1,RE35           get V1 source

00001AFA                                          1606+         DS    0H                      E65F VTP - Vector Test Decimal
00001AFA  E6                                      1607+         DC    X'E6'
00001AFB  01                                      1608+         DC    X'01'                   v1
00001AFC  0C0040                                  1609+         DC    HL3'786496'             0, I3, RXB
00001AFF  5F                                      1610+         DC    X'5F'

00001B00  B98D 0020                               1612+         EPSW  R2,R0             exptract psw
00001B04  5020 8E9C                     0000109C  1613+         ST    R2,CCPSW              to save CC
00001B08  07FB                                    1614+         BR    R11               return
00001B0C                                          1615+RE35     DC    0F
00001B0C                                          1616+         DROP  R5
00001B0C  0FF00000 00000000                       1617          DC    XL16'0FF000000000000000000000000100A'   V1 source
00001B14  00000000 0000100A
                                                  1618
                                                  1619          VRR_G VTPX,X'C006',0
00001B20                                          1620+         DS    0FD
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001B20                     00001B20              1621+         USING *,R5              base for test data and test routine
00001B20  00001B3C                                 1622+T36      DC    A(X36)            address of test routine
00001B24  0024                                     1623+         DC    H'36'             test number
00001B26  00                                       1624+         DC    XL1'00'
00001B27  00                                       1625+         DC    HL1'0'            cc
00001B28  07                                       1626+         DC    HL1'7'            cc failed mask
00001B29  E5E3D7E7 40404040                        1627+         DC    CL8'VTPX'         instruction name
00001B34  00000010                                 1628+         DC    A(16)             result length
00001B38  00001B54                                 1629+REA36    DC    A(RE36)           result address
                                                   1630+*                                  INSTRUCTION UNDER TEST ROUTINE
00001B3C                                           1631+X36      DS    0F
00001B3C  E710 5034 0006                00001B54   1632+         VL    V1,RE36           get V1 source

00001B42                                           1635+         DS    0H                      E65F VTP - Vector Test Decimal
00001B42  E6                                       1636+         DC    X'E6'
00001B43  01                                       1637+         DC    X'01'                   v1
00001B44  0C0060                                   1638+         DC    HL3'786528'             0, I3, RXB
00001B47  5F                                       1639+         DC    X'5F'

00001B48  B98D 0020                                1641+         EPSW  R2,R0             exptract psw
00001B4C  5020 8E9C                     0000109C   1642+         ST    R2,CCPSW              to save CC
00001B50  07FB                                     1643+         BR    R11               return
00001B54                                           1644+RE36     DC    0F
00001B54                                           1645+         DROP  R5
00001B54  0FF00000 00000000                        1646          DC    XL16'0FF00000000000000000000000100B'   V1 source
00001B5C  00000000 0000100B
                                                   1647
                                                   1648          VRR_G VTPX,X'C008',0
00001B68                                           1649+         DS    0FD
00001B68                     00001B68              1650+         USING *,R5              base for test data and test routine
00001B68  00001B84                                 1651+T37      DC    A(X37)            address of test routine
00001B6C  0025                                     1652+         DC    H'37'             test number
00001B6E  00                                       1653+         DC    XL1'00'
00001B6F  00                                       1654+         DC    HL1'0'            cc
00001B70  07                                       1655+         DC    HL1'7'            cc failed mask
00001B71  E5E3D7E7 40404040                        1656+         DC    CL8'VTPX'         instruction name
00001B7C  00000010                                 1657+         DC    A(16)             result length
00001B80  00001B9C                                 1658+REA37    DC    A(RE37)           result address
                                                   1659+*                                  INSTRUCTION UNDER TEST ROUTINE
00001B84                                           1660+X37      DS    0F
00001B84  E710 5034 0006                00001B9C   1661+         VL    V1,RE37           get V1 source

00001B8A                                           1664+         DS    0H                      E65F VTP - Vector Test Decimal
00001B8A  E6                                       1665+         DC    X'E6'
00001B8B  01                                       1666+         DC    X'01'                   v1
00001B8C  0C0080                                   1667+         DC    HL3'786560'             0, I3, RXB
00001B8F  5F                                       1668+         DC    X'5F'

00001B90  B98D 0020                                1670+         EPSW  R2,R0             exptract psw
00001B94  5020 8E9C                     0000109C   1671+         ST    R2,CCPSW              to save CC
00001B98  07FB                                     1672+         BR    R11               return
00001B9C                                           1673+RE37     DC    0F
00001B9C                                           1674+         DROP  R5
00001B9C  0FF00000 00000000                        1675          DC    XL16'0FF00000000000000000000000100C'   V1 source
00001BA4  00000000 0000100C
                                                   1676
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   1677          VRR_G VTPX,X'C00A',0
00001BB0                                           1678+         DS    0FD
00001BB0                     00001BB0              1679+         USING *,R5              base for test data and test routine
00001BB0  00001BCC                                 1680+T38      DC    A(X38)            address of test routine
00001BB4  0026                                     1681+         DC    H'38'             test number
00001BB6  00                                       1682+         DC    XL1'00'
00001BB7  00                                       1683+         DC    HL1'0'            cc
00001BB8  07                                       1684+         DC    HL1'7'            cc failed mask
00001BB9  E5E3D7E7 40404040                        1685+         DC    CL8'VTPX'         instruction name
00001BC4  00000010                                 1686+         DC    A(16)             result length
00001BC8  00001BE4                                 1687+REA38    DC    A(RE38)           result address
                                                   1688+*                                  INSTRUCTION UNDER TEST ROUTINE
00001BCC                                           1689+X38      DS    0F
00001BCC  E710 5034 0006                00001BE4   1690+         VL    V1,RE38           get V1 source

00001BD2                                           1693+         DS    0H                      E65F VTP - Vector Test Decimal
00001BD2  E6                                       1694+         DC    X'E6'
00001BD3  01                                       1695+         DC    X'01'                   v1
00001BD4  0C00A0                                   1696+         DC    HL3'786592'             0, I3, RXB
00001BD7  5F                                       1697+         DC    X'5F'

00001BD8  B98D 0020                                1699+         EPSW  R2,R0             exptract psw
00001BDC  5020 8E9C                     0000109C   1700+         ST    R2,CCPSW              to save CC
00001BE0  07FB                                     1701+         BR    R11               return
00001BE4                                           1702+RE38     DC    0F
00001BE4                                           1703+         DROP  R5
00001BE4  0FF00000 00000000                        1704          DC    XL16'0FF000000000000000000000000100D'   V1 source
00001BEC  00000000 0000100D
                                                   1705
                                                   1706          VRR_G VTPX,X'C00C',0
00001BF8                                           1707+         DS    0FD
00001BF8                     00001BF8              1708+         USING *,R5              base for test data and test routine
00001BF8  00001C14                                 1709+T39      DC    A(X39)            address of test routine
00001BFC  0027                                     1710+         DC    H'39'             test number
00001BFE  00                                       1711+         DC    XL1'00'
00001BFF  00                                       1712+         DC    HL1'0'            cc
00001C00  07                                       1713+         DC    HL1'7'            cc failed mask
00001C01  E5E3D7E7 40404040                        1714+         DC    CL8'VTPX'         instruction name
00001C0C  00000010                                 1715+         DC    A(16)             result length
00001C10  00001C2C                                 1716+REA39    DC    A(RE39)           result address
                                                   1717+*                                  INSTRUCTION UNDER TEST ROUTINE
00001C14                                           1718+X39      DS    0F
00001C14  E710 5034 0006                00001C2C   1719+         VL    V1,RE39           get V1 source

00001C1A                                           1722+         DS    0H                      E65F VTP - Vector Test Decimal
00001C1A  E6                                       1723+         DC    X'E6'
00001C1B  01                                       1724+         DC    X'01'                   v1
00001C1C  0C00C0                                   1725+         DC    HL3'786624'             0, I3, RXB
00001C1F  5F                                       1726+         DC    X'5F'

00001C20  B98D 0020                                1728+         EPSW  R2,R0             exptract psw
00001C24  5020 8E9C                     0000109C   1729+         ST    R2,CCPSW              to save CC
00001C28  07FB                                     1730+         BR    R11               return
00001C2C                                           1731+RE39     DC    0F
00001C2C                                           1732+         DROP  R5
00001C2C  0FF00000 00000000                        1733          DC    XL16'0FF000000000000000000000000100E'   V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001C34  00000000 0000100E
                                                   1734
                                                   1735          VRR_G VTPX,X'C004',0
00001C40                                           1736+         DS    0FD
00001C40                       00001C40            1737+         USING *,R5              base for test data and test routine
00001C40  00001C5C                                 1738+T40      DC    A(X40)            address of test routine
00001C44  0028                                     1739+         DC    H'40'             test number
00001C46  00                                       1740+         DC    XL1'00'
00001C47  00                                       1741+         DC    HL1'0'            cc
00001C48  07                                       1742+         DC    HL1'7'            cc failed mask
00001C49  E5E3D7E7 40404040                        1743+         DC    CL8'VTPX'         instruction name
00001C54  00000010                                 1744+         DC    A(16)             result length
00001C58  00001C74                                 1745+REA40    DC    A(RE40)           result address
                                                   1746+*                                  INSTRUCTION UNDER TEST ROUTINE
00001C5C                                           1747+X40      DS    0F
00001C5C  E710 5034 0006                00001C74   1748+         VL    V1,RE40           get V1 source

00001C62                                           1751+         DS    0H                      E65F VTP - Vector Test Decimal
00001C62  E6                                       1752+         DC    X'E6'
00001C63  01                                       1753+         DC    X'01'                   v1
00001C64  0C0040                                   1754+         DC    HL3'786496'             0, I3, RXB
00001C67  5F                                       1755+         DC    X'5F'

00001C68  B98D 0020                                1757+         EPSW  R2,R0             exptract psw
00001C6C  5020 8E9C                     0000109C   1758+         ST    R2,CCPSW              to save CC
00001C70  07FB                                     1759+         BR    R11               return
00001C74                                           1760+RE40     DC    0F
00001C74                                           1761+         DROP  R5
00001C74  0FF00000 00000000                        1762          DC    XL16'0FF00000000000000000000001100F'   V1 source
00001C7C  00000000 0001100F
                                                   1763
                                                   1764          VRR_G VTPX,X'C004',2
00001C88                                           1765+         DS    0FD
00001C88                       00001C88            1766+         USING *,R5              base for test data and test routine
00001C88  00001CA4                                 1767+T41      DC    A(X41)            address of test routine
00001C8C  0029                                     1768+         DC    H'41'             test number
00001C8E  00                                       1769+         DC    XL1'00'
00001C8F  02                                       1770+         DC    HL1'2'            cc
00001C90  0D                                       1771+         DC    HL1'13'           cc failed mask
00001C91  E5E3D7E7 40404040                        1772+         DC    CL8'VTPX'         instruction name
00001C9C  00000010                                 1773+         DC    A(16)             result length
00001CA0  00001CBC                                 1774+REA41    DC    A(RE41)           result address
                                                   1775+*                                  INSTRUCTION UNDER TEST ROUTINE
00001CA4                                           1776+X41      DS    0F
00001CA4  E710 5034 0006                00001CBC   1777+         VL    V1,RE41           get V1 source

00001CAA                                           1780+         DS    0H                      E65F VTP - Vector Test Decimal
00001CAA  E6                                       1781+         DC    X'E6'
00001CAB  01                                       1782+         DC    X'01'                   v1
00001CAC  0C0040                                   1783+         DC    HL3'786496'             0, I3, RXB
00001CAF  5F                                       1784+         DC    X'5F'

00001CB0  B98D 0020                                1786+         EPSW  R2,R0             exptract psw
00001CB4  5020 8E9C                     0000109C   1787+         ST    R2,CCPSW              to save CC
00001CB8  07FB                                     1788+         BR    R11               return
00001CBC                                           1789+RE41     DC    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001CBC                                           1790+         DROP  R5
00001CBC  0FF00000 00000000                        1791          DC    XL16'0FF00000000000000000000011100F'   V1 source
00001CC4  00000000 0011100F
                                                   1792
                                                   1793          VRR_G VTPX,X'C004',1
00001CD0                                           1794+         DS    0FD
00001CD0                      00001CD0             1795+         USING *,R5              base for test data and test routine
00001CD0  00001CEC                                 1796+T42      DC    A(X42)            address of test routine
00001CD4  002A                                     1797+         DC    H'42'             test number
00001CD6  00                                       1798+         DC    XL1'00'
00001CD7  01                                       1799+         DC    HL1'1'            cc
00001CD8  0B                                       1800+         DC    HL1'11'           cc failed mask
00001CD9  E5E3D7E7 40404040                        1801+         DC    CL8'VTPX'         instruction name
00001CE4  00000010                                 1802+         DC    A(16)             result length
00001CE8  00001D04                                 1803+REA42    DC    A(RE42)           result address
                                                   1804+*                                  INSTRUCTION UNDER TEST ROUTINE
00001CEC                                           1805+X42      DS    0F
00001CEC  E710 5034 0006                00001D04   1806+         VL    V1,RE42           get V1 source

00001CF2                                           1809+         DS    0H                      E65F VTP - Vector Test Decimal
00001CF2  E6                                       1810+         DC    X'E6'
00001CF3  01                                       1811+         DC    X'01'                   v1
00001CF4  0C0040                                   1812+         DC    HL3'786496'             0, I3, RXB
00001CF7  5F                                       1813+         DC    X'5F'

00001CF8  B98D 0020                                1815+         EPSW  R2,R0             exptract psw
00001CFC  5020 8E9C                     0000109C   1816+         ST    R2,CCPSW                to save CC
00001D00  07FB                                     1817+         BR    R11               return
00001D04                                           1818+RE42     DC    0F
00001D04                                           1819+         DROP  R5
00001D04  0FF00000 00000000                        1820          DC    XL16'0FF00000000000000000000011000'   V1 source
00001D0C  00000000 00011000
                                                   1821
                                                   1822          VRR_G VTPX,X'C004',2
00001D18                                           1823+         DS    0FD
00001D18                      00001D18             1824+         USING *,R5              base for test data and test routine
00001D18  00001D34                                 1825+T43      DC    A(X43)            address of test routine
00001D1C  002B                                     1826+         DC    H'43'             test number
00001D1E  00                                       1827+         DC    XL1'00'
00001D1F  02                                       1828+         DC    HL1'2'            cc
00001D20  0D                                       1829+         DC    HL1'13'           cc failed mask
00001D21  E5E3D7E7 40404040                        1830+         DC    CL8'VTPX'         instruction name
00001D2C  00000010                                 1831+         DC    A(16)             result length
00001D30  00001D4C                                 1832+REA43    DC    A(RE43)           result address
                                                   1833+*                                  INSTRUCTION UNDER TEST ROUTINE
00001D34                                           1834+X43      DS    0F
00001D34  E710 5034 0006                00001D4C   1835+         VL    V1,RE43           get V1 source

00001D3A                                           1838+         DS    0H                      E65F VTP - Vector Test Decimal
00001D3A  E6                                       1839+         DC    X'E6'
00001D3B  01                                       1840+         DC    X'01'                   v1
00001D3C  0C0040                                   1841+         DC    HL3'786496'             0, I3, RXB
00001D3F  5F                                       1842+         DC    X'5F'

00001D40  B98D 0020                                1844+         EPSW  R2,R0             exptract psw
00001D44  5020 8E9C                     0000109C   1845+         ST    R2,CCPSW                to save CC
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001D48  07FB                                     1846+         BR    R11                 return
00001D4C                                           1847+RE43     DC    0F
00001D4C                                           1848+         DROP  R5
00001D4C  0FF00000 00000000                        1849          DC    XL16'0FF00000000000000000000001F00F'   V1 source
00001D54  00000000 0001F00F
                                                   1850
                                                   1851          VRR_G VTPX,X'C004',3
00001D60                                           1852+         DS    0FD
00001D60                      00001D60             1853+         USING *,R5                base for test data and test routine
00001D60  00001D7C                                 1854+T44      DC    A(X44)              address of test routine
00001D64  002C                                     1855+         DC    H'44'               test number
00001D66  00                                       1856+         DC    XL1'00'
00001D67  03                                       1857+         DC    HL1'3'              cc
00001D68  0E                                       1858+         DC    HL1'14'             cc failed mask
00001D69  E5E3D7E7 40404040                        1859+         DC    CL8'VTPX'           instruction name
00001D74  00000010                                 1860+         DC    A(16)               result length
00001D78  00001D94                                 1861+REA44    DC    A(RE44)             result address
                                                   1862+*                                    INSTRUCTION UNDER TEST ROUTINE
00001D7C                                           1863+X44      DS    0F
00001D7C  E710 5034 0006                00001D94   1864+         VL    V1,RE44             get V1 source

00001D82                                           1867+         DS    0H                        E65F VTP - Vector Test Decimal
00001D82  E6                                       1868+         DC    X'E6'
00001D83  01                                       1869+         DC    X'01'                     v1
00001D84  0C0040                                   1870+         DC    HL3'786496'               0, I3, RXB
00001D87  5F                                       1871+         DC    X'5F'

00001D88  B98D 0020                                1873+         EPSW  R2,R0               exptract psw
00001D8C  5020 8E9C                     0000109C   1874+         ST    R2,CCPSW                to save CC
00001D90  07FB                                     1875+         BR    R11                 return
00001D94                                           1876+RE44     DC    0F
00001D94                                           1877+         DROP  R5
00001D94  0FF00000 00000000                        1878          DC    XL16'0FF00000000000000000000111009'   V1 source
00001D9C  00000000 00111009
                                                   1879
                                                   1880 *-----------------------------------------------------------------
                                                   1881 *  Sign-Test Control: STC=1
                                                   1882 *-----------------------------------------------------------------
                                                   1883 * BTP=0, STC=1, DC=0                  only sign: A-F valid, no digits
                                                   1884          VRR_G VTPX,X'8020',0
00001DA8                                           1885+         DS    0FD
00001DA8                      00001DA8             1886+         USING *,R5                base for test data and test routine
00001DA8  00001DC4                                 1887+T45      DC    A(X45)              address of test routine
00001DAC  002D                                     1888+         DC    H'45'               test number
00001DAE  00                                       1889+         DC    XL1'00'
00001DAF  00                                       1890+         DC    HL1'0'              cc
00001DB0  07                                       1891+         DC    HL1'7'              cc failed mask
00001DB1  E5E3D7E7 40404040                        1892+         DC    CL8'VTPX'           instruction name
00001DBC  00000010                                 1893+         DC    A(16)               result length
00001DC0  00001DDC                                 1894+REA45    DC    A(RE45)             result address
                                                   1895+*                                    INSTRUCTION UNDER TEST ROUTINE
00001DC4                                           1896+X45      DS    0F
00001DC4  E710 5034 0006                00001DDC   1897+         VL    V1,RE45             get V1 source

00001DCA                                           1900+         DS    0H                        E65F VTP - Vector Test Decimal
00001DCA  E6                                       1901+         DC    X'E6'
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001DCB  01                                      1902+         DC    X'01'                   v1
00001DCC  080200                                  1903+         DC    HL3'524800'             0, I3, RXB
00001DCF  5F                                      1904+         DC    X'5F'

00001DD0  B98D 0020                               1906+         EPSW  R2,R0             exptract psw
00001DD4  5020 8E9C                     0000109C  1907+         ST    R2,CCPSW              to save CC
00001DD8  07FB                                    1908+         BR    R11               return
00001DDC                                          1909+RE45     DC    0F
00001DDC                                          1910+         DROP  R5
00001DDC  0FF00000 00000000                       1911          DC    XL16'0FF0000000000000000000000000000A'   V1 source
00001DE4  00000000 0000000A
                                                  1912
                                                  1913          VRR_G VTPX,X'8020',0
00001DF0                                          1914+         DS    0FD
00001DF0                        00001DF0          1915+         USING *,R5              base for test data and test routine
00001DF0  00001E0C                                1916+T46      DC    A(X46)            address of test routine
00001DF4  002E                                    1917+         DC    H'46'             test number
00001DF6  00                                      1918+         DC    XL1'00'
00001DF7  00                                      1919+         DC    HL1'0'            cc
00001DF8  07                                      1920+         DC    HL1'7'            cc failed mask
00001DF9  E5E3D7E7 40404040                       1921+         DC    CL8'VTPX'         instruction name
00001E04  00000010                                1922+         DC    A(16)             result length
00001E08  00001E24                                1923+REA46    DC    A(RE46)           result address
                                                  1924+*                                  INSTRUCTION UNDER TEST ROUTINE
00001E0C                                          1925+X46      DS    0F
00001E0C  E710 5034 0006                00001E24  1926+         VL    V1,RE46           get V1 source

00001E12                                          1929+         DS    0H                      E65F VTP - Vector Test Decimal
00001E12  E6                                      1930+         DC    X'E6'
00001E13  01                                      1931+         DC    X'01'                   v1
00001E14  080200                                  1932+         DC    HL3'524800'             0, I3, RXB
00001E17  5F                                      1933+         DC    X'5F'

00001E18  B98D 0020                               1935+         EPSW  R2,R0             exptract psw
00001E1C  5020 8E9C                     0000109C  1936+         ST    R2,CCPSW              to save CC
00001E20  07FB                                    1937+         BR    R11               return
00001E24                                          1938+RE46     DC    0F
00001E24                                          1939+         DROP  R5
00001E24  0FF00000 00000000                       1940          DC    XL16'0FF0000000000000000000000000B'   V1 source
00001E2C  00000000 0000000B
                                                  1941
                                                  1942          VRR_G VTPX,X'8020',0
00001E38                                          1943+         DS    0FD
00001E38                        00001E38          1944+         USING *,R5              base for test data and test routine
00001E38  00001E54                                1945+T47      DC    A(X47)            address of test routine
00001E3C  002F                                    1946+         DC    H'47'             test number
00001E3E  00                                      1947+         DC    XL1'00'
00001E3F  00                                      1948+         DC    HL1'0'            cc
00001E40  07                                      1949+         DC    HL1'7'            cc failed mask
00001E41  E5E3D7E7 40404040                       1950+         DC    CL8'VTPX'         instruction name
00001E4C  00000010                                1951+         DC    A(16)             result length
00001E50  00001E6C                                1952+REA47    DC    A(RE47)           result address
                                                  1953+*                                  INSTRUCTION UNDER TEST ROUTINE
00001E54                                          1954+X47      DS    0F
00001E54  E710 5034 0006                00001E6C  1955+         VL    V1,RE47           get V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001E5A                                           1958+         DS    0H                      E65F VTP - Vector Test Decimal
00001E5A  E6                                       1959+         DC    X'E6'
00001E5B  01                                       1960+         DC    X'01'                   v1
00001E5C  080200                                   1961+         DC    HL3'524800'             0, I3, RXB
00001E5F  5F                                       1962+         DC    X'5F'

00001E60  B98D 0020                                1964+         EPSW  R2,R0             exptract psw
00001E64  5020 8E9C                     0000109C   1965+         ST    R2,CCPSW              to save CC
00001E68  07FB                                     1966+         BR    R11               return
00001E6C                                           1967+RE47     DC    0F
00001E6C                                           1968+         DROP  R5
00001E6C  0FF00000 00000000                        1969          DC    XL16'0FF00000000000000000000000000000C'   V1 source
00001E74  00000000 0000000C
                                                   1970
                                                   1971          VRR_G VTPX,X'8020',0
00001E80                                           1972+         DS    0FD
00001E80                        00001E80           1973+         USING *,R5              base for test data and test routine
00001E80  00001E9C                                 1974+T48      DC    A(X48)            address of test routine
00001E84  0030                                     1975+         DC    H'48'             test number
00001E86  00                                       1976+         DC    XL1'00'
00001E87  00                                       1977+         DC    HL1'0'            cc
00001E88  07                                       1978+         DC    HL1'7'            cc failed mask
00001E89  E5E3D7E7 40404040                        1979+         DC    CL8'VTPX'         instruction name
00001E94  00000010                                 1980+         DC    A(16)             result length
00001E98  00001EB4                                 1981+REA48    DC    A(RE48)           result address
                                                   1982+*                                  INSTRUCTION UNDER TEST ROUTINE
00001E9C                                           1983+X48      DS    0F
00001E9C  E710 5034 0006                00001EB4   1984+         VL    V1,RE48           get V1 source

00001EA2                                           1987+         DS    0H                      E65F VTP - Vector Test Decimal
00001EA2  E6                                       1988+         DC    X'E6'
00001EA3  01                                       1989+         DC    X'01'                   v1
00001EA4  080200                                   1990+         DC    HL3'524800'             0, I3, RXB
00001EA7  5F                                       1991+         DC    X'5F'

00001EA8  B98D 0020                                1993+         EPSW  R2,R0             exptract psw
00001EAC  5020 8E9C                     0000109C   1994+         ST    R2,CCPSW              to save CC
00001EB0  07FB                                     1995+         BR    R11               return
00001EB4                                           1996+RE48     DC    0F
00001EB4                                           1997+         DROP  R5
00001EB4  0FF00000 00000000                        1998          DC    XL16'0FF00000000000000000000000000000D'   V1 source
00001EBC  00000000 0000000D
                                                   1999
                                                   2000          VRR_G VTPX,X'8020',0
00001EC8                                           2001+         DS    0FD
00001EC8                        00001EC8           2002+         USING *,R5              base for test data and test routine
00001EC8  00001EE4                                 2003+T49      DC    A(X49)            address of test routine
00001ECC  0031                                     2004+         DC    H'49'             test number
00001ECE  00                                       2005+         DC    XL1'00'
00001ECF  00                                       2006+         DC    HL1'0'            cc
00001ED0  07                                       2007+         DC    HL1'7'            cc failed mask
00001ED1  E5E3D7E7 40404040                        2008+         DC    CL8'VTPX'         instruction name
00001EDC  00000010                                 2009+         DC    A(16)             result length
00001EE0  00001EFC                                 2010+REA49    DC    A(RE49)           result address
                                                   2011+*                                  INSTRUCTION UNDER TEST ROUTINE
00001EE4                                           2012+X49      DS    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001EE4  E710 5034 0006                00001EFC  2013+         VL    V1,RE49           get V1 source

00001EEA                                          2016+         DS    0H                      E65F VTP - Vector Test Decimal
00001EEA  E6                                      2017+         DC    X'E6'
00001EEB  01                                      2018+         DC    X'01'                   v1
00001EEC  080200                                  2019+         DC    HL3'524800'             0, I3, RXB
00001EEF  5F                                      2020+         DC    X'5F'

00001EF0  B98D 0020                               2022+         EPSW  R2,R0             exptract psw
00001EF4  5020 8E9C                     0000109C  2023+         ST    R2,CCPSW              to save CC
00001EF8  07FB                                    2024+         BR    R11               return
00001EFC                                          2025+RE49     DC    0F
00001EFC                                          2026+         DROP  R5
00001EFC  0FF00000 00000000                       2027          DC    XL16'0FF0000000000000000000000000000E'   V1 source
00001F04  00000000 0000000E
                                                  2028
                                                  2029          VRR_G VTPX,X'8020',0
00001F10                                          2030+         DS    0FD
00001F10                        00001F10          2031+         USING *,R5              base for test data and test routine
00001F10  00001F2C                                2032+T50      DC    A(X50)            address of test routine
00001F14  0032                                    2033+         DC    H'50'             test number
00001F16  00                                      2034+         DC    XL1'00'
00001F17  00                                      2035+         DC    HL1'0'            cc
00001F18  07                                      2036+         DC    HL1'7'            cc failed mask
00001F19  E5E3D7E7 40404040                       2037+         DC    CL8'VTPX'         instruction name
00001F24  00000010                                2038+         DC    A(16)             result length
00001F28  00001F44                                2039+REA50    DC    A(RE50)           result address
                                                  2040+*                                  INSTRUCTION UNDER TEST ROUTINE
00001F2C                                          2041+X50      DS    0F
00001F2C  E710 5034 0006                00001F44  2042+         VL    V1,RE50           get V1 source

00001F32                                          2045+         DS    0H                      E65F VTP - Vector Test Decimal
00001F32  E6                                      2046+         DC    X'E6'
00001F33  01                                      2047+         DC    X'01'                   v1
00001F34  080200                                  2048+         DC    HL3'524800'             0, I3, RXB
00001F37  5F                                      2049+         DC    X'5F'

00001F38  B98D 0020                               2051+         EPSW  R2,R0             exptract psw
00001F3C  5020 8E9C                     0000109C  2052+         ST    R2,CCPSW              to save CC
00001F40  07FB                                    2053+         BR    R11               return
00001F44                                          2054+RE50     DC    0F
00001F44                                          2055+         DROP  R5
00001F44  0FF00000 00000000                       2056          DC    XL16'0FF0000000000000000000000000000F'   V1 source
00001F4C  00000000 0000000F
                                                  2057
                                                  2058          VRR_G VTPX,X'8020',1
00001F58                                          2059+         DS    0FD
00001F58                        00001F58          2060+         USING *,R5              base for test data and test routine
00001F58  00001F74                                2061+T51      DC    A(X51)            address of test routine
00001F5C  0033                                    2062+         DC    H'51'             test number
00001F5E  00                                      2063+         DC    XL1'00'
00001F5F  01                                      2064+         DC    HL1'1'            cc
00001F60  0B                                      2065+         DC    HL1'11'           cc failed mask
00001F61  E5E3D7E7 40404040                       2066+         DC    CL8'VTPX'         instruction name
00001F6C  00000010                                2067+         DC    A(16)             result length
00001F70  00001F8C                                2068+REA51    DC    A(RE51)           result address
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   2069+*                                INSTRUCTION UNDER TEST ROUTINE
00001F74                                           2070+X51      DS    0F
00001F74  E710 5034 0006                00001F8C   2071+         VL    V1,RE51           get V1 source

00001F7A                                           2074+         DS    0H                      E65F VTP - Vector Test Decimal
00001F7A  E6                                       2075+         DC    X'E6'
00001F7B  01                                       2076+         DC    X'01'                   v1
00001F7C  080200                                   2077+         DC    HL3'524800'             0, I3, RXB
00001F7F  5F                                       2078+         DC    X'5F'

00001F80  B98D 0020                                2080+         EPSW  R2,R0             exptract psw
00001F84  5020 8E9C                     0000109C   2081+         ST    R2,CCPSW              to save CC
00001F88  07FB                                     2082+         BR    R11               return
00001F8C                                           2083+RE51     DC    0F
00001F8C                                           2084+         DROP  R5
00001F8C  0FF00000 00000000                        2085          DC    XL16'0FF00000000000000000000000000000'   V1 source
00001F94  00000000 00000000
                                                   2086
                                                   2087          VRR_G VTPX,X'8020',1
00001FA0                                           2088+         DS    0FD
00001FA0                        00001FA0           2089+         USING *,R5              base for test data and test routine
00001FA0  00001FBC                                 2090+T52      DC    A(X52)            address of test routine
00001FA4  0034                                     2091+         DC    H'52'             test number
00001FA6  00                                       2092+         DC    XL1'00'
00001FA7  01                                       2093+         DC    HL1'1'            cc
00001FA8  0B                                       2094+         DC    HL1'11'           cc failed mask
00001FA9  E5E3D7E7 40404040                        2095+         DC    CL8'VTPX'         instruction name
00001FB4  00000010                                 2096+         DC    A(16)             result length
00001FB8  00001FD4                                 2097+REA52    DC    A(RE52)           result address
                                                   2098+*                                INSTRUCTION UNDER TEST ROUTINE
00001FBC                                           2099+X52      DS    0F
00001FBC  E710 5034 0006                00001FD4   2100+         VL    V1,RE52           get V1 source

00001FC2                                           2103+         DS    0H                      E65F VTP - Vector Test Decimal
00001FC2  E6                                       2104+         DC    X'E6'
00001FC3  01                                       2105+         DC    X'01'                   v1
00001FC4  080200                                   2106+         DC    HL3'524800'             0, I3, RXB
00001FC7  5F                                       2107+         DC    X'5F'

00001FC8  B98D 0020                                2109+         EPSW  R2,R0             exptract psw
00001FCC  5020 8E9C                     0000109C   2110+         ST    R2,CCPSW              to save CC
00001FD0  07FB                                     2111+         BR    R11               return
00001FD4                                           2112+RE52     DC    0F
00001FD4                                           2113+         DROP  R5
00001FD4  0FF00000 00000000                        2114          DC    XL16'0FF00000000000000000000000000009'   V1 source
00001FDC  00000000 00000009
                                                   2115
                                                   2116 * BTP=0, STC=1, DC>0 and odd
                                                   2117 *                                sign: A,C E,F valid, 0 digits
                                                   2118          VRR_G VTPX,X'8027',1
00001FE8                                           2119+         DS    0FD
00001FE8                        00001FE8           2120+         USING *,R5              base for test data and test routine
00001FE8  00002004                                 2121+T53      DC    A(X53)            address of test routine
00001FEC  0035                                     2122+         DC    H'53'             test number
00001FEE  00                                       2123+         DC    XL1'00'
00001FEF  01                                       2124+         DC    HL1'1'            cc
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001FF0  0B                                      2125+         DC    HL1'11'           cc failed mask
00001FF1  E5E3D7E7 40404040                       2126+         DC    CL8'VTPX'         instruction name
00001FFC  00000010                                2127+         DC    A(16)             result length
00002000  0000201C                                2128+REA53    DC    A(RE53)           result address
                                                  2129+*                                  INSTRUCTION UNDER TEST ROUTINE
00002004                                          2130+X53      DS    0F
00002004  E710 5034 0006                0000201C  2131+         VL    V1,RE53           get V1 source

0000200A                                          2134+         DS    0H                      E65F VTP - Vector Test Decimal
0000200A  E6                                      2135+         DC    X'E6'
0000200B  01                                      2136+         DC    X'01'                   v1
0000200C  080270                                  2137+         DC    HL3'524912'             0, I3, RXB
0000200F  5F                                      2138+         DC    X'5F'

00002010  B98D 0020                               2140+         EPSW  R2,R0             exptract psw
00002014  5020 8E9C                     0000109C  2141+         ST    R2,CCPSW              to save CC
00002018  07FB                                    2142+         BR    R11               return
0000201C                                          2143+RE53     DC    0F
0000201C                                          2144+         DROP  R5
0000201C  0FF00000 00000000                       2145          DC    XL16'0FF00000000000000000000000000000B'   V1 source
00002024  00000000 0000000B
                                                  2146
                                                  2147          VRR_G VTPX,X'802B',1
00002030                                          2148+         DS    0FD
00002030                        00002030          2149+         USING *,R5              base for test data and test routine
00002030  0000204C                                2150+T54      DC    A(X54)            address of test routine
00002034  0036                                    2151+         DC    H'54'             test number
00002036  00                                      2152+         DC    XL1'00'
00002037  01                                      2153+         DC    HL1'1'            cc
00002038  0B                                      2154+         DC    HL1'11'           cc failed mask
00002039  E5E3D7E7 40404040                       2155+         DC    CL8'VTPX'         instruction name
00002044  00000010                                2156+         DC    A(16)             result length
00002048  00002064                                2157+REA54    DC    A(RE54)           result address
                                                  2158+*                                  INSTRUCTION UNDER TEST ROUTINE
0000204C                                          2159+X54      DS    0F
0000204C  E710 5034 0006                00002064  2160+         VL    V1,RE54           get V1 source

00002052                                          2163+         DS    0H                      E65F VTP - Vector Test Decimal
00002052  E6                                      2164+         DC    X'E6'
00002053  01                                      2165+         DC    X'01'                   v1
00002054  0802B0                                  2166+         DC    HL3'524976'             0, I3, RXB
00002057  5F                                      2167+         DC    X'5F'

00002058  B98D 0020                               2169+         EPSW  R2,R0             exptract psw
0000205C  5020 8E9C                     0000109C  2170+         ST    R2,CCPSW              to save CC
00002060  07FB                                    2171+         BR    R11               return
00002064                                          2172+RE54     DC    0F
00002064                                          2173+         DROP  R5
00002064  0FF00000 00000000                       2174          DC    XL16'0FF00000000000000000000000000000D'   V1 source
0000206C  00000000 0000000D
                                                  2175
                                                  2176          VRR_G VTPX,X'803F',2
00002078                                          2177+         DS    0FD
00002078                        00002078          2178+         USING *,R5              base for test data and test routine
00002078  00002094                                2179+T55      DC    A(X55)            address of test routine
0000207C  0037                                    2180+         DC    H'55'             test number
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000207E  00                                      2181+         DC    XL1'00'
0000207F  02                                      2182+         DC    HL1'2'            cc
00002080  0D                                      2183+         DC    HL1'13'           cc failed mask
00002081  E5E3D7E7 40404040                       2184+         DC    CL8'VTPX'         instruction name
0000208C  00000010                                2185+         DC    A(16)             result length
00002090  000020AC                                2186+REA55    DC    A(RE55)           result address
                                                  2187+*                                  INSTRUCTION UNDER TEST ROUTINE
00002094                                          2188+X55      DS    0F
00002094  E710 5034 0006                000020AC  2189+         VL    V1,RE55           get V1 source

0000209A                                          2192+         DS    0H                      E65F VTP - Vector Test Decimal
0000209A  E6                                      2193+         DC    X'E6'
0000209B  01                                      2194+         DC    X'01'                   v1
0000209C  0803F0                                  2195+         DC    HL3'525296'             0, I3, RXB
0000209F  5F                                      2196+         DC    X'5F'

000020A0  B98D 0020                               2198+         EPSW  R2,R0             exptract psw
000020A4  5020 8E9C                     0000109C  2199+         ST    R2,CCPSW              to save CC
000020A8  07FB                                    2200+         BR    R11               return
000020AC                                          2201+RE55     DC    0F
000020AC                                          2202+         DROP  R5
000020AC  F0000000 00000000                       2203          DC    XL16'F0000000000000000000000000000000C'   V1 source
000020B4  00000000 0000000C
                                                  2204
                                                  2205 *                                  sign: A-F valid, non-0 digits
                                                  2206          VRR_G VTPX,X'8025',0
000020C0                                          2207+         DS    0FD
000020C0                        000020C0          2208+         USING *,R5              base for test data and test routine
000020C0  000020DC                                2209+T56      DC    A(X56)            address of test routine
000020C4  0038                                    2210+         DC    H'56'             test number
000020C6  00                                      2211+         DC    XL1'00'
000020C7  00                                      2212+         DC    HL1'0'            cc
000020C8  07                                      2213+         DC    HL1'7'            cc failed mask
000020C9  E5E3D7E7 40404040                       2214+         DC    CL8'VTPX'         instruction name
000020D4  00000010                                2215+         DC    A(16)             result length
000020D8  000020F4                                2216+REA56    DC    A(RE56)           result address
                                                  2217+*                                  INSTRUCTION UNDER TEST ROUTINE
000020DC                                          2218+X56      DS    0F
000020DC  E710 5034 0006                000020F4  2219+         VL    V1,RE56           get V1 source

000020E2                                          2222+         DS    0H                      E65F VTP - Vector Test Decimal
000020E2  E6                                      2223+         DC    X'E6'
000020E3  01                                      2224+         DC    X'01'                   v1
000020E4  080250                                  2225+         DC    HL3'524880'             0, I3, RXB
000020E7  5F                                      2226+         DC    X'5F'

000020E8  B98D 0020                               2228+         EPSW  R2,R0             exptract psw
000020EC  5020 8E9C                     0000109C  2229+         ST    R2,CCPSW              to save CC
000020F0  07FB                                    2230+         BR    R11               return
000020F4                                          2231+RE56     DC    0F
000020F4                                          2232+         DROP  R5
000020F4  0FF00000 00000000                       2233          DC    XL16'0FF0000000000000000000000000100A'   V1 source
000020FC  00000000 0000100A
                                                  2234
                                                  2235          VRR_G VTPX,X'8027',0
00002108                                          2236+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002108                     00002108              2237+         USING *,R5              base for test data and test routine
00002108  00002124                                 2238+T57      DC    A(X57)            address of test routine
0000210C  0039                                     2239+         DC    H'57'             test number
0000210E  00                                       2240+         DC    XL1'00'
0000210F  00                                       2241+         DC    HL1'0'            cc
00002110  07                                       2242+         DC    HL1'7'            cc failed mask
00002111  E5E3D7E7 40404040                        2243+         DC    CL8'VTPX'         instruction name
0000211C  00000010                                 2244+         DC    A(16)             result length
00002120  0000213C                                 2245+REA57    DC    A(RE57)           result address
                                                   2246+*                                  INSTRUCTION UNDER TEST ROUTINE
00002124                                           2247+X57      DS    0F
00002124  E710 5034 0006                0000213C   2248+         VL    V1,RE57           get V1 source

0000212A                                           2251+         DS    0H                      E65F VTP - Vector Test Decimal
0000212A  E6                                       2252+         DC    X'E6'
0000212B  01                                       2253+         DC    X'01'                   v1
0000212C  080270                                   2254+         DC    HL3'524912'             0, I3, RXB
0000212F  5F                                       2255+         DC    X'5F'

00002130  B98D 0020                                2257+         EPSW  R2,R0             exptract psw
00002134  5020 8E9C                     0000109C   2258+         ST    R2,CCPSW              to save CC
00002138  07FB                                     2259+         BR    R11               return
0000213C                                           2260+RE57     DC    0F
0000213C                                           2261+         DROP  R5
0000213C  0FF00000 00000000                        2262          DC    XL16'0FF0000000000000000000000000100B'   V1 source
00002144  00000000 0000100B
                                                   2263
                                                   2264          VRR_G VTPX,X'8029',0
00002150                                           2265+         DS    0FD
00002150                     00002150              2266+         USING *,R5              base for test data and test routine
00002150  0000216C                                 2267+T58      DC    A(X58)            address of test routine
00002154  003A                                     2268+         DC    H'58'             test number
00002156  00                                       2269+         DC    XL1'00'
00002157  00                                       2270+         DC    HL1'0'            cc
00002158  07                                       2271+         DC    HL1'7'            cc failed mask
00002159  E5E3D7E7 40404040                        2272+         DC    CL8'VTPX'         instruction name
00002164  00000010                                 2273+         DC    A(16)             result length
00002168  00002184                                 2274+REA58    DC    A(RE58)           result address
                                                   2275+*                                  INSTRUCTION UNDER TEST ROUTINE
0000216C                                           2276+X58      DS    0F
0000216C  E710 5034 0006                00002184   2277+         VL    V1,RE58           get V1 source

00002172                                           2280+         DS    0H                      E65F VTP - Vector Test Decimal
00002172  E6                                       2281+         DC    X'E6'
00002173  01                                       2282+         DC    X'01'                   v1
00002174  080290                                   2283+         DC    HL3'524944'             0, I3, RXB
00002177  5F                                       2284+         DC    X'5F'

00002178  B98D 0020                                2286+         EPSW  R2,R0             exptract psw
0000217C  5020 8E9C                     0000109C   2287+         ST    R2,CCPSW              to save CC
00002180  07FB                                     2288+         BR    R11               return
00002184                                           2289+RE58     DC    0F
00002184                                           2290+         DROP  R5
00002184  0FF00000 00000000                        2291          DC    XL16'0FF0000000000000000000000000100C'   V1 source
0000218C  00000000 0000100C
                                                   2292
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   2293          VRR_G VTPX,X'802B',0
00002198                                           2294+         DS    0FD
00002198                     00002198              2295+         USING *,R5              base for test data and test routine
00002198  000021B4                                 2296+T59      DC    A(X59)            address of test routine
0000219C  003B                                     2297+         DC    H'59'             test number
0000219E  00                                       2298+         DC    XL1'00'
0000219F  00                                       2299+         DC    HL1'0'            cc
000021A0  07                                       2300+         DC    HL1'7'            cc failed mask
000021A1  E5E3D7E7 40404040                        2301+         DC    CL8'VTPX'         instruction name
000021AC  00000010                                 2302+         DC    A(16)             result length
000021B0  000021CC                                 2303+REA59    DC    A(RE59)           result address
                                                   2304+*                                  INSTRUCTION UNDER TEST ROUTINE
000021B4                                           2305+X59      DS    0F
000021B4  E710 5034 0006                000021CC   2306+         VL    V1,RE59           get V1 source

000021BA                                           2309+         DS    0H                      E65F VTP - Vector Test Decimal
000021BA  E6                                       2310+         DC    X'E6'
000021BB  01                                       2311+         DC    X'01'                   v1
000021BC  0802B0                                   2312+         DC    HL3'524976'             0, I3, RXB
000021BF  5F                                       2313+         DC    X'5F'

000021C0  B98D 0020                                2315+         EPSW  R2,R0             exptract psw
000021C4  5020 8E9C                     0000109C   2316+         ST    R2,CCPSW              to save CC
000021C8  07FB                                     2317+         BR    R11               return
000021CC                                           2318+RE59     DC    0F
000021CC                                           2319+         DROP  R5
000021CC  0FF00000 00000000                        2320          DC    XL16'0FF000000000000000000000000100D'   V1 source
000021D4  00000000 0000100D
                                                   2321
                                                   2322          VRR_G VTPX,X'802D',0
000021E0                                           2323+         DS    0FD
000021E0                     000021E0              2324+         USING *,R5              base for test data and test routine
000021E0  000021FC                                 2325+T60      DC    A(X60)            address of test routine
000021E4  003C                                     2326+         DC    H'60'             test number
000021E6  00                                       2327+         DC    XL1'00'
000021E7  00                                       2328+         DC    HL1'0'            cc
000021E8  07                                       2329+         DC    HL1'7'            cc failed mask
000021E9  E5E3D7E7 40404040                        2330+         DC    CL8'VTPX'         instruction name
000021F4  00000010                                 2331+         DC    A(16)             result length
000021F8  00002214                                 2332+REA60    DC    A(RE60)           result address
                                                   2333+*                                  INSTRUCTION UNDER TEST ROUTINE
000021FC                                           2334+X60      DS    0F
000021FC  E710 A014 0006                00002214   2335+         VL    V1,RE60           get V1 source

00002202                                           2338+         DS    0H                      E65F VTP - Vector Test Decimal
00002202  E6                                       2339+         DC    X'E6'
00002203  01                                       2340+         DC    X'01'                   v1
00002204  0802D0                                   2341+         DC    HL3'525008'             0, I3, RXB
00002207  5F                                       2342+         DC    X'5F'

00002208  B98D 0020                                2344+         EPSW  R2,R0             exptract psw
0000220C  5020 8E9C                     0000109C   2345+         ST    R2,CCPSW              to save CC
00002210  07FB                                     2346+         BR    R11               return
00002214                                           2347+RE60     DC    0F
00002214                                           2348+         DROP  R5
00002214  0FF00000 00000000                        2349          DC    XL16'0FF000000000000000000000000100E'   V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000221C  00000000 0000100E
                                                   2350
                                                   2351          VRR_G VTPX,X'802F',0
00002228                                           2352+         DS    0FD
00002228                     00002228              2353+         USING *,R5              base for test data and test routine
00002228  00002244                                 2354+T61      DC    A(X61)            address of test routine
0000222C  003D                                     2355+         DC    H'61'             test number
0000222E  00                                       2356+         DC    XL1'00'
0000222F  00                                       2357+         DC    HL1'0'            cc
00002230  07                                       2358+         DC    HL1'7'            cc failed mask
00002231  E5E3D7E7 40404040                        2359+         DC    CL8'VTPX'         instruction name
0000223C  00000010                                 2360+         DC    A(16)             result length
00002240  0000225C                                 2361+REA61    DC    A(RE61)           result address
                                                   2362+*                                  INSTRUCTION UNDER TEST ROUTINE
00002244                                           2363+X61      DS    0F
00002244  E710 5034 0006               0000225C    2364+         VL    V1,RE61           get V1 source

0000224A                                           2367+         DS    0H                      E65F VTP - Vector Test Decimal
0000224A  E6                                       2368+         DC    X'E6'
0000224B  01                                       2369+         DC    X'01'                   v1
0000224C  0802F0                                   2370+         DC    HL3'525040'             0, I3, RXB
0000224F  5F                                       2371+         DC    X'5F'

00002250  B98D 0020                                2373+         EPSW  R2,R0             exptract psw
00002254  5020 8E9C                    0000109C    2374+         ST    R2,CCPSW              to save CC
00002258  07FB                                     2375+         BR    R11               return
0000225C                                           2376+RE61     DC    0F
0000225C                                           2377+         DROP  R5
0000225C  0FF00000 00000000                        2378          DC    XL16'0FF0000000000000000000000100F'   V1 source
00002264  00000000 0000100F
                                                   2379
                                                   2380          VRR_G VTPX,X'802F',1
00002270                                           2381+         DS    0FD
00002270                     00002270              2382+         USING *,R5              base for test data and test routine
00002270  0000228C                                 2383+T62      DC    A(X62)            address of test routine
00002274  003E                                     2384+         DC    H'62'             test number
00002276  00                                       2385+         DC    XL1'00'
00002277  01                                       2386+         DC    HL1'1'            cc
00002278  0B                                       2387+         DC    HL1'11'           cc failed mask
00002279  E5E3D7E7 40404040                        2388+         DC    CL8'VTPX'         instruction name
00002284  00000010                                 2389+         DC    A(16)             result length
00002288  000022A4                                 2390+REA62    DC    A(RE62)           result address
                                                   2391+*                                  INSTRUCTION UNDER TEST ROUTINE
0000228C                                           2392+X62      DS    0F
0000228C  E710 5034 0006               000022A4    2393+         VL    V1,RE62           get V1 source

00002292                                           2396+         DS    0H                      E65F VTP - Vector Test Decimal
00002292  E6                                       2397+         DC    X'E6'
00002293  01                                       2398+         DC    X'01'                   v1
00002294  0802F0                                   2399+         DC    HL3'525040'             0, I3, RXB
00002297  5F                                       2400+         DC    X'5F'

00002298  B98D 0020                                2402+         EPSW  R2,R0             exptract psw
0000229C  5020 8E9C                    0000109C    2403+         ST    R2,CCPSW              to save CC
000022A0  07FB                                     2404+         BR    R11               return
000022A4                                           2405+RE62     DC    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000022A4                                           2406+         DROP  R5
000022A4  0FF00000 00000000                        2407          DC    XL16'0FF00000000000000000000000001000'   V1 source
000022AC  00000000 00001000
                                                   2408
                                                   2409          VRR_G VTPX,X'802F',2
000022B8                                           2410+         DS    0FD
000022B8                      000022B8             2411+         USING *,R5              base for test data and test routine
000022B8  000022D4                                 2412+T63      DC    A(X63)            address of test routine
000022BC  003F                                     2413+         DC    H'63'             test number
000022BE  00                                       2414+         DC    XL1'00'
000022BF  02                                       2415+         DC    HL1'2'            cc
000022C0  0D                                       2416+         DC    HL1'13'           cc failed mask
000022C1  E5E3D7E7 40404040                        2417+         DC    CL8'VTPX'         instruction name
000022CC  00000010                                 2418+         DC    A(16)             result length
000022D0  000022EC                                 2419+REA63    DC    A(RE63)           result address
                                                   2420+*                                  INSTRUCTION UNDER TEST ROUTINE
000022D4                                           2421+X63      DS    0F
000022D4  E710 5034 0006                000022EC   2422+         VL    V1,RE63           get V1 source

000022DA                                           2425+         DS    0H                      E65F VTP - Vector Test Decimal
000022DA  E6                                       2426+         DC    X'E6'
000022DB  01                                       2427+         DC    X'01'                   v1
000022DC  0802F0                                   2428+         DC    HL3'525040'             0, I3, RXB
000022DF  5F                                       2429+         DC    X'5F'

000022E0  B98D 0020                                2431+         EPSW  R2,R0             exptract psw
000022E4  5020 8E9C                     0000109C   2432+         ST    R2,CCPSW                to save CC
000022E8  07FB                                     2433+         BR    R11               return
000022EC                                           2434+RE63     DC    0F
000022EC                                           2435+         DROP  R5
000022EC  0FF00000 00000000                        2436          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000022F4  00000000 0000F00F
                                                   2437
                                                   2438          VRR_G VTPX,X'802F',3
00002300                                           2439+         DS    0FD
00002300                      00002300             2440+         USING *,R5              base for test data and test routine
00002300  0000231C                                 2441+T64      DC    A(X64)            address of test routine
00002304  0040                                     2442+         DC    H'64'             test number
00002306  00                                       2443+         DC    XL1'00'
00002307  03                                       2444+         DC    HL1'3'            cc
00002308  0E                                       2445+         DC    HL1'14'           cc failed mask
00002309  E5E3D7E7 40404040                        2446+         DC    CL8'VTPX'         instruction name
00002314  00000010                                 2447+         DC    A(16)             result length
00002318  00002334                                 2448+REA64    DC    A(RE64)           result address
                                                   2449+*                                  INSTRUCTION UNDER TEST ROUTINE
0000231C                                           2450+X64      DS    0F
0000231C  E710 5034 0006                00002334   2451+         VL    V1,RE64           get V1 source

00002322                                           2454+         DS    0H                      E65F VTP - Vector Test Decimal
00002322  E6                                       2455+         DC    X'E6'
00002323  01                                       2456+         DC    X'01'                   v1
00002324  0802F0                                   2457+         DC    HL3'525040'             0, I3, RXB
00002327  5F                                       2458+         DC    X'5F'

00002328  B98D 0020                                2460+         EPSW  R2,R0             exptract psw
0000232C  5020 8E9C                     0000109C   2461+         ST    R2,CCPSW                to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002330  07FB                                     2462+         BR    R11                 return
00002334                                           2463+RE64     DC    0F
00002334                                           2464+         DROP  R5
00002334  0FF00000 00000000                        2465          DC    XL16'0FF000000000000000000000000F009'   V1 source
0000233C  00000000 0000F009
                                                   2466
                                                   2467          VRR_G VTPX,X'803F',0
00002348                                           2468+         DS    0FD
00002348                      00002348             2469+         USING *,R5                base for test data and test routine
00002348  00002364                                 2470+T65      DC    A(X65)              address of test routine
0000234C  0041                                     2471+         DC    H'65'               test number
0000234E  00                                       2472+         DC    XL1'00'
0000234F  00                                       2473+         DC    HL1'0'              cc
00002350  07                                       2474+         DC    HL1'7'              cc failed mask
00002351  E5E3D7E7 40404040                        2475+         DC    CL8'VTPX'           instruction name
0000235C  00000010                                 2476+         DC    A(16)               result length
00002360  0000237C                                 2477+REA65    DC    A(RE65)             result address
                                                   2478+*                                    INSTRUCTION UNDER TEST ROUTINE
00002364                                           2479+X65      DS    0F
00002364  E710 5034 0006                0000237C   2480+         VL    V1,RE65             get V1 source

0000236A                                           2483+         DS    0H                        E65F VTP - Vector Test Decimal
0000236A  E6                                       2484+         DC    X'E6'
0000236B  01                                       2485+         DC    X'01'                     v1
0000236C  0803F0                                   2486+         DC    HL3'525296'               0, I3, RXB
0000236F  5F                                       2487+         DC    X'5F'

00002370  B98D 0020                                2489+         EPSW  R2,R0               exptract psw
00002374  5020 8E9C                     0000109C   2490+         ST    R2,CCPSW                to save CC
00002378  07FB                                     2491+         BR    R11                 return
0000237C                                           2492+RE65     DC    0F
0000237C                                           2493+         DROP  R5
0000237C  11000000 00000000                        2494          DC    XL16'110000000000000000000000000000B'   V1 source
00002384  00000000 0000000B
                                                   2495
                                                   2496 * BTP=0, STC=1, DC>0 and even
                                                   2497 *                                    sign: A,C E,F valid, 0 digits
                                                   2498          VRR_G VTPX,X'8026',1
00002390                                           2499+         DS    0FD
00002390                      00002390             2500+         USING *,R5                base for test data and test routine
00002390  000023AC                                 2501+T66      DC    A(X66)              address of test routine
00002394  0042                                     2502+         DC    H'66'               test number
00002396  00                                       2503+         DC    XL1'00'
00002397  01                                       2504+         DC    HL1'1'              cc
00002398  0B                                       2505+         DC    HL1'11'             cc failed mask
00002399  E5E3D7E7 40404040                        2506+         DC    CL8'VTPX'           instruction name
000023A4  00000010                                 2507+         DC    A(16)               result length
000023A8  000023C4                                 2508+REA66    DC    A(RE66)             result address
                                                   2509+*                                    INSTRUCTION UNDER TEST ROUTINE
000023AC                                           2510+X66      DS    0F
000023AC  E710 5034 0006                000023C4   2511+         VL    V1,RE66             get V1 source

000023B2                                           2514+         DS    0H                        E65F VTP - Vector Test Decimal
000023B2  E6                                       2515+         DC    X'E6'
000023B3  01                                       2516+         DC    X'01'                     v1
000023B4  080260                                   2517+         DC    HL3'524896'               0, I3, RXB
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000023B7  5F                                       2518+         DC    X'5F'

000023B8  B98D 0020                                2520+         EPSW  R2,R0             exptract psw
000023BC  5020 8E9C                     0000109C   2521+         ST    R2,CCPSW              to save CC
000023C0  07FB                                     2522+         BR    R11               return
000023C4                                           2523+RE66     DC    0F
000023C4                                           2524+         DROP  R5
000023C4  0FF00000 00000000                        2525          DC    XL16'0FF00000000000000000000000000B'   V1 source
000023CC  00000000 0000000B
                                                   2526
                                                   2527          VRR_G VTPX,X'802A',1
000023D8                                           2528+         DS    0FD
000023D8                        000023D8           2529+         USING *,R5              base for test data and test routine
000023D8  000023F4                                 2530+T67      DC    A(X67)            address of test routine
000023DC  0043                                     2531+         DC    H'67'             test number
000023DE  00                                       2532+         DC    XL1'00'
000023DF  01                                       2533+         DC    HL1'1'            cc
000023E0  0B                                       2534+         DC    HL1'11'           cc failed mask
000023E1  E5E3D7E7 40404040                        2535+         DC    CL8'VTPX'         instruction name
000023EC  00000010                                 2536+         DC    A(16)             result length
000023F0  0000240C                                 2537+REA67    DC    A(RE67)           result address
                                                   2538+*                                  INSTRUCTION UNDER TEST ROUTINE
000023F4                                           2539+X67      DS    0F
000023F4  E710 5034 0006                0000240C   2540+         VL    V1,RE67           get V1 source

000023FA                                           2543+         DS    0H                      E65F VTP - Vector Test Decimal
000023FA  E6                                       2544+         DC    X'E6'
000023FB  01                                       2545+         DC    X'01'                   v1
000023FC  0802A0                                   2546+         DC    HL3'524960'             0, I3, RXB
000023FF  5F                                       2547+         DC    X'5F'

00002400  B98D 0020                                2549+         EPSW  R2,R0             exptract psw
00002404  5020 8E9C                     0000109C   2550+         ST    R2,CCPSW              to save CC
00002408  07FB                                     2551+         BR    R11               return
0000240C                                           2552+RE67     DC    0F
0000240C                                           2553+         DROP  R5
0000240C  0FF00000 00000000                        2554          DC    XL16'0FF00000000000000000000000000D'   V1 source
00002414  00000000 0000000D
                                                   2555
                                                   2556          VRR_G VTPX,X'803E',0
00002420                                           2557+         DS    0FD
00002420                        00002420           2558+         USING *,R5              base for test data and test routine
00002420  0000243C                                 2559+T68      DC    A(X68)            address of test routine
00002424  0044                                     2560+         DC    H'68'             test number
00002426  00                                       2561+         DC    XL1'00'
00002427  00                                       2562+         DC    HL1'0'            cc
00002428  07                                       2563+         DC    HL1'7'            cc failed mask
00002429  E5E3D7E7 40404040                        2564+         DC    CL8'VTPX'         instruction name
00002434  00000010                                 2565+         DC    A(16)             result length
00002438  00002454                                 2566+REA68    DC    A(RE68)           result address
                                                   2567+*                                  INSTRUCTION UNDER TEST ROUTINE
0000243C                                           2568+X68      DS    0F
0000243C  E710 5034 0006                00002454   2569+         VL    V1,RE68           get V1 source

00002442                                           2572+         DS    0H                      E65F VTP - Vector Test Decimal
00002442  E6                                       2573+         DC    X'E6'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002443  01                                      2574+         DC    X'01'                   v1
00002444  0803E0                                  2575+         DC    HL3'525280'             0, I3, RXB
00002447  5F                                      2576+         DC    X'5F'

00002448  B98D 0020                               2578+         EPSW  R2,R0             exptract psw
0000244C  5020 8E9C                     0000109C  2579+         ST    R2,CCPSW              to save CC
00002450  07FB                                    2580+         BR    R11               return
00002454                                          2581+RE68     DC    0F
00002454                                          2582+         DROP  R5
00002454  F1000000 00000000                       2583          DC    XL16'F1000000000000000000000000000000E'   V1 source
0000245C  00000000 0000000E
                                                  2584
                                                  2585 *                                  sign: A-F valid, non-0 digits
                                                  2586          VRR_G VTPX,X'8024',0
00002468                                          2587+         DS    0FD
00002468                        00002468          2588+         USING *,R5              base for test data and test routine
00002468  00002484                                2589+T69      DC    A(X69)            address of test routine
0000246C  0045                                    2590+         DC    H'69'             test number
0000246E  00                                      2591+         DC    XL1'00'
0000246F  00                                      2592+         DC    HL1'0'            cc
00002470  07                                      2593+         DC    HL1'7'            cc failed mask
00002471  E5E3D7E7 40404040                       2594+         DC    CL8'VTPX'         instruction name
0000247C  00000010                                2595+         DC    A(16)             result length
00002480  0000249C                                2596+REA69    DC    A(RE69)           result address
                                                  2597+*                                  INSTRUCTION UNDER TEST ROUTINE
00002484                                          2598+X69      DS    0F
00002484  E710 5034 0006                0000249C  2599+         VL    V1,RE69           get V1 source

0000248A                                          2602+         DS    0H                      E65F VTP - Vector Test Decimal
0000248A  E6                                      2603+         DC    X'E6'
0000248B  01                                      2604+         DC    X'01'                   v1
0000248C  080240                                  2605+         DC    HL3'524864'             0, I3, RXB
0000248F  5F                                      2606+         DC    X'5F'

00002490  B98D 0020                               2608+         EPSW  R2,R0             exptract psw
00002494  5020 8E9C                     0000109C  2609+         ST    R2,CCPSW              to save CC
00002498  07FB                                    2610+         BR    R11               return
0000249C                                          2611+RE69     DC    0F
0000249C                                          2612+         DROP  R5
0000249C  0FF00000 00000000                       2613          DC    XL16'0FF00000000000000000000000100A'   V1 source
000024A4  00000000 0000100A
                                                  2614
                                                  2615          VRR_G VTPX,X'8026',0
000024B0                                          2616+         DS    0FD
000024B0                        000024B0          2617+         USING *,R5              base for test data and test routine
000024B0  000024CC                                2618+T70      DC    A(X70)            address of test routine
000024B4  0046                                    2619+         DC    H'70'             test number
000024B6  00                                      2620+         DC    XL1'00'
000024B7  00                                      2621+         DC    HL1'0'            cc
000024B8  07                                      2622+         DC    HL1'7'            cc failed mask
000024B9  E5E3D7E7 40404040                       2623+         DC    CL8'VTPX'         instruction name
000024C4  00000010                                2624+         DC    A(16)             result length
000024C8  000024E4                                2625+REA70    DC    A(RE70)           result address
                                                  2626+*                                  INSTRUCTION UNDER TEST ROUTINE
000024CC                                          2627+X70      DS    0F
000024CC  E710 5034 0006                000024E4  2628+         VL    V1,RE70           get V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000024D2                                           2631+         DS    0H                      E65F VTP - Vector Test Decimal
000024D2  E6                                       2632+         DC    X'E6'
000024D3  01                                       2633+         DC    X'01'                   v1
000024D4  080260                                   2634+         DC    HL3'524896'             0, I3, RXB
000024D7  5F                                       2635+         DC    X'5F'

000024D8  B98D 0020                                2637+         EPSW  R2,R0             exptract psw
000024DC  5020 8E9C                     0000109C   2638+         ST    R2,CCPSW              to save CC
000024E0  07FB                                     2639+         BR    R11               return
000024E4                                           2640+RE70     DC    0F
000024E4                                           2641+         DROP  R5
000024E4  0FF00000 00000000                        2642          DC    XL16'0FF00000000000000000000000100B'   V1 source
000024EC  00000000 0000100B
                                                   2643
                                                   2644          VRR_G VTPX,X'8028',0
000024F8                                           2645+         DS    0FD
000024F8                        000024F8           2646+         USING *,R5              base for test data and test routine
000024F8  00002514                                 2647+T71      DC    A(X71)            address of test routine
000024FC  0047                                     2648+         DC    H'71'             test number
000024FE  00                                       2649+         DC    XL1'00'
000024FF  00                                       2650+         DC    HL1'0'            cc
00002500  07                                       2651+         DC    HL1'7'            cc failed mask
00002501  E5E3D7E7 40404040                        2652+         DC    CL8'VTPX'         instruction name
0000250C  00000010                                 2653+         DC    A(16)             result length
00002510  0000252C                                 2654+REA71    DC    A(RE71)           result address
                                                   2655+*                                  INSTRUCTION UNDER TEST ROUTINE
00002514                                           2656+X71      DS    0F
00002514  E710 5034 0006                0000252C   2657+         VL    V1,RE71           get V1 source

0000251A                                           2660+         DS    0H                      E65F VTP - Vector Test Decimal
0000251A  E6                                       2661+         DC    X'E6'
0000251B  01                                       2662+         DC    X'01'                   v1
0000251C  080280                                   2663+         DC    HL3'524928'             0, I3, RXB
0000251F  5F                                       2664+         DC    X'5F'

00002520  B98D 0020                                2666+         EPSW  R2,R0             exptract psw
00002524  5020 8E9C                     0000109C   2667+         ST    R2,CCPSW              to save CC
00002528  07FB                                     2668+         BR    R11               return
0000252C                                           2669+RE71     DC    0F
0000252C                                           2670+         DROP  R5
0000252C  0FF00000 00000000                        2671          DC    XL16'0FF00000000000000000000000100C'   V1 source
00002534  00000000 0000100C
                                                   2672
                                                   2673          VRR_G VTPX,X'802A',0
00002540                                           2674+         DS    0FD
00002540                        00002540           2675+         USING *,R5              base for test data and test routine
00002540  0000255C                                 2676+T72      DC    A(X72)            address of test routine
00002544  0048                                     2677+         DC    H'72'             test number
00002546  00                                       2678+         DC    XL1'00'
00002547  00                                       2679+         DC    HL1'0'            cc
00002548  07                                       2680+         DC    HL1'7'            cc failed mask
00002549  E5E3D7E7 40404040                        2681+         DC    CL8'VTPX'         instruction name
00002554  00000010                                 2682+         DC    A(16)             result length
00002558  00002574                                 2683+REA72    DC    A(RE72)           result address
                                                   2684+*                                  INSTRUCTION UNDER TEST ROUTINE
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000255C                                           2685+X72      DS    0F
0000255C  E710 5034 0006                00002574   2686+         VL    V1,RE72           get V1 source

00002562                                           2689+         DS    0H                      E65F VTP - Vector Test Decimal
00002562  E6                                       2690+         DC    X'E6'
00002563  01                                       2691+         DC    X'01'                   v1
00002564  0802A0                                   2692+         DC    HL3'524960'             0, I3, RXB
00002567  5F                                       2693+         DC    X'5F'

00002568  B98D 0020                                2695+         EPSW  R2,R0             exptract psw
0000256C  5020 8E9C                     0000109C   2696+         ST    R2,CCPSW              to save CC
00002570  07FB                                     2697+         BR    R11               return
00002574                                           2698+RE72     DC    0F
00002574                                           2699+         DROP  R5
00002574  0FF00000 00000000                        2700          DC    XL16'0FF00000000000000000000000100D'   V1 source
0000257C  00000000 0000100D
                                                   2701
                                                   2702          VRR_G VTPX,X'802C',0
00002588                                           2703+         DS    0FD
00002588                        00002588           2704+         USING *,R5              base for test data and test routine
00002588  000025A4                                 2705+T73      DC    A(X73)            address of test routine
0000258C  0049                                     2706+         DC    H'73'             test number
0000258E  00                                       2707+         DC    XL1'00'
0000258F  00                                       2708+         DC    HL1'0'            cc
00002590  07                                       2709+         DC    HL1'7'            cc failed mask
00002591  E5E3D7E7 40404040                        2710+         DC    CL8'VTPX'         instruction name
0000259C  00000010                                 2711+         DC    A(16)             result length
000025A0  000025BC                                 2712+REA73    DC    A(RE73)           result address
                                                   2713+*                                  INSTRUCTION UNDER TEST ROUTINE
000025A4                                           2714+X73      DS    0F
000025A4  E710 5034 0006                000025BC   2715+         VL    V1,RE73           get V1 source

000025AA                                           2718+         DS    0H                      E65F VTP - Vector Test Decimal
000025AA  E6                                       2719+         DC    X'E6'
000025AB  01                                       2720+         DC    X'01'                   v1
000025AC  0802C0                                   2721+         DC    HL3'524992'             0, I3, RXB
000025AF  5F                                       2722+         DC    X'5F'

000025B0  B98D 0020                                2724+         EPSW  R2,R0             exptract psw
000025B4  5020 8E9C                     0000109C   2725+         ST    R2,CCPSW              to save CC
000025B8  07FB                                     2726+         BR    R11               return
000025BC                                           2727+RE73     DC    0F
000025BC                                           2728+         DROP  R5
000025BC  0FF00000 00000000                        2729          DC    XL16'0FF00000000000000000000000100E'   V1 source
000025C4  00000000 0000100E
                                                   2730
                                                   2731          VRR_G VTPX,X'802E',0
000025D0                                           2732+         DS    0FD
000025D0                        000025D0           2733+         USING *,R5              base for test data and test routine
000025D0  000025EC                                 2734+T74      DC    A(X74)            address of test routine
000025D4  004A                                     2735+         DC    H'74'             test number
000025D6  00                                       2736+         DC    XL1'00'
000025D7  00                                       2737+         DC    HL1'0'            cc
000025D8  07                                       2738+         DC    HL1'7'            cc failed mask
000025D9  E5E3D7E7 40404040                        2739+         DC    CL8'VTPX'         instruction name
000025E4  00000010                                 2740+         DC    A(16)             result length
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000025E8  00002604                                 2741+REA74    DC    A(RE74)           result address
                                                   2742+*                                  INSTRUCTION UNDER TEST ROUTINE
000025EC                                           2743+X74      DS    0F
000025EC  E710 5034 0006                00002604   2744+         VL    V1,RE74           get V1 source

000025F2                                           2747+         DS    0H                      E65F VTP - Vector Test Decimal
000025F2  E6                                       2748+         DC    X'E6'
000025F3  01                                       2749+         DC    X'01'                   v1
000025F4  0802E0                                   2750+         DC    HL3'525024'             0, I3, RXB
000025F7  5F                                       2751+         DC    X'5F'

000025F8  B98D 0020                                2753+         EPSW  R2,R0             exptract psw
000025FC  5020 8E9C                     0000109C   2754+         ST    R2,CCPSW                to save CC
00002600  07FB                                     2755+         BR    R11               return
00002604                                           2756+RE74     DC    0F
00002604                                           2757+         DROP  R5
00002604  0FF00000 00000000                        2758          DC    XL16'0FF00000000000000000000000100F'   V1 source
0000260C  00000000 0000100F
                                                   2759
                                                   2760          VRR_G VTPX,X'802E',1
00002618                                           2761+         DS    0FD
00002618                        00002618           2762+         USING *,R5              base for test data and test routine
00002618  00002634                                 2763+T75      DC    A(X75)            address of test routine
0000261C  004B                                     2764+         DC    H'75'             test number
0000261E  00                                       2765+         DC    XL1'00'
0000261F  01                                       2766+         DC    HL1'1'            cc
00002620  0B                                       2767+         DC    HL1'11'           cc failed mask
00002621  E5E3D7E7 40404040                        2768+         DC    CL8'VTPX'         instruction name
0000262C  00000010                                 2769+         DC    A(16)             result length
00002630  0000264C                                 2770+REA75    DC    A(RE75)           result address
                                                   2771+*                                  INSTRUCTION UNDER TEST ROUTINE
00002634                                           2772+X75      DS    0F
00002634  E710 5034 0006                0000264C   2773+         VL    V1,RE75           get V1 source

0000263A                                           2776+         DS    0H                      E65F VTP - Vector Test Decimal
0000263A  E6                                       2777+         DC    X'E6'
0000263B  01                                       2778+         DC    X'01'                   v1
0000263C  0802E0                                   2779+         DC    HL3'525024'             0, I3, RXB
0000263F  5F                                       2780+         DC    X'5F'

00002640  B98D 0020                                2782+         EPSW  R2,R0             exptract psw
00002644  5020 8E9C                     0000109C   2783+         ST    R2,CCPSW                to save CC
00002648  07FB                                     2784+         BR    R11               return
0000264C                                           2785+RE75     DC    0F
0000264C                                           2786+         DROP  R5
0000264C  0FF00000 00000000                        2787          DC    XL16'0FF00000000000000000000000001000'   V1 source
00002654  00000000 00001000
                                                   2788
                                                   2789          VRR_G VTPX,X'802E',2
00002660                                           2790+         DS    0FD
00002660                        00002660           2791+         USING *,R5              base for test data and test routine
00002660  0000267C                                 2792+T76      DC    A(X76)            address of test routine
00002664  004C                                     2793+         DC    H'76'             test number
00002666  00                                       2794+         DC    XL1'00'
00002667  02                                       2795+         DC    HL1'2'            cc
00002668  0D                                       2796+         DC    HL1'13'           cc failed mask
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002669  E5E3D7E7 40404040                        2797+         DC    CL8'VTPX'         instruction name
00002674  00000010                                 2798+         DC    A(16)             result length
00002678  00002694                                 2799+REA76    DC    A(RE76)           result address
                                                   2800+*                                  INSTRUCTION UNDER TEST ROUTINE
0000267C                                           2801+X76      DS    0F
0000267C  E710 5034 0006                00002694   2802+         VL    V1,RE76           get V1 source

00002682                                           2805+         DS    0H                      E65F VTP - Vector Test Decimal
00002682  E6                                       2806+         DC    X'E6'
00002683  01                                       2807+         DC    X'01'                   v1
00002684  0802E0                                   2808+         DC    HL3'525024'             0, I3, RXB
00002687  5F                                       2809+         DC    X'5F'

00002688  B98D 0020                                2811+         EPSW  R2,R0             exptract psw
0000268C  5020 8E9C                     0000109C   2812+         ST    R2,CCPSW              to save CC
00002690  07FB                                     2813+         BR    R11               return
00002694                                           2814+RE76     DC    0F
00002694                                           2815+         DROP  R5
00002694  0FF00000 00000000                        2816          DC    XL16'0FF00000000000000000000000F00F'   V1 source
0000269C  00000000 0000F00F
                                                   2817
                                                   2818          VRR_G VTPX,X'802E',3
000026A8                                           2819+         DS    0FD
000026A8                        000026A8           2820+         USING *,R5              base for test data and test routine
000026A8  000026C4                                 2821+T77      DC    A(X77)            address of test routine
000026AC  004D                                     2822+         DC    H'77'             test number
000026AE  00                                       2823+         DC    XL1'00'
000026AF  03                                       2824+         DC    HL1'3'            cc
000026B0  0E                                       2825+         DC    HL1'14'           cc failed mask
000026B1  E5E3D7E7 40404040                        2826+         DC    CL8'VTPX'         instruction name
000026BC  00000010                                 2827+         DC    A(16)             result length
000026C0  000026DC                                 2828+REA77    DC    A(RE77)           result address
                                                   2829+*                                  INSTRUCTION UNDER TEST ROUTINE
000026C4                                           2830+X77      DS    0F
000026C4  E710 5034 0006                000026DC   2831+         VL    V1,RE77           get V1 source

000026CA                                           2834+         DS    0H                      E65F VTP - Vector Test Decimal
000026CA  E6                                       2835+         DC    X'E6'
000026CB  01                                       2836+         DC    X'01'                   v1
000026CC  0802E0                                   2837+         DC    HL3'525024'             0, I3, RXB
000026CF  5F                                       2838+         DC    X'5F'

000026D0  B98D 0020                                2840+         EPSW  R2,R0             exptract psw
000026D4  5020 8E9C                     0000109C   2841+         ST    R2,CCPSW              to save CC
000026D8  07FB                                     2842+         BR    R11               return
000026DC                                           2843+RE77     DC    0F
000026DC                                           2844+         DROP  R5
000026DC  0FF00000 00000000                        2845          DC    XL16'0FF00000000000000000000000F009'   V1 source
000026E4  00000000 0000F009
                                                   2846
                                                   2847          VRR_G VTPX,X'803E',1
000026F0                                           2848+         DS    0FD
000026F0                        000026F0           2849+         USING *,R5              base for test data and test routine
000026F0  0000270C                                 2850+T78      DC    A(X78)            address of test routine
000026F4  004E                                     2851+         DC    H'78'             test number
000026F6  00                                       2852+         DC    XL1'00'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000026F7  01                                       2853+         DC    HL1'1'            cc
000026F8  0B                                       2854+         DC    HL1'11'           cc failed mask
000026F9  E5E3D7E7 40404040                        2855+         DC    CL8'VTPX'         instruction name
00002704  00000010                                 2856+         DC    A(16)             result length
00002708  00002724                                 2857+REA78    DC    A(RE78)           result address
                                                   2858+*                                  INSTRUCTION UNDER TEST ROUTINE
0000270C                                           2859+X78      DS    0F
0000270C  E710 5034 0006                00002724   2860+         VL    V1,RE78           get V1 source

00002712                                           2863+         DS    0H                      E65F VTP - Vector Test Decimal
00002712  E6                                       2864+         DC    X'E6'
00002713  01                                       2865+         DC    X'01'                   v1
00002714  0803E0                                   2866+         DC    HL3'525280'             0, I3, RXB
00002717  5F                                       2867+         DC    X'5F'

00002718  B98D 0020                                2869+         EPSW  R2,R0             exptract psw
0000271C  5020 8E9C                     0000109C   2870+         ST    R2,CCPSW              to save CC
00002720  07FB                                     2871+         BR    R11               return
00002724                                           2872+RE78     DC    0F
00002724                                           2873+         DROP  R5
00002724  10000000 00000000                        2874          DC    XL16'10000000000000000000000000000000B'   V1 source
0000272C  00000000 0000000B
                                                   2875
                                                   2876 * BTP=1, STC=1, DC>0 and even
                                                   2877 *                                  sign: A,C E,F valid, 0 digits
                                                   2878          VRR_G VTPX,X'C026',1
00002738                                           2879+         DS    0FD
00002738                        00002738           2880+         USING *,R5              base for test data and test routine
00002738  00002754                                 2881+T79      DC    A(X79)            address of test routine
0000273C  004F                                     2882+         DC    H'79'             test number
0000273E  00                                       2883+         DC    XL1'00'
0000273F  01                                       2884+         DC    HL1'1'            cc
00002740  0B                                       2885+         DC    HL1'11'           cc failed mask
00002741  E5E3D7E7 40404040                        2886+         DC    CL8'VTPX'         instruction name
0000274C  00000010                                 2887+         DC    A(16)             result length
00002750  0000276C                                 2888+REA79    DC    A(RE79)           result address
                                                   2889+*                                  INSTRUCTION UNDER TEST ROUTINE
00002754                                           2890+X79      DS    0F
00002754  E710 5034 0006                0000276C   2891+         VL    V1,RE79           get V1 source

0000275A                                           2894+         DS    0H                      E65F VTP - Vector Test Decimal
0000275A  E6                                       2895+         DC    X'E6'
0000275B  01                                       2896+         DC    X'01'                   v1
0000275C  0C0260                                   2897+         DC    HL3'787040'             0, I3, RXB
0000275F  5F                                       2898+         DC    X'5F'

00002760  B98D 0020                                2900+         EPSW  R2,R0             exptract psw
00002764  5020 8E9C                     0000109C   2901+         ST    R2,CCPSW              to save CC
00002768  07FB                                     2902+         BR    R11               return
0000276C                                           2903+RE79     DC    0F
0000276C                                           2904+         DROP  R5
0000276C  0FF00000 00000000                        2905          DC    XL16'0FF00000000000000000000000000000B'   V1 source
00002774  00000000 0000000B
                                                   2906
                                                   2907          VRR_G VTPX,X'C02A',1
00002780                                           2908+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002780                     00002780              2909+         USING *,R5              base for test data and test routine
00002780  0000279C                                 2910+T80      DC    A(X80)            address of test routine
00002784  0050                                     2911+         DC    H'80'             test number
00002786  00                                       2912+         DC    XL1'00'
00002787  01                                       2913+         DC    HL1'1'            cc
00002788  0B                                       2914+         DC    HL1'11'           cc failed mask
00002789  E5E3D7E7 40404040                        2915+         DC    CL8'VTPX'         instruction name
00002794  00000010                                 2916+         DC    A(16)             result length
00002798  000027B4                                 2917+REA80    DC    A(RE80)           result address
                                                   2918+*                                  INSTRUCTION UNDER TEST ROUTINE
0000279C                                           2919+X80      DS    0F
0000279C  E710 5034 0006                000027B4   2920+         VL    V1,RE80           get V1 source

000027A2                                           2923+         DS    0H                      E65F VTP - Vector Test Decimal
000027A2  E6                                       2924+         DC    X'E6'
000027A3  01                                       2925+         DC    X'01'                   v1
000027A4  0C02A0                                   2926+         DC    HL3'787104'             0, I3, RXB
000027A7  5F                                       2927+         DC    X'5F'

000027A8  B98D 0020                                2929+         EPSW  R2,R0             exptract psw
000027AC  5020 8E9C                     0000109C   2930+         ST    R2,CCPSW              to save CC
000027B0  07FB                                     2931+         BR    R11               return
000027B4                                           2932+RE80     DC    0F
000027B4                                           2933+         DROP  R5
000027B4  0FF00000 00000000                        2934          DC    XL16'0FF000000000000000000000000000D'   V1 source
000027BC  00000000 0000000D
                                                   2935
                                                   2936          VRR_G VTPX,X'C03E',2
000027C8                                           2937+         DS    0FD
000027C8                     000027C8              2938+         USING *,R5              base for test data and test routine
000027C8  000027E4                                 2939+T81      DC    A(X81)            address of test routine
000027CC  0051                                     2940+         DC    H'81'             test number
000027CE  00                                       2941+         DC    XL1'00'
000027CF  02                                       2942+         DC    HL1'2'            cc
000027D0  0D                                       2943+         DC    HL1'13'           cc failed mask
000027D1  E5E3D7E7 40404040                        2944+         DC    CL8'VTPX'         instruction name
000027DC  00000010                                 2945+         DC    A(16)             result length
000027E0  000027FC                                 2946+REA81    DC    A(RE81)           result address
                                                   2947+*                                  INSTRUCTION UNDER TEST ROUTINE
000027E4                                           2948+X81      DS    0F
000027E4  E710 5034 0006                000027FC   2949+         VL    V1,RE81           get V1 source

000027EA                                           2952+         DS    0H                      E65F VTP - Vector Test Decimal
000027EA  E6                                       2953+         DC    X'E6'
000027EB  01                                       2954+         DC    X'01'                   v1
000027EC  0C03E0                                   2955+         DC    HL3'787424'             0, I3, RXB
000027EF  5F                                       2956+         DC    X'5F'

000027F0  B98D 0020                                2958+         EPSW  R2,R0             exptract psw
000027F4  5020 8E9C                     0000109C   2959+         ST    R2,CCPSW              to save CC
000027F8  07FB                                     2960+         BR    R11               return
000027FC                                           2961+RE81     DC    0F
000027FC                                           2962+         DROP  R5
000027FC  F0000000 00000000                        2963          DC    XL16'F000000000000000000000000000000C'   V1 source
00002804  00000000 0000000C
                                                   2964
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   2965 *                                   sign: A-F valid, non-0 digits
                                                   2966          VRR_G VTPX,X'C024',0
00002810                                           2967+         DS    0FD
00002810                       00002810            2968+         USING *,R5               base for test data and test routine
00002810  0000282C                                 2969+T82      DC    A(X82)             address of test routine
00002814  0052                                     2970+         DC    H'82'              test number
00002816  00                                       2971+         DC    XL1'00'
00002817  00                                       2972+         DC    HL1'0'             cc
00002818  07                                       2973+         DC    HL1'7'             cc failed mask
00002819  E5E3D7E7 40404040                        2974+         DC    CL8'VTPX'          instruction name
00002824  00000010                                 2975+         DC    A(16)              result length
00002828  00002844                                 2976+REA82    DC    A(RE82)            result address
                                                   2977+*                                   INSTRUCTION UNDER TEST ROUTINE
0000282C                                           2978+X82      DS    0F
0000282C  E710 5034 0006                00002844   2979+         VL    V1,RE82            get V1 source

00002832                                           2982+         DS    0H                       E65F VTP - Vector Test Decimal
00002832  E6                                       2983+         DC    X'E6'
00002833  01                                       2984+         DC    X'01'                    v1
00002834  0C0240                                   2985+         DC    HL3'787008'              0, I3, RXB
00002837  5F                                       2986+         DC    X'5F'

00002838  B98D 0020                                2988+         EPSW  R2,R0              exptract psw
0000283C  5020 8E9C                     0000109C   2989+         ST    R2,CCPSW               to save CC
00002840  07FB                                     2990+         BR    R11                return
00002844                                           2991+RE82     DC    0F
00002844                                           2992+         DROP  R5
00002844  0FF00000 00000000                        2993          DC    XL16'0FF0000000000000000000000100A'   V1 source
0000284C  00000000 0000100A
                                                   2994
                                                   2995          VRR_G VTPX,X'C026',0
00002858                                           2996+         DS    0FD
00002858                       00002858            2997+         USING *,R5               base for test data and test routine
00002858  00002874                                 2998+T83      DC    A(X83)             address of test routine
0000285C  0053                                     2999+         DC    H'83'              test number
0000285E  00                                       3000+         DC    XL1'00'
0000285F  00                                       3001+         DC    HL1'0'             cc
00002860  07                                       3002+         DC    HL1'7'             cc failed mask
00002861  E5E3D7E7 40404040                        3003+         DC    CL8'VTPX'          instruction name
0000286C  00000010                                 3004+         DC    A(16)              result length
00002870  0000288C                                 3005+REA83    DC    A(RE83)            result address
                                                   3006+*                                   INSTRUCTION UNDER TEST ROUTINE
00002874                                           3007+X83      DS    0F
00002874  E710 5034 0006                0000288C   3008+         VL    V1,RE83            get V1 source

0000287A                                           3011+         DS    0H                       E65F VTP - Vector Test Decimal
0000287A  E6                                       3012+         DC    X'E6'
0000287B  01                                       3013+         DC    X'01'                    v1
0000287C  0C0260                                   3014+         DC    HL3'787040'              0, I3, RXB
0000287F  5F                                       3015+         DC    X'5F'

00002880  B98D 0020                                3017+         EPSW  R2,R0              exptract psw
00002884  5020 8E9C                     0000109C   3018+         ST    R2,CCPSW               to save CC
00002888  07FB                                     3019+         BR    R11                return
0000288C                                           3020+RE83     DC    0F
0000288C                                           3021+         DROP  R5
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000288C  0FF00000 00000000                        3022          DC    XL16'0FF00000000000000000000000100B'   V1 source
00002894  00000000 0000100B
                                                   3023
                                                   3024          VRR_G VTPX,X'C028',0
000028A0                                           3025+         DS    0FD
000028A0                     000028A0              3026+         USING *,R5               base for test data and test routine
000028A0  000028BC                                 3027+T84      DC    A(X84)             address of test routine
000028A4  0054                                     3028+         DC    H'84'              test number
000028A6  00                                       3029+         DC    XL1'00'
000028A7  00                                       3030+         DC    HL1'0'             cc
000028A8  07                                       3031+         DC    HL1'7'             cc failed mask
000028A9  E5E3D7E7 40404040                        3032+         DC    CL8'VTPX'          instruction name
000028B4  00000010                                 3033+         DC    A(16)              result length
000028B8  000028D4                                 3034+REA84    DC    A(RE84)            result address
                                                   3035+*                                   INSTRUCTION UNDER TEST ROUTINE
000028BC                                           3036+X84      DS    0F
000028BC  E710 5034 0006                000028D4   3037+         VL    V1,RE84            get V1 source

000028C2                                           3040+         DS    0H                       E65F VTP - Vector Test Decimal
000028C2  E6                                       3041+         DC    X'E6'
000028C3  01                                       3042+         DC    X'01'                    v1
000028C4  0C0280                                   3043+         DC    HL3'787072'              0, I3, RXB
000028C7  5F                                       3044+         DC    X'5F'

000028C8  B98D 0020                                3046+         EPSW  R2,R0              exptract psw
000028CC  5020 8E9C                     0000109C   3047+         ST    R2,CCPSW               to save CC
000028D0  07FB                                     3048+         BR    R11                return
000028D4                                           3049+RE84     DC    0F
000028D4                                           3050+         DROP  R5
000028D4  0FF00000 00000000                        3051          DC    XL16'0FF00000000000000000000000100C'   V1 source
000028DC  00000000 0000100C
                                                   3052
                                                   3053          VRR_G VTPX,X'C02A',0
000028E8                                           3054+         DS    0FD
000028E8                     000028E8              3055+         USING *,R5               base for test data and test routine
000028E8  00002904                                 3056+T85      DC    A(X85)             address of test routine
000028EC  0055                                     3057+         DC    H'85'              test number
000028EE  00                                       3058+         DC    XL1'00'
000028EF  00                                       3059+         DC    HL1'0'             cc
000028F0  07                                       3060+         DC    HL1'7'             cc failed mask
000028F1  E5E3D7E7 40404040                        3061+         DC    CL8'VTPX'          instruction name
000028FC  00000010                                 3062+         DC    A(16)              result length
00002900  0000291C                                 3063+REA85    DC    A(RE85)            result address
                                                   3064+*                                   INSTRUCTION UNDER TEST ROUTINE
00002904                                           3065+X85      DS    0F
00002904  E710 5034 0006                0000291C   3066+         VL    V1,RE85            get V1 source

0000290A                                           3069+         DS    0H                       E65F VTP - Vector Test Decimal
0000290A  E6                                       3070+         DC    X'E6'
0000290B  01                                       3071+         DC    X'01'                    v1
0000290C  0C02A0                                   3072+         DC    HL3'787104'              0, I3, RXB
0000290F  5F                                       3073+         DC    X'5F'

00002910  B98D 0020                                3075+         EPSW  R2,R0              exptract psw
00002914  5020 8E9C                     0000109C   3076+         ST    R2,CCPSW               to save CC
00002918  07FB                                     3077+         BR    R11                return
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000291C                                           3078+RE85     DC    0F
0000291C                                           3079+         DROP  R5
0000291C  0FF00000 00000000                        3080          DC    XL16'0FF000000000000000000000000100D'   V1 source
00002924  00000000 0000100D
                                                   3081
                                                   3082          VRR_G VTPX,X'C02C',0
00002930                                           3083+         DS    0FD
00002930                      00002930             3084+         USING *,R5              base for test data and test routine
00002930  0000294C                                 3085+T86      DC    A(X86)            address of test routine
00002934  0056                                     3086+         DC    H'86'             test number
00002936  00                                       3087+         DC    XL1'00'
00002937  00                                       3088+         DC    HL1'0'            cc
00002938  07                                       3089+         DC    HL1'7'            cc failed mask
00002939  E5E3D7E7 40404040                        3090+         DC    CL8'VTPX'         instruction name
00002944  00000010                                 3091+         DC    A(16)             result length
00002948  00002964                                 3092+REA86    DC    A(RE86)           result address
                                                   3093+*                                  INSTRUCTION UNDER TEST ROUTINE
0000294C                                           3094+X86      DS    0F
0000294C  E710 5034 0006                00002964   3095+         VL    V1,RE86           get V1 source

00002952                                           3098+         DS    0H                      E65F VTP - Vector Test Decimal
00002952  E6                                       3099+         DC    X'E6'
00002953  01                                       3100+         DC    X'01'                   v1
00002954  0C02C0                                   3101+         DC    HL3'787136'             0, I3, RXB
00002957  5F                                       3102+         DC    X'5F'

00002958  B98D 0020                                3104+         EPSW  R2,R0             exptract psw
0000295C  5020 8E9C                     0000109C   3105+         ST    R2,CCPSW                to save CC
00002960  07FB                                     3106+         BR    R11               return
00002964                                           3107+RE86     DC    0F
00002964                                           3108+         DROP  R5
00002964  0FF00000 00000000                        3109          DC    XL16'0FF000000000000000000000000100E'   V1 source
0000296C  00000000 0000100E
                                                   3110
                                                   3111          VRR_G VTPX,X'C024',0
00002978                                           3112+         DS    0FD
00002978                      00002978             3113+         USING *,R5              base for test data and test routine
00002978  00002994                                 3114+T87      DC    A(X87)            address of test routine
0000297C  0057                                     3115+         DC    H'87'             test number
0000297E  00                                       3116+         DC    XL1'00'
0000297F  00                                       3117+         DC    HL1'0'            cc
00002980  07                                       3118+         DC    HL1'7'            cc failed mask
00002981  E5E3D7E7 40404040                        3119+         DC    CL8'VTPX'         instruction name
0000298C  00000010                                 3120+         DC    A(16)             result length
00002990  000029AC                                 3121+REA87    DC    A(RE87)           result address
                                                   3122+*                                  INSTRUCTION UNDER TEST ROUTINE
00002994                                           3123+X87      DS    0F
00002994  E710 5034 0006                000029AC   3124+         VL    V1,RE87           get V1 source

0000299A                                           3127+         DS    0H                      E65F VTP - Vector Test Decimal
0000299A  E6                                       3128+         DC    X'E6'
0000299B  01                                       3129+         DC    X'01'                   v1
0000299C  0C0240                                   3130+         DC    HL3'787008'             0, I3, RXB
0000299F  5F                                       3131+         DC    X'5F'

000029A0  B98D 0020                                3133+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000029A4  5020 8E9C                     0000109C  3134+         ST    R2,CCPSW              to save CC
000029A8  07FB                                    3135+         BR    R11                 return
000029AC                                          3136+RE87     DC    0F
000029AC                                          3137+         DROP  R5
000029AC  0FF00000 00000000                       3138          DC    XL16'0FF00000000000000000000001100F'   V1 source
000029B4  00000000 0001100F
                                                  3139
                                                  3140          VRR_G VTPX,X'C024',2
000029C0                                          3141+         DS    0FD
000029C0                        000029C0          3142+         USING *,R5                base for test data and test routine
000029C0  000029DC                                3143+T88      DC    A(X88)              address of test routine
000029C4  0058                                    3144+         DC    H'88'               test number
000029C6  00                                      3145+         DC    XL1'00'
000029C7  02                                      3146+         DC    HL1'2'              cc
000029C8  0D                                      3147+         DC    HL1'13'             cc failed mask
000029C9  E5E3D7E7 40404040                       3148+         DC    CL8'VTPX'           instruction name
000029D4  00000010                                3149+         DC    A(16)               result length
000029D8  000029F4                                3150+REA88    DC    A(RE88)             result address
                                                  3151+*                                    INSTRUCTION UNDER TEST ROUTINE
000029DC                                          3152+X88      DS    0F
000029DC  E710 5034 0006                000029F4  3153+         VL    V1,RE88             get V1 source

000029E2                                          3156+         DS    0H                        E65F VTP - Vector Test Decimal
000029E2  E6                                      3157+         DC    X'E6'
000029E3  01                                      3158+         DC    X'01'                     v1
000029E4  0C0240                                  3159+         DC    HL3'787008'               0, I3, RXB
000029E7  5F                                      3160+         DC    X'5F'

000029E8  B98D 0020                               3162+         EPSW  R2,R0               exptract psw
000029EC  5020 8E9C                     0000109C  3163+         ST    R2,CCPSW              to save CC
000029F0  07FB                                    3164+         BR    R11                 return
000029F4                                          3165+RE88     DC    0F
000029F4                                          3166+         DROP  R5
000029F4  0FF00000 00000000                       3167          DC    XL16'0FF00000000000000000000011100F'   V1 source
000029FC  00000000 0011100F
                                                  3168
                                                  3169          VRR_G VTPX,X'C024',1
00002A08                                          3170+         DS    0FD
00002A08                        00002A08          3171+         USING *,R5                base for test data and test routine
00002A08  00002A24                                3172+T89      DC    A(X89)              address of test routine
00002A0C  0059                                    3173+         DC    H'89'               test number
00002A0E  00                                      3174+         DC    XL1'00'
00002A0F  01                                      3175+         DC    HL1'1'              cc
00002A10  0B                                      3176+         DC    HL1'11'             cc failed mask
00002A11  E5E3D7E7 40404040                       3177+         DC    CL8'VTPX'           instruction name
00002A1C  00000010                                3178+         DC    A(16)               result length
00002A20  00002A3C                                3179+REA89    DC    A(RE89)             result address
                                                  3180+*                                    INSTRUCTION UNDER TEST ROUTINE
00002A24                                          3181+X89      DS    0F
00002A24  E710 5034 0006                00002A3C  3182+         VL    V1,RE89             get V1 source

00002A2A                                          3185+         DS    0H                        E65F VTP - Vector Test Decimal
00002A2A  E6                                      3186+         DC    X'E6'
00002A2B  01                                      3187+         DC    X'01'                     v1
00002A2C  0C0240                                  3188+         DC    HL3'787008'               0, I3, RXB
00002A2F  5F                                      3189+         DC    X'5F'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002A30  B98D 0020                                3191+         EPSW  R2,R0              exptract psw
00002A34  5020 8E9C                       0000109C 3192+         ST    R2,CCPSW               to save CC
00002A38  07FB                                     3193+         BR    R11                return
00002A3C                                           3194+RE89     DC    0F
00002A3C                                           3195+         DROP  R5
00002A3C  0FF00000 00000000                        3196          DC    XL16'0FF00000000000000000000000011000'   V1 source
00002A44  00000000 00011000
                                                   3197
                                                   3198          VRR_G VTPX,X'C024',2
00002A50                                           3199+         DS    0FD
00002A50                          00002A50         3200+         USING *,R5               base for test data and test routine
00002A50  00002A6C                                 3201+T90      DC    A(X90)             address of test routine
00002A54  005A                                     3202+         DC    H'90'              test number
00002A56  00                                       3203+         DC    XL1'00'
00002A57  02                                       3204+         DC    HL1'2'             cc
00002A58  0D                                       3205+         DC    HL1'13'            cc failed mask
00002A59  E5E3D7E7 40404040                        3206+         DC    CL8'VTPX'          instruction name
00002A64  00000010                                 3207+         DC    A(16)              result length
00002A68  00002A84                                 3208+REA90    DC    A(RE90)            result address
                                                   3209+*                                   INSTRUCTION UNDER TEST ROUTINE
00002A6C                                           3210+X90      DS    0F
00002A6C  E710 5034 0006                  00002A84 3211+         VL    V1,RE90            get V1 source

00002A72                                           3214+         DS    0H                       E65F VTP - Vector Test Decimal
00002A72  E6                                       3215+         DC    X'E6'
00002A73  01                                       3216+         DC    X'01'                    v1
00002A74  0C0240                                   3217+         DC    HL3'787008'              0, I3, RXB
00002A77  5F                                       3218+         DC    X'5F'

00002A78  B98D 0020                                3220+         EPSW  R2,R0              exptract psw
00002A7C  5020 8E9C                       0000109C 3221+         ST    R2,CCPSW               to save CC
00002A80  07FB                                     3222+         BR    R11                return
00002A84                                           3223+RE90     DC    0F
00002A84                                           3224+         DROP  R5
00002A84  0FF00000 00000000                        3225          DC    XL16'0FF00000000000000000000001F00F'   V1 source
00002A8C  00000000 0001F00F
                                                   3226
                                                   3227          VRR_G VTPX,X'C024',3
00002A98                                           3228+         DS    0FD
00002A98                          00002A98         3229+         USING *,R5               base for test data and test routine
00002A98  00002AB4                                 3230+T91      DC    A(X91)             address of test routine
00002A9C  005B                                     3231+         DC    H'91'              test number
00002A9E  00                                       3232+         DC    XL1'00'
00002A9F  03                                       3233+         DC    HL1'3'             cc
00002AA0  0E                                       3234+         DC    HL1'14'            cc failed mask
00002AA1  E5E3D7E7 40404040                        3235+         DC    CL8'VTPX'          instruction name
00002AAC  00000010                                 3236+         DC    A(16)              result length
00002AB0  00002ACC                                 3237+REA91    DC    A(RE91)            result address
                                                   3238+*                                   INSTRUCTION UNDER TEST ROUTINE
00002AB4                                           3239+X91      DS    0F
00002AB4  E710 5034 0006                  00002ACC 3240+         VL    V1,RE91            get V1 source

00002ABA                                           3243+         DS    0H                       E65F VTP - Vector Test Decimal
00002ABA  E6                                       3244+         DC    X'E6'
00002ABB  01                                       3245+         DC    X'01'                    v1
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002ABC  0C0240                                   3246+         DC    HL3'787008'             0, I3, RXB
00002ABF  5F                                       3247+         DC    X'5F'

00002AC0  B98D 0020                                3249+         EPSW  R2,R0             exptract psw
00002AC4  5020 8E9C                     0000109C   3250+         ST    R2,CCPSW              to save CC
00002AC8  07FB                                     3251+         BR    R11               return
00002ACC                                           3252+RE91     DC    0F
00002ACC                                           3253+         DROP  R5
00002ACC  0FF00000 00000000                        3254          DC    XL16'0FF00000000000000000000000111009'   V1 source
00002AD4  00000000 00111009
                                                   3255
                                                   3256          VRR_G VTPX,X'C03E',2
00002AE0                                           3257+         DS    0FD
00002AE0                        00002AE0           3258+         USING *,R5              base for test data and test routine
00002AE0  00002AFC                                 3259+T92      DC    A(X92)            address of test routine
00002AE4  005C                                     3260+         DC    H'92'             test number
00002AE6  00                                       3261+         DC    XL1'00'
00002AE7  02                                       3262+         DC    HL1'2'            cc
00002AE8  0D                                       3263+         DC    HL1'13'           cc failed mask
00002AE9  E5E3D7E7 40404040                        3264+         DC    CL8'VTPX'         instruction name
00002AF4  00000010                                 3265+         DC    A(16)             result length
00002AF8  00002B14                                 3266+REA92    DC    A(RE92)           result address
                                                   3267+*                                  INSTRUCTION UNDER TEST ROUTINE
00002AFC                                           3268+X92      DS    0F
00002AFC  E710 5034 0006                00002B14   3269+         VL    V1,RE92           get V1 source

00002B02                                           3272+         DS    0H                      E65F VTP - Vector Test Decimal
00002B02  E6                                       3273+         DC    X'E6'
00002B03  01                                       3274+         DC    X'01'                   v1
00002B04  0C03E0                                   3275+         DC    HL3'787424'             0, I3, RXB
00002B07  5F                                       3276+         DC    X'5F'

00002B08  B98D 0020                                3278+         EPSW  R2,R0             exptract psw
00002B0C  5020 8E9C                     0000109C   3279+         ST    R2,CCPSW              to save CC
00002B10  07FB                                     3280+         BR    R11               return
00002B14                                           3281+RE92     DC    0F
00002B14                                           3282+         DROP  R5
00002B14  10000000 00000000                        3283          DC    XL16'10000000000000000000000000000000C'   V1 source
00002B1C  00000000 0000000C
                                                   3284
                                                   3285 *-----------------------------------------------------------------
                                                   3286 *  Sign-Test Control: STC=2
                                                   3287 *-----------------------------------------------------------------
                                                   3288 * BTP=0, STC=2, DC=0                  only sign: C,D valid, no digits
                                                   3289          VRR_G VTPX,X'8040',1
00002B28                                           3290+         DS    0FD
00002B28                        00002B28           3291+         USING *,R5              base for test data and test routine
00002B28  00002B44                                 3292+T93      DC    A(X93)            address of test routine
00002B2C  005D                                     3293+         DC    H'93'             test number
00002B2E  00                                       3294+         DC    XL1'00'
00002B2F  01                                       3295+         DC    HL1'1'            cc
00002B30  0B                                       3296+         DC    HL1'11'           cc failed mask
00002B31  E5E3D7E7 40404040                        3297+         DC    CL8'VTPX'         instruction name
00002B3C  00000010                                 3298+         DC    A(16)             result length
00002B40  00002B5C                                 3299+REA93    DC    A(RE93)           result address
                                                   3300+*                                  INSTRUCTION UNDER TEST ROUTINE
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002B44                                           3301+X93      DS    0F
00002B44  E710 5034 0006                00002B5C   3302+         VL    V1,RE93           get V1 source

00002B4A                                           3305+         DS    0H                      E65F VTP - Vector Test Decimal
00002B4A  E6                                       3306+         DC    X'E6'
00002B4B  01                                       3307+         DC    X'01'                   v1
00002B4C  080400                                   3308+         DC    HL3'525312'             0, I3, RXB
00002B4F  5F                                       3309+         DC    X'5F'

00002B50  B98D 0020                                3311+         EPSW  R2,R0             exptract psw
00002B54  5020 8E9C                     0000109C   3312+         ST    R2,CCPSW              to save CC
00002B58  07FB                                     3313+         BR    R11               return
00002B5C                                           3314+RE93     DC    0F
00002B5C                                           3315+         DROP  R5
00002B5C  0FF00000 00000000                        3316          DC    XL16'0FF0000000000000000000000000000A'   V1 source
00002B64  00000000 0000000A
                                                   3317
                                                   3318          VRR_G VTPX,X'8040',1
00002B70                                           3319+         DS    0FD
00002B70                      00002B70             3320+         USING *,R5              base for test data and test routine
00002B70  00002B8C                                 3321+T94      DC    A(X94)            address of test routine
00002B74  005E                                     3322+         DC    H'94'             test number
00002B76  00                                       3323+         DC    XL1'00'
00002B77  01                                       3324+         DC    HL1'1'            cc
00002B78  0B                                       3325+         DC    HL1'11'           cc failed mask
00002B79  E5E3D7E7 40404040                        3326+         DC    CL8'VTPX'         instruction name
00002B84  00000010                                 3327+         DC    A(16)             result length
00002B88  00002BA4                                 3328+REA94    DC    A(RE94)           result address
                                                   3329+*                                  INSTRUCTION UNDER TEST ROUTINE
00002B8C                                           3330+X94      DS    0F
00002B8C  E710 5034 0006                00002BA4   3331+         VL    V1,RE94           get V1 source

00002B92                                           3334+         DS    0H                      E65F VTP - Vector Test Decimal
00002B92  E6                                       3335+         DC    X'E6'
00002B93  01                                       3336+         DC    X'01'                   v1
00002B94  080400                                   3337+         DC    HL3'525312'             0, I3, RXB
00002B97  5F                                       3338+         DC    X'5F'

00002B98  B98D 0020                                3340+         EPSW  R2,R0             exptract psw
00002B9C  5020 8E9C                     0000109C   3341+         ST    R2,CCPSW              to save CC
00002BA0  07FB                                     3342+         BR    R11               return
00002BA4                                           3343+RE94     DC    0F
00002BA4                                           3344+         DROP  R5
00002BA4  0FF00000 00000000                        3345          DC    XL16'0FF0000000000000000000000000000B'   V1 source
00002BAC  00000000 0000000B
                                                   3346
                                                   3347          VRR_G VTPX,X'8040',0
00002BB8                                           3348+         DS    0FD
00002BB8                      00002BB8             3349+         USING *,R5              base for test data and test routine
00002BB8  00002BD4                                 3350+T95      DC    A(X95)            address of test routine
00002BBC  005F                                     3351+         DC    H'95'             test number
00002BBE  00                                       3352+         DC    XL1'00'
00002BBF  00                                       3353+         DC    HL1'0'            cc
00002BC0  07                                       3354+         DC    HL1'7'            cc failed mask
00002BC1  E5E3D7E7 40404040                        3355+         DC    CL8'VTPX'         instruction name
00002BCC  00000010                                 3356+         DC    A(16)             result length
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002BD0  00002BEC                                 3357+REA95    DC    A(RE95)           result address
                                                   3358+*                                INSTRUCTION UNDER TEST ROUTINE
00002BD4                                           3359+X95      DS    0F
00002BD4  E710 5034 0006                 00002BEC  3360+         VL    V1,RE95           get V1 source

00002BDA                                           3363+         DS    0H                      E65F VTP - Vector Test Decimal
00002BDA  E6                                       3364+         DC    X'E6'
00002BDB  01                                       3365+         DC    X'01'                   v1
00002BDC  080400                                   3366+         DC    HL3'525312'             0, I3, RXB
00002BDF  5F                                       3367+         DC    X'5F'

00002BE0  B98D 0020                                3369+         EPSW  R2,R0             exptract psw
00002BE4  5020 8E9C                      0000109C  3370+         ST    R2,CCPSW              to save CC
00002BE8  07FB                                     3371+         BR    R11               return
00002BEC                                           3372+RE95     DC    0F
00002BEC                                           3373+         DROP  R5
00002BEC  0FF00000 00000000                        3374          DC    XL16'0FF00000000000000000000000000000C'   V1 source
00002BF4  00000000 0000000C
                                                   3375
                                                   3376          VRR_G VTPX,X'8040',0
00002C00                                           3377+         DS    0FD
00002C00                       00002C00            3378+         USING *,R5              base for test data and test routine
00002C00  00002C1C                                 3379+T96      DC    A(X96)            address of test routine
00002C04  0060                                     3380+         DC    H'96'             test number
00002C06  00                                       3381+         DC    XL1'00'
00002C07  00                                       3382+         DC    HL1'0'            cc
00002C08  07                                       3383+         DC    HL1'7'            cc failed mask
00002C09  E5E3D7E7 40404040                        3384+         DC    CL8'VTPX'         instruction name
00002C14  00000010                                 3385+         DC    A(16)             result length
00002C18  00002C34                                 3386+REA96    DC    A(RE96)           result address
                                                   3387+*                                INSTRUCTION UNDER TEST ROUTINE
00002C1C                                           3388+X96      DS    0F
00002C1C  E710 5034 0006                 00002C34  3389+         VL    V1,RE96           get V1 source

00002C22                                           3392+         DS    0H                      E65F VTP - Vector Test Decimal
00002C22  E6                                       3393+         DC    X'E6'
00002C23  01                                       3394+         DC    X'01'                   v1
00002C24  080400                                   3395+         DC    HL3'525312'             0, I3, RXB
00002C27  5F                                       3396+         DC    X'5F'

00002C28  B98D 0020                                3398+         EPSW  R2,R0             exptract psw
00002C2C  5020 8E9C                      0000109C  3399+         ST    R2,CCPSW              to save CC
00002C30  07FB                                     3400+         BR    R11               return
00002C34                                           3401+RE96     DC    0F
00002C34                                           3402+         DROP  R5
00002C34  0FF00000 00000000                        3403          DC    XL16'0FF00000000000000000000000000000D'   V1 source
00002C3C  00000000 0000000D
                                                   3404
                                                   3405          VRR_G VTPX,X'8040',1
00002C48                                           3406+         DS    0FD
00002C48                       00002C48            3407+         USING *,R5              base for test data and test routine
00002C48  00002C64                                 3408+T97      DC    A(X97)            address of test routine
00002C4C  0061                                     3409+         DC    H'97'             test number
00002C4E  00                                       3410+         DC    XL1'00'
00002C4F  01                                       3411+         DC    HL1'1'            cc
00002C50  0B                                       3412+         DC    HL1'11'           cc failed mask
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002C51  E5E3D7E7 40404040                        3413+         DC    CL8'VTPX'         instruction name
00002C5C  00000010                                 3414+         DC    A(16)             result length
00002C60  00002C7C                                 3415+REA97    DC    A(RE97)           result address
                                                   3416+*                                  INSTRUCTION UNDER TEST ROUTINE
00002C64                                           3417+X97      DS    0F
00002C64  E710 5034 0006                00002C7C   3418+         VL    V1,RE97           get V1 source

00002C6A                                           3421+         DS    0H                      E65F VTP - Vector Test Decimal
00002C6A  E6                                       3422+         DC    X'E6'
00002C6B  01                                       3423+         DC    X'01'                   v1
00002C6C  080400                                   3424+         DC    HL3'525312'             0, I3, RXB
00002C6F  5F                                       3425+         DC    X'5F'

00002C70  B98D 0020                                3427+         EPSW  R2,R0             exptract psw
00002C74  5020 8E9C                     0000109C   3428+         ST    R2,CCPSW              to save CC
00002C78  07FB                                     3429+         BR    R11               return
00002C7C                                           3430+RE97     DC    0F
00002C7C                                           3431+         DROP  R5
00002C7C  0FF00000 00000000                        3432          DC    XL16'0FF00000000000000000000000000E'   V1 source
00002C84  00000000 0000000E
                                                   3433
                                                   3434          VRR_G VTPX,X'8040',1
00002C90                                           3435+         DS    0FD
00002C90                        00002C90           3436+         USING *,R5              base for test data and test routine
00002C90  00002CAC                                 3437+T98      DC    A(X98)            address of test routine
00002C94  0062                                     3438+         DC    H'98'             test number
00002C96  00                                       3439+         DC    XL1'00'
00002C97  01                                       3440+         DC    HL1'1'            cc
00002C98  0B                                       3441+         DC    HL1'11'           cc failed mask
00002C99  E5E3D7E7 40404040                        3442+         DC    CL8'VTPX'         instruction name
00002CA4  00000010                                 3443+         DC    A(16)             result length
00002CA8  00002CC4                                 3444+REA98    DC    A(RE98)           result address
                                                   3445+*                                  INSTRUCTION UNDER TEST ROUTINE
00002CAC                                           3446+X98      DS    0F
00002CAC  E710 5034 0006                00002CC4   3447+         VL    V1,RE98           get V1 source

00002CB2                                           3450+         DS    0H                      E65F VTP - Vector Test Decimal
00002CB2  E6                                       3451+         DC    X'E6'
00002CB3  01                                       3452+         DC    X'01'                   v1
00002CB4  080400                                   3453+         DC    HL3'525312'             0, I3, RXB
00002CB7  5F                                       3454+         DC    X'5F'

00002CB8  B98D 0020                                3456+         EPSW  R2,R0             exptract psw
00002CBC  5020 8E9C                     0000109C   3457+         ST    R2,CCPSW              to save CC
00002CC0  07FB                                     3458+         BR    R11               return
00002CC4                                           3459+RE98     DC    0F
00002CC4                                           3460+         DROP  R5
00002CC4  0FF00000 00000000                        3461          DC    XL16'0FF00000000000000000000000000F'   V1 source
00002CCC  00000000 0000000F
                                                   3462
                                                   3463          VRR_G VTPX,X'8040',1
00002CD8                                           3464+         DS    0FD
00002CD8                        00002CD8           3465+         USING *,R5              base for test data and test routine
00002CD8  00002CF4                                 3466+T99      DC    A(X99)            address of test routine
00002CDC  0063                                     3467+         DC    H'99'             test number
00002CDE  00                                       3468+         DC    XL1'00'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002CDF  01                                      3469+         DC    HL1'1'            cc
00002CE0  0B                                      3470+         DC    HL1'11'           cc failed mask
00002CE1  E5E3D7E7 40404040                       3471+         DC    CL8'VTPX'         instruction name
00002CEC  00000010                                3472+         DC    A(16)             result length
00002CF0  00002D0C                                3473+REA99    DC    A(RE99)           result address
                                                  3474+*                                  INSTRUCTION UNDER TEST ROUTINE
00002CF4                                          3475+X99      DS    0F
00002CF4  E710 5034 0006                00002D0C  3476+         VL    V1,RE99           get V1 source

00002CFA                                          3479+         DS    0H                      E65F VTP - Vector Test Decimal
00002CFA  E6                                      3480+         DC    X'E6'
00002CFB  01                                      3481+         DC    X'01'                   v1
00002CFC  080400                                  3482+         DC    HL3'525312'             0, I3, RXB
00002CFF  5F                                      3483+         DC    X'5F'

00002D00  B98D 0020                               3485+         EPSW  R2,R0             exptract psw
00002D04  5020 8E9C                     0000109C  3486+         ST    R2,CCPSW              to save CC
00002D08  07FB                                    3487+         BR    R11               return
00002D0C                                          3488+RE99     DC    0F
00002D0C                                          3489+         DROP  R5
00002D0C  0FF00000 00000000                       3490          DC    XL16'0FF00000000000000000000000000000'   V1 source
00002D14  00000000 00000000
                                                  3491
                                                  3492          VRR_G VTPX,X'8040',1
00002D20                                          3493+         DS    0FD
00002D20                        00002D20          3494+         USING *,R5              base for test data and test routine
00002D20  00002D3C                                3495+T100     DC    A(X100)           address of test routine
00002D24  0064                                    3496+         DC    H'100'            test number
00002D26  00                                      3497+         DC    XL1'00'
00002D27  01                                      3498+         DC    HL1'1'            cc
00002D28  0B                                      3499+         DC    HL1'11'           cc failed mask
00002D29  E5E3D7E7 40404040                       3500+         DC    CL8'VTPX'         instruction name
00002D34  00000010                                3501+         DC    A(16)             result length
00002D38  00002D54                                3502+REA100   DC    A(RE100)          result address
                                                  3503+*                                  INSTRUCTION UNDER TEST ROUTINE
00002D3C                                          3504+X100     DS    0F
00002D3C  E710 5034 0006                00002D54  3505+         VL    V1,RE100          get V1 source

00002D42                                          3508+         DS    0H                      E65F VTP - Vector Test Decimal
00002D42  E6                                      3509+         DC    X'E6'
00002D43  01                                      3510+         DC    X'01'                   v1
00002D44  080400                                  3511+         DC    HL3'525312'             0, I3, RXB
00002D47  5F                                      3512+         DC    X'5F'

00002D48  B98D 0020                               3514+         EPSW  R2,R0             exptract psw
00002D4C  5020 8E9C                     0000109C  3515+         ST    R2,CCPSW              to save CC
00002D50  07FB                                    3516+         BR    R11               return
00002D54                                          3517+RE100    DC    0F
00002D54                                          3518+         DROP  R5
00002D54  0FF00000 00000000                       3519          DC    XL16'0FF00000000000000000000000000009'   V1 source
00002D5C  00000000 00000009
                                                  3520
                                                  3521 * BTP=0, STC=2, DC>0 and odd
                                                  3522 *                                  sign: C, D  valid, 0 digits
                                                  3523          VRR_G VTPX,X'8047',1
00002D68                                          3524+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002D68                     00002D68              3525+         USING *,R5              base for test data and test routine
00002D68  00002D84                                 3526+T101     DC    A(X101)           address of test routine
00002D6C  0065                                     3527+         DC    H'101'            test number
00002D6E  00                                       3528+         DC    XL1'00'
00002D6F  01                                       3529+         DC    HL1'1'            cc
00002D70  0B                                       3530+         DC    HL1'11'           cc failed mask
00002D71  E5E3D7E7 40404040                        3531+         DC    CL8'VTPX'         instruction name
00002D7C  00000010                                 3532+         DC    A(16)             result length
00002D80  00002D9C                                 3533+REA101   DC    A(RE101)          result address
                                                   3534+*                                  INSTRUCTION UNDER TEST ROUTINE
00002D84                                           3535+X101     DS    0F
00002D84  E710 5034 0006                00002D9C   3536+         VL    V1,RE101          get V1 source

00002D8A                                           3539+         DS    0H                      E65F VTP - Vector Test Decimal
00002D8A  E6                                       3540+         DC    X'E6'
00002D8B  01                                       3541+         DC    X'01'                   v1
00002D8C  080470                                   3542+         DC    HL3'525424'             0, I3, RXB
00002D8F  5F                                       3543+         DC    X'5F'

00002D90  B98D 0020                                3545+         EPSW  R2,R0             exptract psw
00002D94  5020 8E9C                     0000109C   3546+         ST    R2,CCPSW              to save CC
00002D98  07FB                                     3547+         BR    R11               return
00002D9C                                           3548+RE101    DC    0F
00002D9C                                           3549+         DROP  R5
00002D9C  0FF00000 00000000                        3550          DC    XL16'0FF0000000000000000000000000000B'   V1 source
00002DA4  00000000 0000000B
                                                   3551
                                                   3552          VRR_G VTPX,X'804B',0
00002DB0                                           3553+         DS    0FD
00002DB0                     00002DB0              3554+         USING *,R5              base for test data and test routine
00002DB0  00002DCC                                 3555+T102     DC    A(X102)           address of test routine
00002DB4  0066                                     3556+         DC    H'102'            test number
00002DB6  00                                       3557+         DC    XL1'00'
00002DB7  00                                       3558+         DC    HL1'0'            cc
00002DB8  07                                       3559+         DC    HL1'7'            cc failed mask
00002DB9  E5E3D7E7 40404040                        3560+         DC    CL8'VTPX'         instruction name
00002DC4  00000010                                 3561+         DC    A(16)             result length
00002DC8  00002DE4                                 3562+REA102   DC    A(RE102)          result address
                                                   3563+*                                  INSTRUCTION UNDER TEST ROUTINE
00002DCC                                           3564+X102     DS    0F
00002DCC  E710 5034 0006                00002DE4   3565+         VL    V1,RE102          get V1 source

00002DD2                                           3568+         DS    0H                      E65F VTP - Vector Test Decimal
00002DD2  E6                                       3569+         DC    X'E6'
00002DD3  01                                       3570+         DC    X'01'                   v1
00002DD4  0804B0                                   3571+         DC    HL3'525488'             0, I3, RXB
00002DD7  5F                                       3572+         DC    X'5F'

00002DD8  B98D 0020                                3574+         EPSW  R2,R0             exptract psw
00002DDC  5020 8E9C                     0000109C   3575+         ST    R2,CCPSW              to save CC
00002DE0  07FB                                     3576+         BR    R11               return
00002DE4                                           3577+RE102    DC    0F
00002DE4                                           3578+         DROP  R5
00002DE4  0FF00000 00000000                        3579          DC    XL16'0FF0000000000000000000000000000D'   V1 source
00002DEC  00000000 0000000D
                                                   3580
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   3581 *                                   sign: C, D valid, non-0 digits
                                                   3582          VRR_G VTPX,X'8045',1
00002DF8                                           3583+         DS    0FD
00002DF8                       00002DF8            3584+         USING *,R5               base for test data and test routine
00002DF8  00002E14                                 3585+T103     DC    A(X103)            address of test routine
00002DFC  0067                                     3586+         DC    H'103'             test number
00002DFE  00                                       3587+         DC    XL1'00'
00002DFF  01                                       3588+         DC    HL1'1'             cc
00002E00  0B                                       3589+         DC    HL1'11'            cc failed mask
00002E01  E5E3D7E7 40404040                        3590+         DC    CL8'VTPX'          instruction name
00002E0C  00000010                                 3591+         DC    A(16)              result length
00002E10  00002E2C                                 3592+REA103   DC    A(RE103)           result address
                                                   3593+*                                   INSTRUCTION UNDER TEST ROUTINE
00002E14                                           3594+X103     DS    0F
00002E14  E710 5034 0006               00002E2C    3595+         VL    V1,RE103           get V1 source

00002E1A                                           3598+         DS    0H                       E65F VTP - Vector Test Decimal
00002E1A  E6                                       3599+         DC    X'E6'
00002E1B  01                                       3600+         DC    X'01'                    v1
00002E1C  080450                                   3601+         DC    HL3'525392'              0, I3, RXB
00002E1F  5F                                       3602+         DC    X'5F'

00002E20  B98D 0020                                3604+         EPSW  R2,R0              exptract psw
00002E24  5020 8E9C                    0000109C    3605+         ST    R2,CCPSW               to save CC
00002E28  07FB                                     3606+         BR    R11                return
00002E2C                                           3607+RE103    DC    0F
00002E2C                                           3608+         DROP  R5
00002E2C  0FF00000 00000000                        3609          DC    XL16'0FF00000000000000000000000100A'   V1 source
00002E34  00000000 0000100A
                                                   3610
                                                   3611          VRR_G VTPX,X'8047',1
00002E40                                           3612+         DS    0FD
00002E40                       00002E40            3613+         USING *,R5               base for test data and test routine
00002E40  00002E5C                                 3614+T104     DC    A(X104)            address of test routine
00002E44  0068                                     3615+         DC    H'104'             test number
00002E46  00                                       3616+         DC    XL1'00'
00002E47  01                                       3617+         DC    HL1'1'             cc
00002E48  0B                                       3618+         DC    HL1'11'            cc failed mask
00002E49  E5E3D7E7 40404040                        3619+         DC    CL8'VTPX'          instruction name
00002E54  00000010                                 3620+         DC    A(16)              result length
00002E58  00002E74                                 3621+REA104   DC    A(RE104)           result address
                                                   3622+*                                   INSTRUCTION UNDER TEST ROUTINE
00002E5C                                           3623+X104     DS    0F
00002E5C  E710 5034 0006               00002E74    3624+         VL    V1,RE104           get V1 source

00002E62                                           3627+         DS    0H                       E65F VTP - Vector Test Decimal
00002E62  E6                                       3628+         DC    X'E6'
00002E63  01                                       3629+         DC    X'01'                    v1
00002E64  080470                                   3630+         DC    HL3'525424'              0, I3, RXB
00002E67  5F                                       3631+         DC    X'5F'

00002E68  B98D 0020                                3633+         EPSW  R2,R0              exptract psw
00002E6C  5020 8E9C                    0000109C    3634+         ST    R2,CCPSW               to save CC
00002E70  07FB                                     3635+         BR    R11                return
00002E74                                           3636+RE104    DC    0F
00002E74                                           3637+         DROP  R5
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002E74  0FF00000 00000000                        3638          DC    XL16'0FF00000000000000000000000100B'   V1 source
00002E7C  00000000 0000100B
                                                   3639
                                                   3640          VRR_G VTPX,X'8049',0
00002E88                                           3641+         DS    0FD
00002E88                     00002E88              3642+         USING *,R5               base for test data and test routine
00002E88  00002EA4                                 3643+T105     DC    A(X105)            address of test routine
00002E8C  0069                                     3644+         DC    H'105'             test number
00002E8E  00                                       3645+         DC    XL1'00'
00002E8F  00                                       3646+         DC    HL1'0'             cc
00002E90  07                                       3647+         DC    HL1'7'             cc failed mask
00002E91  E5E3D7E7 40404040                        3648+         DC    CL8'VTPX'          instruction name
00002E9C  00000010                                 3649+         DC    A(16)              result length
00002EA0  00002EBC                                 3650+REA105   DC    A(RE105)           result address
                                                   3651+*                                   INSTRUCTION UNDER TEST ROUTINE
00002EA4                                           3652+X105     DS    0F
00002EA4  E710 5034 0006                00002EBC   3653+         VL    V1,RE105           get V1 source

00002EAA                                           3656+         DS    0H                       E65F VTP - Vector Test Decimal
00002EAA  E6                                       3657+         DC    X'E6'
00002EAB  01                                       3658+         DC    X'01'                    v1
00002EAC  080490                                   3659+         DC    HL3'525456'              0, I3, RXB
00002EAF  5F                                       3660+         DC    X'5F'

00002EB0  B98D 0020                                3662+         EPSW  R2,R0              exptract psw
00002EB4  5020 8E9C                     0000109C   3663+         ST    R2,CCPSW               to save CC
00002EB8  07FB                                     3664+         BR    R11                return
00002EBC                                           3665+RE105    DC    0F
00002EBC                                           3666+         DROP  R5
00002EBC  0FF00000 00000000                        3667          DC    XL16'0FF00000000000000000000000100C'   V1 source
00002EC4  00000000 0000100C
                                                   3668
                                                   3669          VRR_G VTPX,X'804B',0
00002ED0                                           3670+         DS    0FD
00002ED0                     00002ED0              3671+         USING *,R5               base for test data and test routine
00002ED0  00002EEC                                 3672+T106     DC    A(X106)            address of test routine
00002ED4  006A                                     3673+         DC    H'106'             test number
00002ED6  00                                       3674+         DC    XL1'00'
00002ED7  00                                       3675+         DC    HL1'0'             cc
00002ED8  07                                       3676+         DC    HL1'7'             cc failed mask
00002ED9  E5E3D7E7 40404040                        3677+         DC    CL8'VTPX'          instruction name
00002EE4  00000010                                 3678+         DC    A(16)              result length
00002EE8  00002F04                                 3679+REA106   DC    A(RE106)           result address
                                                   3680+*                                   INSTRUCTION UNDER TEST ROUTINE
00002EEC                                           3681+X106     DS    0F
00002EEC  E710 5034 0006                00002F04   3682+         VL    V1,RE106           get V1 source

00002EF2                                           3685+         DS    0H                       E65F VTP - Vector Test Decimal
00002EF2  E6                                       3686+         DC    X'E6'
00002EF3  01                                       3687+         DC    X'01'                    v1
00002EF4  0804B0                                   3688+         DC    HL3'525488'              0, I3, RXB
00002EF7  5F                                       3689+         DC    X'5F'

00002EF8  B98D 0020                                3691+         EPSW  R2,R0              exptract psw
00002EFC  5020 8E9C                     0000109C   3692+         ST    R2,CCPSW               to save CC
00002F00  07FB                                     3693+         BR    R11                return
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002F04                                           3694+RE106    DC    0F
00002F04                                           3695+         DROP  R5
00002F04  0FF00000 00000000                        3696          DC    XL16'0FF00000000000000000000000100D'   V1 source
00002F0C  00000000 0000100D
                                                   3697
                                                   3698          VRR_G VTPX,X'804D',1
00002F18                                           3699+         DS    0FD
00002F18                      00002F18             3700+         USING *,R5              base for test data and test routine
00002F18  00002F34                                 3701+T107     DC    A(X107)           address of test routine
00002F1C  006B                                     3702+         DC    H'107'            test number
00002F1E  00                                       3703+         DC    XL1'00'
00002F1F  01                                       3704+         DC    HL1'1'            cc
00002F20  0B                                       3705+         DC    HL1'11'           cc failed mask
00002F21  E5E3D7E7 40404040                        3706+         DC    CL8'VTPX'         instruction name
00002F2C  00000010                                 3707+         DC    A(16)             result length
00002F30  00002F4C                                 3708+REA107   DC    A(RE107)          result address
                                                   3709+*                                  INSTRUCTION UNDER TEST ROUTINE
00002F34                                           3710+X107     DS    0F
00002F34  E710 5034 0006                00002F4C   3711+         VL    V1,RE107          get V1 source

00002F3A                                           3714+         DS    0H                      E65F VTP - Vector Test Decimal
00002F3A  E6                                       3715+         DC    X'E6'
00002F3B  01                                       3716+         DC    X'01'                   v1
00002F3C  0804D0                                   3717+         DC    HL3'525520'             0, I3, RXB
00002F3F  5F                                       3718+         DC    X'5F'

00002F40  B98D 0020                                3720+         EPSW  R2,R0             exptract psw
00002F44  5020 8E9C                     0000109C   3721+         ST    R2,CCPSW                to save CC
00002F48  07FB                                     3722+         BR    R11               return
00002F4C                                           3723+RE107    DC    0F
00002F4C                                           3724+         DROP  R5
00002F4C  0FF00000 00000000                        3725          DC    XL16'0FF00000000000000000000000100E'   V1 source
00002F54  00000000 0000100E
                                                   3726
                                                   3727          VRR_G VTPX,X'804F',1
00002F60                                           3728+         DS    0FD
00002F60                      00002F60             3729+         USING *,R5              base for test data and test routine
00002F60  00002F7C                                 3730+T108     DC    A(X108)           address of test routine
00002F64  006C                                     3731+         DC    H'108'            test number
00002F66  00                                       3732+         DC    XL1'00'
00002F67  01                                       3733+         DC    HL1'1'            cc
00002F68  0B                                       3734+         DC    HL1'11'           cc failed mask
00002F69  E5E3D7E7 40404040                        3735+         DC    CL8'VTPX'         instruction name
00002F74  00000010                                 3736+         DC    A(16)             result length
00002F78  00002F94                                 3737+REA108   DC    A(RE108)          result address
                                                   3738+*                                  INSTRUCTION UNDER TEST ROUTINE
00002F7C                                           3739+X108     DS    0F
00002F7C  E710 5034 0006                00002F94   3740+         VL    V1,RE108          get V1 source

00002F82                                           3743+         DS    0H                      E65F VTP - Vector Test Decimal
00002F82  E6                                       3744+         DC    X'E6'
00002F83  01                                       3745+         DC    X'01'                   v1
00002F84  0804F0                                   3746+         DC    HL3'525552'             0, I3, RXB
00002F87  5F                                       3747+         DC    X'5F'

00002F88  B98D 0020                                3749+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002F8C  5020 8E9C                     0000109C  3750+         ST    R2,CCPSW              to save CC
00002F90  07FB                                    3751+         BR    R11                 return
00002F94                                          3752+RE108    DC    0F
00002F94                                          3753+         DROP  R5
00002F94  0FF00000 00000000                       3754          DC    XL16'0FF00000000000000000000000100F'   V1 source
00002F9C  00000000 0000100F
                                                  3755
                                                  3756          VRR_G VTPX,X'804F',1
00002FA8                                          3757+         DS    0FD
00002FA8                        00002FA8          3758+         USING *,R5                base for test data and test routine
00002FA8  00002FC4                                3759+T109     DC    A(X109)             address of test routine
00002FAC  006D                                    3760+         DC    H'109'              test number
00002FAE  00                                      3761+         DC    XL1'00'
00002FAF  01                                      3762+         DC    HL1'1'              cc
00002FB0  0B                                      3763+         DC    HL1'11'             cc failed mask
00002FB1  E5E3D7E7 40404040                       3764+         DC    CL8'VTPX'           instruction name
00002FBC  00000010                                3765+         DC    A(16)               result length
00002FC0  00002FDC                                3766+REA109   DC    A(RE109)            result address
                                                  3767+*                                    INSTRUCTION UNDER TEST ROUTINE
00002FC4                                          3768+X109     DS    0F
00002FC4  E710 5034 0006                00002FDC  3769+         VL    V1,RE109            get V1 source

00002FCA                                          3772+         DS    0H                        E65F VTP - Vector Test Decimal
00002FCA  E6                                      3773+         DC    X'E6'
00002FCB  01                                      3774+         DC    X'01'                     v1
00002FCC  0804F0                                  3775+         DC    HL3'525552'               0, I3, RXB
00002FCF  5F                                      3776+         DC    X'5F'

00002FD0  B98D 0020                               3778+         EPSW  R2,R0               exptract psw
00002FD4  5020 8E9C                     0000109C  3779+         ST    R2,CCPSW              to save CC
00002FD8  07FB                                    3780+         BR    R11                 return
00002FDC                                          3781+RE109    DC    0F
00002FDC                                          3782+         DROP  R5
00002FDC  0FF00000 00000000                       3783          DC    XL16'0FF00000000000000000000001000'   V1 source
00002FE4  00000000 00001000
                                                  3784
                                                  3785          VRR_G VTPX,X'804F',3
00002FF0                                          3786+         DS    0FD
00002FF0                        00002FF0          3787+         USING *,R5                base for test data and test routine
00002FF0  0000300C                                3788+T110     DC    A(X110)             address of test routine
00002FF4  006E                                    3789+         DC    H'110'              test number
00002FF6  00                                      3790+         DC    XL1'00'
00002FF7  03                                      3791+         DC    HL1'3'              cc
00002FF8  0E                                      3792+         DC    HL1'14'             cc failed mask
00002FF9  E5E3D7E7 40404040                       3793+         DC    CL8'VTPX'           instruction name
00003004  00000010                                3794+         DC    A(16)               result length
00003008  00003024                                3795+REA110   DC    A(RE110)            result address
                                                  3796+*                                    INSTRUCTION UNDER TEST ROUTINE
0000300C                                          3797+X110     DS    0F
0000300C  E710 5034 0006                00003024  3798+         VL    V1,RE110            get V1 source

00003012                                          3801+         DS    0H                        E65F VTP - Vector Test Decimal
00003012  E6                                      3802+         DC    X'E6'
00003013  01                                      3803+         DC    X'01'                     v1
00003014  0804F0                                  3804+         DC    HL3'525552'               0, I3, RXB
00003017  5F                                      3805+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003018  B98D 0020                                3807+         EPSW  R2,R0             exptract psw
0000301C  5020 8E9C                     0000109C   3808+         ST    R2,CCPSW              to save CC
00003020  07FB                                     3809+         BR    R11               return
00003024                                           3810+RE110    DC    0F
00003024                                           3811+         DROP  R5
00003024  0FF00000 00000000                        3812          DC    XL16'0FF000000000000000000000000F00F'   V1 source
0000302C  00000000 0000F00F
                                                   3813
                                                   3814          VRR_G VTPX,X'804F',3
00003038                                           3815+         DS    0FD
00003038                        00003038           3816+         USING *,R5              base for test data and test routine
00003038  00003054                                 3817+T111     DC    A(X111)           address of test routine
0000303C  006F                                     3818+         DC    H'111'            test number
0000303E  00                                       3819+         DC    XL1'00'
0000303F  03                                       3820+         DC    HL1'3'            cc
00003040  0E                                       3821+         DC    HL1'14'           cc failed mask
00003041  E5E3D7E7 40404040                        3822+         DC    CL8'VTPX'         instruction name
0000304C  00000010                                 3823+         DC    A(16)             result length
00003050  0000306C                                 3824+REA111   DC    A(RE111)          result address
                                                   3825+*                                  INSTRUCTION UNDER TEST ROUTINE
00003054                                           3826+X111     DS    0F
00003054  E710 5034 0006                0000306C   3827+         VL    V1,RE111          get V1 source

0000305A                                           3830+         DS    0H                      E65F VTP - Vector Test Decimal
0000305A  E6                                       3831+         DC    X'E6'
0000305B  01                                       3832+         DC    X'01'                   v1
0000305C  0804F0                                   3833+         DC    HL3'525552'             0, I3, RXB
0000305F  5F                                       3834+         DC    X'5F'

00003060  B98D 0020                                3836+         EPSW  R2,R0             exptract psw
00003064  5020 8E9C                     0000109C   3837+         ST    R2,CCPSW              to save CC
00003068  07FB                                     3838+         BR    R11               return
0000306C                                           3839+RE111    DC    0F
0000306C                                           3840+         DROP  R5
0000306C  0FF00000 00000000                        3841          DC    XL16'0FF000000000000000000000000F009'   V1 source
00003074  00000000 0000F009
                                                   3842
                                                   3843 * BTP=0, STC=2, DC>0 and even
                                                   3844 *                                  sign: C, D valid, 0 digits
                                                   3845          VRR_G VTPX,X'8046',1
00003080                                           3846+         DS    0FD
00003080                        00003080           3847+         USING *,R5              base for test data and test routine
00003080  0000309C                                 3848+T112     DC    A(X112)           address of test routine
00003084  0070                                     3849+         DC    H'112'            test number
00003086  00                                       3850+         DC    XL1'00'
00003087  01                                       3851+         DC    HL1'1'            cc
00003088  0B                                       3852+         DC    HL1'11'           cc failed mask
00003089  E5E3D7E7 40404040                        3853+         DC    CL8'VTPX'         instruction name
00003094  00000010                                 3854+         DC    A(16)             result length
00003098  000030B4                                 3855+REA112   DC    A(RE112)          result address
                                                   3856+*                                  INSTRUCTION UNDER TEST ROUTINE
0000309C                                           3857+X112     DS    0F
0000309C  E710 5034 0006                000030B4   3858+         VL    V1,RE112          get V1 source

000030A2                                           3861+         DS    0H                      E65F VTP - Vector Test Decimal
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000030A2  E6                                      3862+         DC    X'E6'
000030A3  01                                      3863+         DC    X'01'                   v1
000030A4  080460                                  3864+         DC    HL3'525408'             0, I3, RXB
000030A7  5F                                      3865+         DC    X'5F'

000030A8  B98D 0020                               3867+         EPSW  R2,R0             exptract psw
000030AC  5020 8E9C                     0000109C  3868+         ST    R2,CCPSW              to save CC
000030B0  07FB                                    3869+         BR    R11               return
000030B4                                          3870+RE112    DC    0F
000030B4                                          3871+         DROP  R5
000030B4  0FF00000 00000000                       3872          DC    XL16'0FF00000000000000000000000000B'   V1 source
000030BC  00000000 0000000B
                                                  3873
                                                  3874          VRR_G VTPX,X'804A',0
000030C8                                          3875+         DS    0FD
000030C8                        000030C8          3876+         USING *,R5              base for test data and test routine
000030C8  000030E4                                3877+T113     DC    A(X113)           address of test routine
000030CC  0071                                    3878+         DC    H'113'            test number
000030CE  00                                      3879+         DC    XL1'00'
000030CF  00                                      3880+         DC    HL1'0'            cc
000030D0  07                                      3881+         DC    HL1'7'            cc failed mask
000030D1  E5E3D7E7 40404040                       3882+         DC    CL8'VTPX'         instruction name
000030DC  00000010                                3883+         DC    A(16)             result length
000030E0  000030FC                                3884+REA113   DC    A(RE113)          result address
                                                  3885+*                                  INSTRUCTION UNDER TEST ROUTINE
000030E4                                          3886+X113     DS    0F
000030E4  E710 5034 0006                0000030FC 3887+         VL    V1,RE113          get V1 source

000030EA                                          3890+         DS    0H                      E65F VTP - Vector Test Decimal
000030EA  E6                                      3891+         DC    X'E6'
000030EB  01                                      3892+         DC    X'01'                   v1
000030EC  0804A0                                  3893+         DC    HL3'525472'             0, I3, RXB
000030EF  5F                                      3894+         DC    X'5F'

000030F0  B98D 0020                               3896+         EPSW  R2,R0             exptract psw
000030F4  5020 8E9C                     0000109C  3897+         ST    R2,CCPSW              to save CC
000030F8  07FB                                    3898+         BR    R11               return
000030FC                                          3899+RE113    DC    0F
000030FC                                          3900+         DROP  R5
000030FC  0FF00000 00000000                       3901          DC    XL16'0FF00000000000000000000000000D'   V1 source
00003104  00000000 0000000D
                                                  3902
                                                  3903 *                                  sign: C, D valid, non-0 digits
                                                  3904          VRR_G VTPX,X'8044',1
00003110                                          3905+         DS    0FD
00003110                        00003110          3906+         USING *,R5              base for test data and test routine
00003110  0000312C                                3907+T114     DC    A(X114)           address of test routine
00003114  0072                                    3908+         DC    H'114'            test number
00003116  00                                      3909+         DC    XL1'00'
00003117  01                                      3910+         DC    HL1'1'            cc
00003118  0B                                      3911+         DC    HL1'11'           cc failed mask
00003119  E5E3D7E7 40404040                       3912+         DC    CL8'VTPX'         instruction name
00003124  00000010                                3913+         DC    A(16)             result length
00003128  00003144                                3914+REA114   DC    A(RE114)          result address
                                                  3915+*                                  INSTRUCTION UNDER TEST ROUTINE
0000312C                                          3916+X114     DS    0F
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000312C  E710 5034 0006                00003144  3917+         VL    V1,RE114          get V1 source

00003132                                          3920+         DS    0H                      E65F VTP - Vector Test Decimal
00003132  E6                                      3921+         DC    X'E6'
00003133  01                                      3922+         DC    X'01'                   v1
00003134  080440                                  3923+         DC    HL3'525376'             0, I3, RXB
00003137  5F                                      3924+         DC    X'5F'

00003138  B98D 0020                               3926+         EPSW  R2,R0             exptract psw
0000313C  5020 8E9C                     0000109C  3927+         ST    R2,CCPSW              to save CC
00003140  07FB                                    3928+         BR    R11               return
00003144                                          3929+RE114    DC    0F
00003144                                          3930+         DROP  R5
00003144  0FF00000 00000000                       3931          DC    XL16'0FF00000000000000000000000100A'   V1 source
0000314C  00000000 0000100A
                                                  3932
                                                  3933          VRR_G VTPX,X'8046',1
00003158                                          3934+         DS    0FD
00003158                        00003158          3935+         USING *,R5              base for test data and test routine
00003158  00003174                                3936+T115     DC    A(X115)           address of test routine
0000315C  0073                                    3937+         DC    H'115'            test number
0000315E  00                                      3938+         DC    XL1'00'
0000315F  01                                      3939+         DC    HL1'1'            cc
00003160  0B                                      3940+         DC    HL1'11'           cc failed mask
00003161  E5E3D7E7 40404040                       3941+         DC    CL8'VTPX'         instruction name
0000316C  00000010                                3942+         DC    A(16)             result length
00003170  0000318C                                3943+REA115   DC    A(RE115)          result address
                                                  3944+*                                  INSTRUCTION UNDER TEST ROUTINE
00003174                                          3945+X115     DS    0F
00003174  E710 5034 0006                0000318C  3946+         VL    V1,RE115          get V1 source

0000317A                                          3949+         DS    0H                      E65F VTP - Vector Test Decimal
0000317A  E6                                      3950+         DC    X'E6'
0000317B  01                                      3951+         DC    X'01'                   v1
0000317C  080460                                  3952+         DC    HL3'525408'             0, I3, RXB
0000317F  5F                                      3953+         DC    X'5F'

00003180  B98D 0020                               3955+         EPSW  R2,R0             exptract psw
00003184  5020 8E9C                     0000109C  3956+         ST    R2,CCPSW              to save CC
00003188  07FB                                    3957+         BR    R11               return
0000318C                                          3958+RE115    DC    0F
0000318C                                          3959+         DROP  R5
0000318C  0FF00000 00000000                       3960          DC    XL16'0FF00000000000000000000000100B'   V1 source
00003194  00000000 0000100B
                                                  3961
                                                  3962          VRR_G VTPX,X'8048',0
000031A0                                          3963+         DS    0FD
000031A0                        000031A0          3964+         USING *,R5              base for test data and test routine
000031A0  000031BC                                3965+T116     DC    A(X116)           address of test routine
000031A4  0074                                    3966+         DC    H'116'            test number
000031A6  00                                      3967+         DC    XL1'00'
000031A7  00                                      3968+         DC    HL1'0'            cc
000031A8  07                                      3969+         DC    HL1'7'            cc failed mask
000031A9  E5E3D7E7 40404040                       3970+         DC    CL8'VTPX'         instruction name
000031B4  00000010                                3971+         DC    A(16)             result length
000031B8  000031D4                                3972+REA116   DC    A(RE116)          result address
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   3973+*                                INSTRUCTION UNDER TEST ROUTINE
000031BC                                           3974+X116     DS    0F
000031BC  E710 5034 0006                 000031D4  3975+         VL    V1,RE116          get V1 source

000031C2                                           3978+         DS    0H                      E65F VTP - Vector Test Decimal
000031C2  E6                                       3979+         DC    X'E6'
000031C3  01                                       3980+         DC    X'01'                   v1
000031C4  080480                                   3981+         DC    HL3'525440'             0, I3, RXB
000031C7  5F                                       3982+         DC    X'5F'

000031C8  B98D 0020                                3984+         EPSW  R2,R0             exptract psw
000031CC  5020 8E9C                      0000109C  3985+         ST    R2,CCPSW              to save CC
000031D0  07FB                                     3986+         BR    R11               return
000031D4                                           3987+RE116    DC    0F
000031D4                                           3988+         DROP  R5
000031D4  0FF00000 00000000                        3989          DC    XL16'0FF00000000000000000000000100C'   V1 source
000031DC  00000000 0000100C
                                                   3990
                                                   3991          VRR_G VTPX,X'804A',0
000031E8                                           3992+         DS    0FD
000031E8                       000031E8            3993+         USING *,R5              base for test data and test routine
000031E8  00003204                                 3994+T117     DC    A(X117)           address of test routine
000031EC  0075                                     3995+         DC    H'117'            test number
000031EE  00                                       3996+         DC    XL1'00'
000031EF  00                                       3997+         DC    HL1'0'            cc
000031F0  07                                       3998+         DC    HL1'7'            cc failed mask
000031F1  E5E3D7E7 40404040                        3999+         DC    CL8'VTPX'         instruction name
000031FC  00000010                                 4000+         DC    A(16)             result length
00003200  0000321C                                 4001+REA117   DC    A(RE117)          result address
                                                   4002+*                                INSTRUCTION UNDER TEST ROUTINE
00003204                                           4003+X117     DS    0F
00003204  E710 5034 0006                 0000321C  4004+         VL    V1,RE117          get V1 source

0000320A                                           4007+         DS    0H                      E65F VTP - Vector Test Decimal
0000320A  E6                                       4008+         DC    X'E6'
0000320B  01                                       4009+         DC    X'01'                   v1
0000320C  0804A0                                   4010+         DC    HL3'525472'             0, I3, RXB
0000320F  5F                                       4011+         DC    X'5F'

00003210  B98D 0020                                4013+         EPSW  R2,R0             exptract psw
00003214  5020 8E9C                      0000109C  4014+         ST    R2,CCPSW              to save CC
00003218  07FB                                     4015+         BR    R11               return
0000321C                                           4016+RE117    DC    0F
0000321C                                           4017+         DROP  R5
0000321C  0FF00000 00000000                        4018          DC    XL16'0FF00000000000000000000000100D'   V1 source
00003224  00000000 0000100D
                                                   4019
                                                   4020          VRR_G VTPX,X'804C',1
00003230                                           4021+         DS    0FD
00003230                       00003230            4022+         USING *,R5              base for test data and test routine
00003230  0000324C                                 4023+T118     DC    A(X118)           address of test routine
00003234  0076                                     4024+         DC    H'118'            test number
00003236  00                                       4025+         DC    XL1'00'
00003237  01                                       4026+         DC    HL1'1'            cc
00003238  0B                                       4027+         DC    HL1'11'           cc failed mask
00003239  E5E3D7E7 40404040                        4028+         DC    CL8'VTPX'         instruction name
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003244  00000010                                 4029+         DC    A(16)              result length
00003248  00003264                                 4030+REA118   DC    A(RE118)           result address
                                                   4031+*                                   INSTRUCTION UNDER TEST ROUTINE
0000324C                                           4032+X118     DS    0F
0000324C  E710 5034 0006                 00003264  4033+         VL    V1,RE118           get V1 source

00003252                                           4036+         DS    0H                       E65F VTP - Vector Test Decimal
00003252  E6                                       4037+         DC    X'E6'
00003253  01                                       4038+         DC    X'01'                    v1
00003254  0804C0                                   4039+         DC    HL3'525504'              0, I3, RXB
00003257  5F                                       4040+         DC    X'5F'

00003258  B98D 0020                                4042+         EPSW  R2,R0              exptract psw
0000325C  5020 8E9C                      0000109C  4043+         ST    R2,CCPSW               to save CC
00003260  07FB                                     4044+         BR    R11                return
00003264                                           4045+RE118    DC    0F
00003264                                           4046+         DROP  R5
00003264  0FF00000 00000000                        4047          DC    XL16'0FF00000000000000000000000100E'   V1 source
0000326C  00000000 0000100E
                                                   4048
                                                   4049          VRR_G VTPX,X'804E',1
00003278                                           4050+         DS    0FD
00003278                         00003278          4051+         USING *,R5               base for test data and test routine
00003278  00003294                                 4052+T119     DC    A(X119)            address of test routine
0000327C  0077                                     4053+         DC    H'119'             test number
0000327E  00                                       4054+         DC    XL1'00'
0000327F  01                                       4055+         DC    HL1'1'             cc
00003280  0B                                       4056+         DC    HL1'11'            cc failed mask
00003281  E5E3D7E7 40404040                        4057+         DC    CL8'VTPX'          instruction name
0000328C  00000010                                 4058+         DC    A(16)              result length
00003290  000032AC                                 4059+REA119   DC    A(RE119)           result address
                                                   4060+*                                   INSTRUCTION UNDER TEST ROUTINE
00003294                                           4061+X119     DS    0F
00003294  E710 5034 0006                 000032AC  4062+         VL    V1,RE119           get V1 source

0000329A                                           4065+         DS    0H                       E65F VTP - Vector Test Decimal
0000329A  E6                                       4066+         DC    X'E6'
0000329B  01                                       4067+         DC    X'01'                    v1
0000329C  0804E0                                   4068+         DC    HL3'525536'              0, I3, RXB
0000329F  5F                                       4069+         DC    X'5F'

000032A0  B98D 0020                                4071+         EPSW  R2,R0              exptract psw
000032A4  5020 8E9C                      0000109C  4072+         ST    R2,CCPSW               to save CC
000032A8  07FB                                     4073+         BR    R11                return
000032AC                                           4074+RE119    DC    0F
000032AC                                           4075+         DROP  R5
000032AC  0FF00000 00000000                        4076          DC    XL16'0FF00000000000000000000000100F'   V1 source
000032B4  00000000 0000100F
                                                   4077
                                                   4078          VRR_G VTPX,X'804E',1
000032C0                                           4079+         DS    0FD
000032C0                         000032C0          4080+         USING *,R5               base for test data and test routine
000032C0  000032DC                                 4081+T120     DC    A(X120)            address of test routine
000032C4  0078                                     4082+         DC    H'120'             test number
000032C6  00                                       4083+         DC    XL1'00'
000032C7  01                                       4084+         DC    HL1'1'             cc
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000032C8  0B                                       4085+         DC    HL1'11'           cc failed mask
000032C9  E5E3D7E7 40404040                        4086+         DC    CL8'VTPX'         instruction name
000032D4  00000010                                 4087+         DC    A(16)             result length
000032D8  000032F4                                 4088+REA120   DC    A(RE120)          result address
                                                   4089+*                                  INSTRUCTION UNDER TEST ROUTINE
000032DC                                           4090+X120     DS    0F
000032DC  E710 5034 0006                000032F4   4091+         VL    V1,RE120          get V1 source

000032E2                                           4094+         DS    0H                      E65F VTP - Vector Test Decimal
000032E2  E6                                       4095+         DC    X'E6'
000032E3  01                                       4096+         DC    X'01'                   v1
000032E4  0804E0                                   4097+         DC    HL3'525536'             0, I3, RXB
000032E7  5F                                       4098+         DC    X'5F'

000032E8  B98D 0020                                4100+         EPSW  R2,R0             exptract psw
000032EC  5020 8E9C                     0000109C   4101+         ST    R2,CCPSW              to save CC
000032F0  07FB                                     4102+         BR    R11               return
000032F4                                           4103+RE120    DC    0F
000032F4                                           4104+         DROP  R5
000032F4  0FF00000 00000000                        4105          DC    XL16'0FF00000000000000000000000001000'   V1 source
000032FC  00000000 00001000
                                                   4106
                                                   4107          VRR_G VTPX,X'804E',3
00003308                                           4108+         DS    0FD
00003308                        00003308           4109+         USING *,R5              base for test data and test routine
00003308  00003324                                 4110+T121     DC    A(X121)           address of test routine
0000330C  0079                                     4111+         DC    H'121'            test number
0000330E  00                                       4112+         DC    XL1'00'
0000330F  03                                       4113+         DC    HL1'3'            cc
00003310  0E                                       4114+         DC    HL1'14'           cc failed mask
00003311  E5E3D7E7 40404040                        4115+         DC    CL8'VTPX'         instruction name
0000331C  00000010                                 4116+         DC    A(16)             result length
00003320  0000333C                                 4117+REA121   DC    A(RE121)          result address
                                                   4118+*                                  INSTRUCTION UNDER TEST ROUTINE
00003324                                           4119+X121     DS    0F
00003324  E710 5034 0006                0000333C   4120+         VL    V1,RE121          get V1 source

0000332A                                           4123+         DS    0H                      E65F VTP - Vector Test Decimal
0000332A  E6                                       4124+         DC    X'E6'
0000332B  01                                       4125+         DC    X'01'                   v1
0000332C  0804E0                                   4126+         DC    HL3'525536'             0, I3, RXB
0000332F  5F                                       4127+         DC    X'5F'

00003330  B98D 0020                                4129+         EPSW  R2,R0             exptract psw
00003334  5020 8E9C                     0000109C   4130+         ST    R2,CCPSW              to save CC
00003338  07FB                                     4131+         BR    R11               return
0000333C                                           4132+RE121    DC    0F
0000333C                                           4133+         DROP  R5
0000333C  0FF00000 00000000                        4134          DC    XL16'0FF00000000000000000000000F00F'   V1 source
00003344  00000000 0000F00F
                                                   4135
                                                   4136          VRR_G VTPX,X'804E',3
00003350                                           4137+         DS    0FD
00003350                        00003350           4138+         USING *,R5              base for test data and test routine
00003350  0000336C                                 4139+T122     DC    A(X122)           address of test routine
00003354  007A                                     4140+         DC    H'122'            test number
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003356  00                                       4141+         DC    XL1'00'
00003357  03                                       4142+         DC    HL1'3'            cc
00003358  0E                                       4143+         DC    HL1'14'           cc failed mask
00003359  E5E3D7E7 40404040                        4144+         DC    CL8'VTPX'         instruction name
00003364  00000010                                 4145+         DC    A(16)             result length
00003368  00003384                                 4146+REA122   DC    A(RE122)          result address
                                                   4147+*                                  INSTRUCTION UNDER TEST ROUTINE
0000336C                                           4148+X122     DS    0F
0000336C  E710 5034 0006                00003384   4149+         VL    V1,RE122          get V1 source

00003372                                           4152+         DS    0H                      E65F VTP - Vector Test Decimal
00003372  E6                                       4153+         DC    X'E6'
00003373  01                                       4154+         DC    X'01'                   v1
00003374  0804E0                                   4155+         DC    HL3'525536'             0, I3, RXB
00003377  5F                                       4156+         DC    X'5F'

00003378  B98D 0020                                4158+         EPSW  R2,R0             exptract psw
0000337C  5020 8E9C                     0000109C   4159+         ST    R2,CCPSW              to save CC
00003380  07FB                                     4160+         BR    R11               return
00003384                                           4161+RE122    DC    0F
00003384                                           4162+         DROP  R5
00003384  0FF00000 00000000                        4163          DC    XL16'0FF0000000000000000000000000F009'   V1 source
0000338C  00000000 0000F009
                                                   4164
                                                   4165 * BTP=1, STC=2, DC>0 and even
                                                   4166 *                                  sign: C, D  valid, 0 digits
                                                   4167          VRR_G VTPX,X'C046',1
00003398                                           4168+         DS    0FD
00003398                        00003398           4169+         USING *,R5              base for test data and test routine
00003398  000033B4                                 4170+T123     DC    A(X123)           address of test routine
0000339C  007B                                     4171+         DC    H'123'            test number
0000339E  00                                       4172+         DC    XL1'00'
0000339F  01                                       4173+         DC    HL1'1'            cc
000033A0  0B                                       4174+         DC    HL1'11'           cc failed mask
000033A1  E5E3D7E7 40404040                        4175+         DC    CL8'VTPX'         instruction name
000033AC  00000010                                 4176+         DC    A(16)             result length
000033B0  000033CC                                 4177+REA123   DC    A(RE123)          result address
                                                   4178+*                                  INSTRUCTION UNDER TEST ROUTINE
000033B4                                           4179+X123     DS    0F
000033B4  E710 5034 0006                000033CC   4180+         VL    V1,RE123          get V1 source

000033BA                                           4183+         DS    0H                      E65F VTP - Vector Test Decimal
000033BA  E6                                       4184+         DC    X'E6'
000033BB  01                                       4185+         DC    X'01'                   v1
000033BC  0C0460                                   4186+         DC    HL3'787552'             0, I3, RXB
000033BF  5F                                       4187+         DC    X'5F'

000033C0  B98D 0020                                4189+         EPSW  R2,R0             exptract psw
000033C4  5020 8E9C                     0000109C   4190+         ST    R2,CCPSW              to save CC
000033C8  07FB                                     4191+         BR    R11               return
000033CC                                           4192+RE123    DC    0F
000033CC                                           4193+         DROP  R5
000033CC  0FF00000 00000000                        4194          DC    XL16'0FF0000000000000000000000000B'   V1 source
000033D4  00000000 0000000B
                                                   4195
                                                   4196          VRR_G VTPX,X'C04A',0
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000033E0                                           4197+         DS    0FD
000033E0                     000033E0              4198+         USING *,R5              base for test data and test routine
000033E0  000033FC                                 4199+T124     DC    A(X124)           address of test routine
000033E4  007C                                     4200+         DC    H'124'            test number
000033E6  00                                       4201+         DC    XL1'00'
000033E7  00                                       4202+         DC    HL1'0'            cc
000033E8  07                                       4203+         DC    HL1'7'            cc failed mask
000033E9  E5E3D7E7 40404040                        4204+         DC    CL8'VTPX'         instruction name
000033F4  00000010                                 4205+         DC    A(16)             result length
000033F8  00003414                                 4206+REA124   DC    A(RE124)          result address
                                                   4207+*                                  INSTRUCTION UNDER TEST ROUTINE
000033FC                                           4208+X124     DS    0F
000033FC  E710 5034 0006                00003414   4209+         VL    V1,RE124          get V1 source

00003402                                           4212+         DS    0H                      E65F VTP - Vector Test Decimal
00003402  E6                                       4213+         DC    X'E6'
00003403  01                                       4214+         DC    X'01'                   v1
00003404  0C04A0                                   4215+         DC    HL3'787616'             0, I3, RXB
00003407  5F                                       4216+         DC    X'5F'

00003408  B98D 0020                                4218+         EPSW  R2,R0             exptract psw
0000340C  5020 8E9C                     0000109C   4219+         ST    R2,CCPSW              to save CC
00003410  07FB                                     4220+         BR    R11               return
00003414                                           4221+RE124    DC    0F
00003414                                           4222+         DROP  R5
00003414  0FF00000 00000000                        4223          DC    XL16'0FF000000000000000000000000000D'   V1 source
0000341C  00000000 0000000D
                                                   4224
                                                   4225 *                                  sign: A-F valid, non-0 digits
                                                   4226          VRR_G VTPX,X'C044',1
00003428                                           4227+         DS    0FD
00003428                     00003428              4228+         USING *,R5              base for test data and test routine
00003428  00003444                                 4229+T125     DC    A(X125)           address of test routine
0000342C  007D                                     4230+         DC    H'125'            test number
0000342E  00                                       4231+         DC    XL1'00'
0000342F  01                                       4232+         DC    HL1'1'            cc
00003430  0B                                       4233+         DC    HL1'11'           cc failed mask
00003431  E5E3D7E7 40404040                        4234+         DC    CL8'VTPX'         instruction name
0000343C  00000010                                 4235+         DC    A(16)             result length
00003440  0000345C                                 4236+REA125   DC    A(RE125)          result address
                                                   4237+*                                  INSTRUCTION UNDER TEST ROUTINE
00003444                                           4238+X125     DS    0F
00003444  E710 5034 0006                0000345C   4239+         VL    V1,RE125          get V1 source

0000344A                                           4242+         DS    0H                      E65F VTP - Vector Test Decimal
0000344A  E6                                       4243+         DC    X'E6'
0000344B  01                                       4244+         DC    X'01'                   v1
0000344C  0C0440                                   4245+         DC    HL3'787520'             0, I3, RXB
0000344F  5F                                       4246+         DC    X'5F'

00003450  B98D 0020                                4248+         EPSW  R2,R0             exptract psw
00003454  5020 8E9C                     0000109C   4249+         ST    R2,CCPSW              to save CC
00003458  07FB                                     4250+         BR    R11               return
0000345C                                           4251+RE125    DC    0F
0000345C                                           4252+         DROP  R5
0000345C  0FF00000 00000000                        4253          DC    XL16'0FF000000000000000000000000100A'   V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003464  00000000 0000100A
                                                   4254
                                                   4255          VRR_G VTPX,X'C046',1
00003470                                           4256+         DS    0FD
00003470                     00003470              4257+         USING *,R5              base for test data and test routine
00003470  0000348C                                 4258+T126     DC    A(X126)           address of test routine
00003474  007E                                     4259+         DC    H'126'            test number
00003476  00                                       4260+         DC    XL1'00'
00003477  01                                       4261+         DC    HL1'1'            cc
00003478  0B                                       4262+         DC    HL1'11'           cc failed mask
00003479  E5E3D7E7 40404040                        4263+         DC    CL8'VTPX'         instruction name
00003484  00000010                                 4264+         DC    A(16)             result length
00003488  000034A4                                 4265+REA126   DC    A(RE126)          result address
                                                   4266+*                                  INSTRUCTION UNDER TEST ROUTINE
0000348C                                           4267+X126     DS    0F
0000348C  E710 5034 0006               000034A4    4268+         VL    V1,RE126          get V1 source

00003492                                           4271+         DS    0H                      E65F VTP - Vector Test Decimal
00003492  E6                                       4272+         DC    X'E6'
00003493  01                                       4273+         DC    X'01'                   v1
00003494  0C0460                                   4274+         DC    HL3'787552'             0, I3, RXB
00003497  5F                                       4275+         DC    X'5F'

00003498  B98D 0020                                4277+         EPSW  R2,R0             exptract psw
0000349C  5020 8E9C                    0000109C    4278+         ST    R2,CCPSW              to save CC
000034A0  07FB                                     4279+         BR    R11               return
000034A4                                           4280+RE126    DC    0F
000034A4                                           4281+         DROP  R5
000034A4  0FF00000 00000000                        4282          DC    XL16'0FF00000000000000000000000100B'   V1 source
000034AC  00000000 0000100B
                                                   4283
                                                   4284          VRR_G VTPX,X'C048',0
000034B8                                           4285+         DS    0FD
000034B8                     000034B8              4286+         USING *,R5              base for test data and test routine
000034B8  000034D4                                 4287+T127     DC    A(X127)           address of test routine
000034BC  007F                                     4288+         DC    H'127'            test number
000034BE  00                                       4289+         DC    XL1'00'
000034BF  00                                       4290+         DC    HL1'0'            cc
000034C0  07                                       4291+         DC    HL1'7'            cc failed mask
000034C1  E5E3D7E7 40404040                        4292+         DC    CL8'VTPX'         instruction name
000034CC  00000010                                 4293+         DC    A(16)             result length
000034D0  000034EC                                 4294+REA127   DC    A(RE127)          result address
                                                   4295+*                                  INSTRUCTION UNDER TEST ROUTINE
000034D4                                           4296+X127     DS    0F
000034D4  E710 5034 0006               000034EC    4297+         VL    V1,RE127          get V1 source

000034DA                                           4300+         DS    0H                      E65F VTP - Vector Test Decimal
000034DA  E6                                       4301+         DC    X'E6'
000034DB  01                                       4302+         DC    X'01'                   v1
000034DC  0C0480                                   4303+         DC    HL3'787584'             0, I3, RXB
000034DF  5F                                       4304+         DC    X'5F'

000034E0  B98D 0020                                4306+         EPSW  R2,R0             exptract psw
000034E4  5020 8E9C                    0000109C    4307+         ST    R2,CCPSW              to save CC
000034E8  07FB                                     4308+         BR    R11               return
000034EC                                           4309+RE127    DC    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000034EC                                           4310+         DROP  R5
000034EC  0FF00000 00000000                        4311          DC    XL16'0FF00000000000000000000000100C'   V1 source
000034F4  00000000 0000100C
                                                   4312
                                                   4313          VRR_G VTPX,X'C04A',0
00003500                                           4314+         DS    0FD
00003500                      00003500             4315+         USING *,R5              base for test data and test routine
00003500  0000351C                                 4316+T128     DC    A(X128)           address of test routine
00003504  0080                                     4317+         DC    H'128'            test number
00003506  00                                       4318+         DC    XL1'00'
00003507  00                                       4319+         DC    HL1'0'            cc
00003508  07                                       4320+         DC    HL1'7'            cc failed mask
00003509  E5E3D7E7 40404040                        4321+         DC    CL8'VTPX'         instruction name
00003514  00000010                                 4322+         DC    A(16)             result length
00003518  00003534                                 4323+REA128   DC    A(RE128)          result address
                                                   4324+*                                  INSTRUCTION UNDER TEST ROUTINE
0000351C                                           4325+X128     DS    0F
0000351C  E710 5034 0006                00003534   4326+         VL    V1,RE128          get V1 source

00003522                                           4329+         DS    0H                      E65F VTP - Vector Test Decimal
00003522  E6                                       4330+         DC    X'E6'
00003523  01                                       4331+         DC    X'01'                   v1
00003524  0C04A0                                   4332+         DC    HL3'787616'             0, I3, RXB
00003527  5F                                       4333+         DC    X'5F'

00003528  B98D 0020                                4335+         EPSW  R2,R0             exptract psw
0000352C  5020 8E9C                     0000109C   4336+         ST    R2,CCPSW                to save CC
00003530  07FB                                     4337+         BR    R11               return
00003534                                           4338+RE128    DC    0F
00003534                                           4339+         DROP  R5
00003534  0FF00000 00000000                        4340          DC    XL16'0FF00000000000000000000000100D'   V1 source
0000353C  00000000 0000100D
                                                   4341
                                                   4342          VRR_G VTPX,X'C04C',1
00003548                                           4343+         DS    0FD
00003548                      00003548             4344+         USING *,R5              base for test data and test routine
00003548  00003564                                 4345+T129     DC    A(X129)           address of test routine
0000354C  0081                                     4346+         DC    H'129'            test number
0000354E  00                                       4347+         DC    XL1'00'
0000354F  01                                       4348+         DC    HL1'1'            cc
00003550  0B                                       4349+         DC    HL1'11'           cc failed mask
00003551  E5E3D7E7 40404040                        4350+         DC    CL8'VTPX'         instruction name
0000355C  00000010                                 4351+         DC    A(16)             result length
00003560  0000357C                                 4352+REA129   DC    A(RE129)          result address
                                                   4353+*                                  INSTRUCTION UNDER TEST ROUTINE
00003564                                           4354+X129     DS    0F
00003564  E710 5034 0006                0000357C   4355+         VL    V1,RE129          get V1 source

0000356A                                           4358+         DS    0H                      E65F VTP - Vector Test Decimal
0000356A  E6                                       4359+         DC    X'E6'
0000356B  01                                       4360+         DC    X'01'                   v1
0000356C  0C04C0                                   4361+         DC    HL3'787648'             0, I3, RXB
0000356F  5F                                       4362+         DC    X'5F'

00003570  B98D 0020                                4364+         EPSW  R2,R0             exptract psw
00003574  5020 8E9C                     0000109C   4365+         ST    R2,CCPSW                to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003578  07FB                                     4366+         BR    R11                 return
0000357C                                           4367+RE129    DC    0F
0000357C                                           4368+         DROP  R5
0000357C  0FF00000 00000000                        4369          DC    XL16'0FF0000000000000000000000000100E'   V1 source
00003584  00000000 0000100E
                                                   4370
                                                   4371          VRR_G VTPX,X'C044',1
00003590                                           4372+         DS    0FD
00003590                      00003590             4373+         USING *,R5                base for test data and test routine
00003590  000035AC                                 4374+T130     DC    A(X130)             address of test routine
00003594  0082                                     4375+         DC    H'130'              test number
00003596  00                                       4376+         DC    XL1'00'
00003597  01                                       4377+         DC    HL1'1'              cc
00003598  0B                                       4378+         DC    HL1'11'             cc failed mask
00003599  E5E3D7E7 40404040                        4379+         DC    CL8'VTPX'           instruction name
000035A4  00000010                                 4380+         DC    A(16)               result length
000035A8  000035C4                                 4381+REA130   DC    A(RE130)            result address
                                                   4382+*                                    INSTRUCTION UNDER TEST ROUTINE
000035AC                                           4383+X130     DS    0F
000035AC  E710 5034 0006                000035C4   4384+         VL    V1,RE130            get V1 source

000035B2                                           4387+         DS    0H                        E65F VTP - Vector Test Decimal
000035B2  E6                                       4388+         DC    X'E6'
000035B3  01                                       4389+         DC    X'01'                     v1
000035B4  0C0440                                   4390+         DC    HL3'787520'               0, I3, RXB
000035B7  5F                                       4391+         DC    X'5F'

000035B8  B98D 0020                                4393+         EPSW  R2,R0               exptract psw
000035BC  5020 8E9C                     0000109C   4394+         ST    R2,CCPSW                to save CC
000035C0  07FB                                     4395+         BR    R11                 return
000035C4                                           4396+RE130    DC    0F
000035C4                                           4397+         DROP  R5
000035C4  0FF00000 00000000                        4398          DC    XL16'0FF0000000000000000000000001100F'   V1 source
000035CC  00000000 0001100F
                                                   4399
                                                   4400          VRR_G VTPX,X'C044',3
000035D8                                           4401+         DS    0FD
000035D8                      000035D8             4402+         USING *,R5                base for test data and test routine
000035D8  000035F4                                 4403+T131     DC    A(X131)             address of test routine
000035DC  0083                                     4404+         DC    H'131'              test number
000035DE  00                                       4405+         DC    XL1'00'
000035DF  03                                       4406+         DC    HL1'3'              cc
000035E0  0E                                       4407+         DC    HL1'14'             cc failed mask
000035E1  E5E3D7E7 40404040                        4408+         DC    CL8'VTPX'           instruction name
000035EC  00000010                                 4409+         DC    A(16)               result length
000035F0  0000360C                                 4410+REA131   DC    A(RE131)            result address
                                                   4411+*                                    INSTRUCTION UNDER TEST ROUTINE
000035F4                                           4412+X131     DS    0F
000035F4  E710 5034 0006                0000360C   4413+         VL    V1,RE131            get V1 source

000035FA                                           4416+         DS    0H                        E65F VTP - Vector Test Decimal
000035FA  E6                                       4417+         DC    X'E6'
000035FB  01                                       4418+         DC    X'01'                     v1
000035FC  0C0440                                   4419+         DC    HL3'787520'               0, I3, RXB
000035FF  5F                                       4420+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003600  B98D 0020                               4422+         EPSW  R2,R0              exptract psw
00003604  5020 8E9C                     0000109C  4423+         ST    R2,CCPSW              to save CC
00003608  07FB                                    4424+         BR    R11                return
0000360C                                          4425+RE131    DC    0F
0000360C                                          4426+         DROP  R5
0000360C  0FF00000 00000000                       4427          DC    XL16'0FF00000000000000000000011100F'   V1 source
00003614  00000000 0011100F
                                                  4428
                                                  4429          VRR_G VTPX,X'C044',1
00003620                                          4430+         DS    0FD
00003620                        00003620          4431+         USING *,R5               base for test data and test routine
00003620  0000363C                                4432+T132     DC    A(X132)            address of test routine
00003624  0084                                    4433+         DC    H'132'             test number
00003626  00                                      4434+         DC    XL1'00'
00003627  01                                      4435+         DC    HL1'1'             cc
00003628  0B                                      4436+         DC    HL1'11'            cc failed mask
00003629  E5E3D7E7 40404040                       4437+         DC    CL8'VTPX'          instruction name
00003634  00000010                                4438+         DC    A(16)              result length
00003638  00003654                                4439+REA132   DC    A(RE132)           result address
                                                  4440+*                                   INSTRUCTION UNDER TEST ROUTINE
0000363C                                          4441+X132     DS    0F
0000363C  E710 5034 0006                00003654  4442+         VL    V1,RE132           get V1 source

00003642                                          4445+         DS    0H                       E65F VTP - Vector Test Decimal
00003642  E6                                      4446+         DC    X'E6'
00003643  01                                      4447+         DC    X'01'                    v1
00003644  0C0440                                  4448+         DC    HL3'787520'              0, I3, RXB
00003647  5F                                      4449+         DC    X'5F'

00003648  B98D 0020                               4451+         EPSW  R2,R0              exptract psw
0000364C  5020 8E9C                     0000109C  4452+         ST    R2,CCPSW              to save CC
00003650  07FB                                    4453+         BR    R11                return
00003654                                          4454+RE132    DC    0F
00003654                                          4455+         DROP  R5
00003654  0FF00000 00000000                       4456          DC    XL16'0FF00000000000000000000011000'   V1 source
0000365C  00000000 00011000
                                                  4457
                                                  4458          VRR_G VTPX,X'C044',3
00003668                                          4459+         DS    0FD
00003668                        00003668          4460+         USING *,R5               base for test data and test routine
00003668  00003684                                4461+T133     DC    A(X133)            address of test routine
0000366C  0085                                    4462+         DC    H'133'             test number
0000366E  00                                      4463+         DC    XL1'00'
0000366F  03                                      4464+         DC    HL1'3'             cc
00003670  0E                                      4465+         DC    HL1'14'            cc failed mask
00003671  E5E3D7E7 40404040                       4466+         DC    CL8'VTPX'          instruction name
0000367C  00000010                                4467+         DC    A(16)              result length
00003680  0000369C                                4468+REA133   DC    A(RE133)           result address
                                                  4469+*                                   INSTRUCTION UNDER TEST ROUTINE
00003684                                          4470+X133     DS    0F
00003684  E710 5034 0006                0000369C  4471+         VL    V1,RE133           get V1 source

0000368A                                          4474+         DS    0H                       E65F VTP - Vector Test Decimal
0000368A  E6                                      4475+         DC    X'E6'
0000368B  01                                      4476+         DC    X'01'                    v1
0000368C  0C0440                                  4477+         DC    HL3'787520'              0, I3, RXB
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000368F  5F                                      4478+         DC    X'5F'

00003690  B98D 0020                               4480+         EPSW  R2,R0             exptract psw
00003694  5020 8E9C                     0000109C  4481+         ST    R2,CCPSW              to save CC
00003698  07FB                                    4482+         BR    R11               return
0000369C                                          4483+RE133    DC    0F
0000369C                                          4484+         DROP  R5
0000369C  0FF00000 00000000                       4485          DC    XL16'0FF00000000000000000000001F00F'   V1 source
000036A4  00000000 0001F00F
                                                  4486
                                                  4487          VRR_G VTPX,X'C044',3
000036B0                                          4488+         DS    0FD
000036B0                        000036B0          4489+         USING *,R5              base for test data and test routine
000036B0  000036CC                                4490+T134     DC    A(X134)           address of test routine
000036B4  0086                                    4491+         DC    H'134'            test number
000036B6  00                                      4492+         DC    XL1'00'
000036B7  03                                      4493+         DC    HL1'3'            cc
000036B8  0E                                      4494+         DC    HL1'14'           cc failed mask
000036B9  E5E3D7E7 40404040                       4495+         DC    CL8'VTPX'         instruction name
000036C4  00000010                                4496+         DC    A(16)             result length
000036C8  000036E4                                4497+REA134   DC    A(RE134)          result address
                                                  4498+*                                  INSTRUCTION UNDER TEST ROUTINE
000036CC                                          4499+X134     DS    0F
000036CC  E710 5034 0006                000036E4  4500+         VL    V1,RE134          get V1 source

000036D2                                          4503+         DS    0H                      E65F VTP - Vector Test Decimal
000036D2  E6                                      4504+         DC    X'E6'
000036D3  01                                      4505+         DC    X'01'                   v1
000036D4  0C0440                                  4506+         DC    HL3'787520'             0, I3, RXB
000036D7  5F                                      4507+         DC    X'5F'

000036D8  B98D 0020                               4509+         EPSW  R2,R0             exptract psw
000036DC  5020 8E9C                     0000109C  4510+         ST    R2,CCPSW              to save CC
000036E0  07FB                                    4511+         BR    R11               return
000036E4                                          4512+RE134    DC    0F
000036E4                                          4513+         DROP  R5
000036E4  0FF00000 00000000                       4514          DC    XL16'0FF00000000000000000000111009'   V1 source
000036EC  00000000 00111009
                                                  4515
                                                  4516 *-----------------------------------------------------------------
                                                  4517 *  Sign-Test Control: STC=3
                                                  4518 *-----------------------------------------------------------------
                                                  4519 * BTP=0, STC=3, DC=0                  only sign: C, D valid, no digits
                                                  4520          VRR_G VTPX,X'8060',1
000036F8                                          4521+         DS    0FD
000036F8                        000036F8          4522+         USING *,R5              base for test data and test routine
000036F8  00003714                                4523+T135     DC    A(X135)           address of test routine
000036FC  0087                                    4524+         DC    H'135'            test number
000036FE  00                                      4525+         DC    XL1'00'
000036FF  01                                      4526+         DC    HL1'1'            cc
00003700  0B                                      4527+         DC    HL1'11'           cc failed mask
00003701  E5E3D7E7 40404040                       4528+         DC    CL8'VTPX'         instruction name
0000370C  00000010                                4529+         DC    A(16)             result length
00003710  0000372C                                4530+REA135   DC    A(RE135)          result address
                                                  4531+*                                  INSTRUCTION UNDER TEST ROUTINE
00003714                                          4532+X135     DS    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003714  E710 5034 0006                0000372C   4533+         VL    V1,RE135          get V1 source

0000371A                                           4536+         DS    0H                      E65F VTP - Vector Test Decimal
0000371A  E6                                       4537+         DC    X'E6'
0000371B  01                                       4538+         DC    X'01'                   v1
0000371C  080600                                   4539+         DC    HL3'525824'             0, I3, RXB
0000371F  5F                                       4540+         DC    X'5F'

00003720  B98D 0020                                4542+         EPSW  R2,R0             exptract psw
00003724  5020 8E9C                     0000109C   4543+         ST    R2,CCPSW              to save CC
00003728  07FB                                     4544+         BR    R11               return
0000372C                                           4545+RE135    DC    0F
0000372C                                           4546+         DROP  R5
0000372C  0FF00000 00000000                        4547          DC    XL16'0FF00000000000000000000000000000A'   V1 source
00003734  00000000 0000000A
                                                   4548
                                                   4549          VRR_G VTPX,X'8060',1
00003740                                           4550+         DS    0FD
00003740                        00003740           4551+         USING *,R5              base for test data and test routine
00003740  0000375C                                 4552+T136     DC    A(X136)           address of test routine
00003744  0088                                     4553+         DC    H'136'            test number
00003746  00                                       4554+         DC    XL1'00'
00003747  01                                       4555+         DC    HL1'1'            cc
00003748  0B                                       4556+         DC    HL1'11'           cc failed mask
00003749  E5E3D7E7 40404040                        4557+         DC    CL8'VTPX'         instruction name
00003754  00000010                                 4558+         DC    A(16)             result length
00003758  00003774                                 4559+REA136   DC    A(RE136)          result address
                                                   4560+*                                  INSTRUCTION UNDER TEST ROUTINE
0000375C                                           4561+X136     DS    0F
0000375C  E710 5034 0006                00003774   4562+         VL    V1,RE136          get V1 source

00003762                                           4565+         DS    0H                      E65F VTP - Vector Test Decimal
00003762  E6                                       4566+         DC    X'E6'
00003763  01                                       4567+         DC    X'01'                   v1
00003764  080600                                   4568+         DC    HL3'525824'             0, I3, RXB
00003767  5F                                       4569+         DC    X'5F'

00003768  B98D 0020                                4571+         EPSW  R2,R0             exptract psw
0000376C  5020 8E9C                     0000109C   4572+         ST    R2,CCPSW              to save CC
00003770  07FB                                     4573+         BR    R11               return
00003774                                           4574+RE136    DC    0F
00003774                                           4575+         DROP  R5
00003774  0FF00000 00000000                        4576          DC    XL16'0FF00000000000000000000000000000B'   V1 source
0000377C  00000000 0000000B
                                                   4577
                                                   4578          VRR_G VTPX,X'8060',0
00003788                                           4579+         DS    0FD
00003788                        00003788           4580+         USING *,R5              base for test data and test routine
00003788  000037A4                                 4581+T137     DC    A(X137)           address of test routine
0000378C  0089                                     4582+         DC    H'137'            test number
0000378E  00                                       4583+         DC    XL1'00'
0000378F  00                                       4584+         DC    HL1'0'            cc
00003790  07                                       4585+         DC    HL1'7'            cc failed mask
00003791  E5E3D7E7 40404040                        4586+         DC    CL8'VTPX'         instruction name
0000379C  00000010                                 4587+         DC    A(16)             result length
000037A0  000037BC                                 4588+REA137   DC    A(RE137)          result address
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   4589+*                                INSTRUCTION UNDER TEST ROUTINE
000037A4                                           4590+X137     DS    0F
000037A4  E710 5034 0006                 000037BC  4591+         VL    V1,RE137          get V1 source

000037AA                                           4594+         DS    0H                      E65F VTP - Vector Test Decimal
000037AA  E6                                       4595+         DC    X'E6'
000037AB  01                                       4596+         DC    X'01'                   v1
000037AC  080600                                   4597+         DC    HL3'525824'             0, I3, RXB
000037AF  5F                                       4598+         DC    X'5F'

000037B0  B98D 0020                                4600+         EPSW  R2,R0             exptract psw
000037B4  5020 8E9C                      0000109C  4601+         ST    R2,CCPSW              to save CC
000037B8  07FB                                     4602+         BR    R11               return
000037BC                                           4603+RE137    DC    0F
000037BC                                           4604+         DROP  R5
000037BC  0FF00000 00000000                        4605          DC    XL16'0FF00000000000000000000000000000C'   V1 source
000037C4  00000000 0000000C
                                                   4606
                                                   4607          VRR_G VTPX,X'8060',0
000037D0                                           4608+         DS    0FD
000037D0                       000037D0            4609+         USING *,R5              base for test data and test routine
000037D0  000037EC                                 4610+T138     DC    A(X138)           address of test routine
000037D4  008A                                     4611+         DC    H'138'            test number
000037D6  00                                       4612+         DC    XL1'00'
000037D7  00                                       4613+         DC    HL1'0'            cc
000037D8  07                                       4614+         DC    HL1'7'            cc failed mask
000037D9  E5E3D7E7 40404040                        4615+         DC    CL8'VTPX'         instruction name
000037E4  00000010                                 4616+         DC    A(16)             result length
000037E8  00003804                                 4617+REA138   DC    A(RE138)          result address
                                                   4618+*                                INSTRUCTION UNDER TEST ROUTINE
000037EC                                           4619+X138     DS    0F
000037EC  E710 5034 0006                 00003804  4620+         VL    V1,RE138          get V1 source

000037F2                                           4623+         DS    0H                      E65F VTP - Vector Test Decimal
000037F2  E6                                       4624+         DC    X'E6'
000037F3  01                                       4625+         DC    X'01'                   v1
000037F4  080600                                   4626+         DC    HL3'525824'             0, I3, RXB
000037F7  5F                                       4627+         DC    X'5F'

000037F8  B98D 0020                                4629+         EPSW  R2,R0             exptract psw
000037FC  5020 8E9C                      0000109C  4630+         ST    R2,CCPSW              to save CC
00003800  07FB                                     4631+         BR    R11               return
00003804                                           4632+RE138    DC    0F
00003804                                           4633+         DROP  R5
00003804  0FF00000 00000000                        4634          DC    XL16'0FF00000000000000000000000000000D'   V1 source
0000380C  00000000 0000000D
                                                   4635
                                                   4636          VRR_G VTPX,X'8060',1
00003818                                           4637+         DS    0FD
00003818                       00003818            4638+         USING *,R5              base for test data and test routine
00003818  00003834                                 4639+T139     DC    A(X139)           address of test routine
0000381C  008B                                     4640+         DC    H'139'            test number
0000381E  00                                       4641+         DC    XL1'00'
0000381F  01                                       4642+         DC    HL1'1'            cc
00003820  0B                                       4643+         DC    HL1'11'           cc failed mask
00003821  E5E3D7E7 40404040                        4644+         DC    CL8'VTPX'         instruction name
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000382C  00000010                                 4645+         DC    A(16)              result length
00003830  0000384C                                 4646+REA139   DC    A(RE139)           result address
                                                   4647+*                                   INSTRUCTION UNDER TEST ROUTINE
00003834                                           4648+X139     DS    0F
00003834  E710 5034 0006                0000384C   4649+         VL    V1,RE139           get V1 source

0000383A                                           4652+         DS    0H                       E65F VTP - Vector Test Decimal
0000383A  E6                                       4653+         DC    X'E6'
0000383B  01                                       4654+         DC    X'01'                    v1
0000383C  080600                                   4655+         DC    HL3'525824'              0, I3, RXB
0000383F  5F                                       4656+         DC    X'5F'

00003840  B98D 0020                                4658+         EPSW  R2,R0              exptract psw
00003844  5020 8E9C                     0000109C   4659+         ST    R2,CCPSW               to save CC
00003848  07FB                                     4660+         BR    R11                return
0000384C                                           4661+RE139    DC    0F
0000384C                                           4662+         DROP  R5
0000384C  0FF00000 00000000                        4663          DC    XL16'0FF00000000000000000000000000E'   V1 source
00003854  00000000 0000000E
                                                   4664
                                                   4665          VRR_G VTPX,X'8060',1
00003860                                           4666+         DS    0FD
00003860                        00003860           4667+         USING *,R5               base for test data and test routine
00003860  0000387C                                 4668+T140     DC    A(X140)            address of test routine
00003864  008C                                     4669+         DC    H'140'             test number
00003866  00                                       4670+         DC    XL1'00'
00003867  01                                       4671+         DC    HL1'1'             cc
00003868  0B                                       4672+         DC    HL1'11'            cc failed mask
00003869  E5E3D7E7 40404040                        4673+         DC    CL8'VTPX'          instruction name
00003874  00000010                                 4674+         DC    A(16)              result length
00003878  00003894                                 4675+REA140   DC    A(RE140)           result address
                                                   4676+*                                   INSTRUCTION UNDER TEST ROUTINE
0000387C                                           4677+X140     DS    0F
0000387C  E710 5034 0006                00003894   4678+         VL    V1,RE140           get V1 source

00003882                                           4681+         DS    0H                       E65F VTP - Vector Test Decimal
00003882  E6                                       4682+         DC    X'E6'
00003883  01                                       4683+         DC    X'01'                    v1
00003884  080600                                   4684+         DC    HL3'525824'              0, I3, RXB
00003887  5F                                       4685+         DC    X'5F'

00003888  B98D 0020                                4687+         EPSW  R2,R0              exptract psw
0000388C  5020 8E9C                     0000109C   4688+         ST    R2,CCPSW               to save CC
00003890  07FB                                     4689+         BR    R11                return
00003894                                           4690+RE140    DC    0F
00003894                                           4691+         DROP  R5
00003894  0FF00000 00000000                        4692          DC    XL16'0FF00000000000000000000000000F'   V1 source
0000389C  00000000 0000000F
                                                   4693
                                                   4694          VRR_G VTPX,X'8060',1
000038A8                                           4695+         DS    0FD
000038A8                        000038A8           4696+         USING *,R5               base for test data and test routine
000038A8  000038C4                                 4697+T141     DC    A(X141)            address of test routine
000038AC  008D                                     4698+         DC    H'141'             test number
000038AE  00                                       4699+         DC    XL1'00'
000038AF  01                                       4700+         DC    HL1'1'             cc
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000038B0  0B                                       4701+         DC    HL1'11'           cc failed mask
000038B1  E5E3D7E7 40404040                        4702+         DC    CL8'VTPX'         instruction name
000038BC  00000010                                 4703+         DC    A(16)             result length
000038C0  000038DC                                 4704+REA141   DC    A(RE141)          result address
                                                   4705+*                                  INSTRUCTION UNDER TEST ROUTINE
000038C4                                           4706+X141     DS    0F
000038C4  E710 5034 0006                 000038DC  4707+         VL    V1,RE141          get V1 source

000038CA                                           4710+         DS    0H                      E65F VTP - Vector Test Decimal
000038CA  E6                                       4711+         DC    X'E6'
000038CB  01                                       4712+         DC    X'01'                   v1
000038CC  080600                                   4713+         DC    HL3'525824'             0, I3, RXB
000038CF  5F                                       4714+         DC    X'5F'

000038D0  B98D 0020                                4716+         EPSW  R2,R0             exptract psw
000038D4  5020 8E9C                      0000109C  4717+         ST    R2,CCPSW              to save CC
000038D8  07FB                                     4718+         BR    R11               return
000038DC                                           4719+RE141    DC    0F
000038DC                                           4720+         DROP  R5
000038DC  0FF00000 00000000                        4721          DC    XL16'0FF00000000000000000000000000000'   V1 source
000038E4  00000000 00000000
                                                   4722
                                                   4723          VRR_G VTPX,X'8060',1
000038F0                                           4724+         DS    0FD
000038F0                       000038F0            4725+         USING *,R5              base for test data and test routine
000038F0  0000390C                                 4726+T142     DC    A(X142)           address of test routine
000038F4  008E                                     4727+         DC    H'142'            test number
000038F6  00                                       4728+         DC    XL1'00'
000038F7  01                                       4729+         DC    HL1'1'            cc
000038F8  0B                                       4730+         DC    HL1'11'           cc failed mask
000038F9  E5E3D7E7 40404040                        4731+         DC    CL8'VTPX'         instruction name
00003904  00000010                                 4732+         DC    A(16)             result length
00003908  00003924                                 4733+REA142   DC    A(RE142)          result address
                                                   4734+*                                  INSTRUCTION UNDER TEST ROUTINE
0000390C                                           4735+X142     DS    0F
0000390C  E710 5034 0006                 00003924  4736+         VL    V1,RE142          get V1 source

00003912                                           4739+         DS    0H                      E65F VTP - Vector Test Decimal
00003912  E6                                       4740+         DC    X'E6'
00003913  01                                       4741+         DC    X'01'                   v1
00003914  080600                                   4742+         DC    HL3'525824'             0, I3, RXB
00003917  5F                                       4743+         DC    X'5F'

00003918  B98D 0020                                4745+         EPSW  R2,R0             exptract psw
0000391C  5020 8E9C                      0000109C  4746+         ST    R2,CCPSW              to save CC
00003920  07FB                                     4747+         BR    R11               return
00003924                                           4748+RE142    DC    0F
00003924                                           4749+         DROP  R5
00003924  0FF00000 00000000                        4750          DC    XL16'0FF00000000000000000000000000009'   V1 source
0000392C  00000000 00000009
                                                   4751
                                                   4752 * BTP=0, STC=3, DC>0 and odd
                                                   4753 *                                  sign: C  valid, 0 digits
                                                   4754          VRR_G VTPX,X'8067',0
00003938                                           4755+         DS    0FD
00003938                       00003938            4756+         USING *,R5              base for test data and test routine
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003938  00003954                                 4757+T143     DC    A(X143)           address of test routine
0000393C  008F                                     4758+         DC    H'143'            test number
0000393E  00                                       4759+         DC    XL1'00'
0000393F  00                                       4760+         DC    HL1'0'            cc
00003940  07                                       4761+         DC    HL1'7'            cc failed mask
00003941  E5E3D7E7 40404040                        4762+         DC    CL8'VTPX'         instruction name
0000394C  00000010                                 4763+         DC    A(16)             result length
00003950  0000396C                                 4764+REA143   DC    A(RE143)          result address
                                                   4765+*                                  INSTRUCTION UNDER TEST ROUTINE
00003954                                           4766+X143     DS    0F
00003954  E710 5034 0006                0000396C   4767+         VL    V1,RE143          get V1 source

0000395A                                           4770+         DS    0H                      E65F VTP - Vector Test Decimal
0000395A  E6                                       4771+         DC    X'E6'
0000395B  01                                       4772+         DC    X'01'                   v1
0000395C  080670                                   4773+         DC    HL3'525936'             0, I3, RXB
0000395F  5F                                       4774+         DC    X'5F'

00003960  B98D 0020                                4776+         EPSW  R2,R0             exptract psw
00003964  5020 8E9C                     0000109C   4777+         ST    R2,CCPSW              to save CC
00003968  07FB                                     4778+         BR    R11               return
0000396C                                           4779+RE143    DC    0F
0000396C                                           4780+         DROP  R5
0000396C  0FF00000 00000000                        4781          DC    XL16'0FF00000000000000000000000000000C'   V1 source
00003974  00000000 0000000C
                                                   4782
                                                   4783          VRR_G VTPX,X'806B',1
00003980                                           4784+         DS    0FD
00003980                        00003980           4785+         USING *,R5              base for test data and test routine
00003980  0000399C                                 4786+T144     DC    A(X144)           address of test routine
00003984  0090                                     4787+         DC    H'144'            test number
00003986  00                                       4788+         DC    XL1'00'
00003987  01                                       4789+         DC    HL1'1'            cc
00003988  0B                                       4790+         DC    HL1'11'           cc failed mask
00003989  E5E3D7E7 40404040                        4791+         DC    CL8'VTPX'         instruction name
00003994  00000010                                 4792+         DC    A(16)             result length
00003998  000039B4                                 4793+REA144   DC    A(RE144)          result address
                                                   4794+*                                  INSTRUCTION UNDER TEST ROUTINE
0000399C                                           4795+X144     DS    0F
0000399C  E710 5034 0006                000039B4   4796+         VL    V1,RE144          get V1 source

000039A2                                           4799+         DS    0H                      E65F VTP - Vector Test Decimal
000039A2  E6                                       4800+         DC    X'E6'
000039A3  01                                       4801+         DC    X'01'                   v1
000039A4  0806B0                                   4802+         DC    HL3'526000'             0, I3, RXB
000039A7  5F                                       4803+         DC    X'5F'

000039A8  B98D 0020                                4805+         EPSW  R2,R0             exptract psw
000039AC  5020 8E9C                     0000109C   4806+         ST    R2,CCPSW              to save CC
000039B0  07FB                                     4807+         BR    R11               return
000039B4                                           4808+RE144    DC    0F
000039B4                                           4809+         DROP  R5
000039B4  0FF00000 00000000                        4810          DC    XL16'0FF00000000000000000000000000000D'   V1 source
000039BC  00000000 0000000D
                                                   4811
                                                   4812          VRR_G VTPX,X'807F',2
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000039C8                                           4813+         DS    0FD
000039C8                     000039C8              4814+         USING *,R5              base for test data and test routine
000039C8  000039E4                                 4815+T145     DC    A(X145)           address of test routine
000039CC  0091                                     4816+         DC    H'145'            test number
000039CE  00                                       4817+         DC    XL1'00'
000039CF  02                                       4818+         DC    HL1'2'            cc
000039D0  0D                                       4819+         DC    HL1'13'           cc failed mask
000039D1  E5E3D7E7 40404040                        4820+         DC    CL8'VTPX'         instruction name
000039DC  00000010                                 4821+         DC    A(16)             result length
000039E0  000039FC                                 4822+REA145   DC    A(RE145)          result address
                                                   4823+*                                  INSTRUCTION UNDER TEST ROUTINE
000039E4                                           4824+X145     DS    0F
000039E4  E710 5034 0006                000039FC   4825+         VL    V1,RE145          get V1 source

000039EA                                           4828+         DS    0H                      E65F VTP - Vector Test Decimal
000039EA  E6                                       4829+         DC    X'E6'
000039EB  01                                       4830+         DC    X'01'                   v1
000039EC  0807F0                                   4831+         DC    HL3'526320'             0, I3, RXB
000039EF  5F                                       4832+         DC    X'5F'

000039F0  B98D 0020                                4834+         EPSW  R2,R0             exptract psw
000039F4  5020 8E9C                     0000109C   4835+         ST    R2,CCPSW              to save CC
000039F8  07FB                                     4836+         BR    R11               return
000039FC                                           4837+RE145    DC    0F
000039FC                                           4838+         DROP  R5
000039FC  F0000000 00000000                        4839          DC    XL16'F0000000000000000000000000000000'   V1 source
00003A04  00000000 0000000C
                                                   4840
                                                   4841 *                                  sign: C, D valid, non-0 digits
                                                   4842          VRR_G VTPX,X'8065',1
00003A10                                           4843+         DS    0FD
00003A10                     00003A10              4844+         USING *,R5              base for test data and test routine
00003A10  00003A2C                                 4845+T146     DC    A(X146)           address of test routine
00003A14  0092                                     4846+         DC    H'146'            test number
00003A16  00                                       4847+         DC    XL1'00'
00003A17  01                                       4848+         DC    HL1'1'            cc
00003A18  0B                                       4849+         DC    HL1'11'           cc failed mask
00003A19  E5E3D7E7 40404040                        4850+         DC    CL8'VTPX'         instruction name
00003A24  00000010                                 4851+         DC    A(16)             result length
00003A28  00003A44                                 4852+REA146   DC    A(RE146)          result address
                                                   4853+*                                  INSTRUCTION UNDER TEST ROUTINE
00003A2C                                           4854+X146     DS    0F
00003A2C  E710 5034 0006                00003A44   4855+         VL    V1,RE146          get V1 source

00003A32                                           4858+         DS    0H                      E65F VTP - Vector Test Decimal
00003A32  E6                                       4859+         DC    X'E6'
00003A33  01                                       4860+         DC    X'01'                   v1
00003A34  080650                                   4861+         DC    HL3'525904'             0, I3, RXB
00003A37  5F                                       4862+         DC    X'5F'

00003A38  B98D 0020                                4864+         EPSW  R2,R0             exptract psw
00003A3C  5020 8E9C                     0000109C   4865+         ST    R2,CCPSW              to save CC
00003A40  07FB                                     4866+         BR    R11               return
00003A44                                           4867+RE146    DC    0F
00003A44                                           4868+         DROP  R5
00003A44  0FF00000 00000000                        4869          DC    XL16'0FF0000000000000000000000100A'   V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003A4C  00000000 0000100A
                                                   4870
                                                   4871          VRR_G VTPX,X'8067',1
00003A58                                           4872+         DS    0FD
00003A58                       00003A58            4873+         USING *,R5              base for test data and test routine
00003A58  00003A74                                 4874+T147     DC    A(X147)           address of test routine
00003A5C  0093                                     4875+         DC    H'147'            test number
00003A5E  00                                       4876+         DC    XL1'00'
00003A5F  01                                       4877+         DC    HL1'1'            cc
00003A60  0B                                       4878+         DC    HL1'11'           cc failed mask
00003A61  E5E3D7E7 40404040                        4879+         DC    CL8'VTPX'         instruction name
00003A6C  00000010                                 4880+         DC    A(16)             result length
00003A70  00003A8C                                 4881+REA147   DC    A(RE147)          result address
                                                   4882+*                                  INSTRUCTION UNDER TEST ROUTINE
00003A74                                           4883+X147     DS    0F
00003A74  E710 5034 0006                00003A8C   4884+         VL    V1,RE147          get V1 source

00003A7A                                           4887+         DS    0H                      E65F VTP - Vector Test Decimal
00003A7A  E6                                       4888+         DC    X'E6'
00003A7B  01                                       4889+         DC    X'01'                   v1
00003A7C  080670                                   4890+         DC    HL3'525936'             0, I3, RXB
00003A7F  5F                                       4891+         DC    X'5F'

00003A80  B98D 0020                                4893+         EPSW  R2,R0             exptract psw
00003A84  5020 8E9C                     0000109C   4894+         ST    R2,CCPSW              to save CC
00003A88  07FB                                     4895+         BR    R11               return
00003A8C                                           4896+RE147    DC    0F
00003A8C                                           4897+         DROP  R5
00003A8C  0FF00000 00000000                        4898          DC    XL16'0FF00000000000000000000000100B'   V1 source
00003A94  00000000 0000100B
                                                   4899
                                                   4900          VRR_G VTPX,X'8069',0
00003AA0                                           4901+         DS    0FD
00003AA0                       00003AA0            4902+         USING *,R5              base for test data and test routine
00003AA0  00003ABC                                 4903+T148     DC    A(X148)           address of test routine
00003AA4  0094                                     4904+         DC    H'148'            test number
00003AA6  00                                       4905+         DC    XL1'00'
00003AA7  00                                       4906+         DC    HL1'0'            cc
00003AA8  07                                       4907+         DC    HL1'7'            cc failed mask
00003AA9  E5E3D7E7 40404040                        4908+         DC    CL8'VTPX'         instruction name
00003AB4  00000010                                 4909+         DC    A(16)             result length
00003AB8  00003AD4                                 4910+REA148   DC    A(RE148)          result address
                                                   4911+*                                  INSTRUCTION UNDER TEST ROUTINE
00003ABC                                           4912+X148     DS    0F
00003ABC  E710 5034 0006                00003AD4   4913+         VL    V1,RE148          get V1 source

00003AC2                                           4916+         DS    0H                      E65F VTP - Vector Test Decimal
00003AC2  E6                                       4917+         DC    X'E6'
00003AC3  01                                       4918+         DC    X'01'                   v1
00003AC4  080690                                   4919+         DC    HL3'525968'             0, I3, RXB
00003AC7  5F                                       4920+         DC    X'5F'

00003AC8  B98D 0020                                4922+         EPSW  R2,R0             exptract psw
00003ACC  5020 8E9C                     0000109C   4923+         ST    R2,CCPSW              to save CC
00003AD0  07FB                                     4924+         BR    R11               return
00003AD4                                           4925+RE148    DC    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003AD4                                           4926+         DROP  R5
00003AD4  0FF00000 00000000                        4927          DC    XL16'0FF00000000000000000000000100C'   V1 source
00003ADC  00000000 0000100C
                                                   4928
                                                   4929          VRR_G VTPX,X'806B',0
00003AE8                                           4930+         DS    0FD
00003AE8                      00003AE8             4931+         USING *,R5              base for test data and test routine
00003AE8  00003B04                                 4932+T149     DC    A(X149)           address of test routine
00003AEC  0095                                     4933+         DC    H'149'            test number
00003AEE  00                                       4934+         DC    XL1'00'
00003AEF  00                                       4935+         DC    HL1'0'            cc
00003AF0  07                                       4936+         DC    HL1'7'            cc failed mask
00003AF1  E5E3D7E7 40404040                        4937+         DC    CL8'VTPX'         instruction name
00003AFC  00000010                                 4938+         DC    A(16)             result length
00003B00  00003B1C                                 4939+REA149   DC    A(RE149)          result address
                                                   4940+*                                  INSTRUCTION UNDER TEST ROUTINE
00003B04                                           4941+X149     DS    0F
00003B04  E710 5034 0006                00003B1C   4942+         VL    V1,RE149          get V1 source

00003B0A                                           4945+         DS    0H                      E65F VTP - Vector Test Decimal
00003B0A  E6                                       4946+         DC    X'E6'
00003B0B  01                                       4947+         DC    X'01'                   v1
00003B0C  0806B0                                   4948+         DC    HL3'526000'             0, I3, RXB
00003B0F  5F                                       4949+         DC    X'5F'

00003B10  B98D 0020                                4951+         EPSW  R2,R0             exptract psw
00003B14  5020 8E9C                     0000109C   4952+         ST    R2,CCPSW                to save CC
00003B18  07FB                                     4953+         BR    R11               return
00003B1C                                           4954+RE149    DC    0F
00003B1C                                           4955+         DROP  R5
00003B1C  0FF00000 00000000                        4956          DC    XL16'0FF00000000000000000000000100D'   V1 source
00003B24  00000000 0000100D
                                                   4957
                                                   4958          VRR_G VTPX,X'806D',1
00003B30                                           4959+         DS    0FD
00003B30                      00003B30             4960+         USING *,R5              base for test data and test routine
00003B30  00003B4C                                 4961+T150     DC    A(X150)           address of test routine
00003B34  0096                                     4962+         DC    H'150'            test number
00003B36  00                                       4963+         DC    XL1'00'
00003B37  01                                       4964+         DC    HL1'1'            cc
00003B38  0B                                       4965+         DC    HL1'11'           cc failed mask
00003B39  E5E3D7E7 40404040                        4966+         DC    CL8'VTPX'         instruction name
00003B44  00000010                                 4967+         DC    A(16)             result length
00003B48  00003B64                                 4968+REA150   DC    A(RE150)          result address
                                                   4969+*                                  INSTRUCTION UNDER TEST ROUTINE
00003B4C                                           4970+X150     DS    0F
00003B4C  E710 5034 0006                00003B64   4971+         VL    V1,RE150          get V1 source

00003B52                                           4974+         DS    0H                      E65F VTP - Vector Test Decimal
00003B52  E6                                       4975+         DC    X'E6'
00003B53  01                                       4976+         DC    X'01'                   v1
00003B54  0806D0                                   4977+         DC    HL3'526032'             0, I3, RXB
00003B57  5F                                       4978+         DC    X'5F'

00003B58  B98D 0020                                4980+         EPSW  R2,R0             exptract psw
00003B5C  5020 8E9C                     0000109C   4981+         ST    R2,CCPSW                to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003B60  07FB                                     4982+         BR    R11                 return
00003B64                                           4983+RE150    DC    0F
00003B64                                           4984+         DROP  R5
00003B64  0FF00000 00000000                        4985          DC    XL16'0FF0000000000000000000000000100E'   V1 source
00003B6C  00000000 0000100E
                                                   4986
                                                   4987          VRR_G VTPX,X'806F',1
00003B78                                           4988+         DS    0FD
00003B78                      00003B78             4989+         USING *,R5                base for test data and test routine
00003B78  00003B94                                 4990+T151     DC    A(X151)             address of test routine
00003B7C  0097                                     4991+         DC    H'151'              test number
00003B7E  00                                       4992+         DC    XL1'00'
00003B7F  01                                       4993+         DC    HL1'1'              cc
00003B80  0B                                       4994+         DC    HL1'11'             cc failed mask
00003B81  E5E3D7E7 40404040                        4995+         DC    CL8'VTPX'           instruction name
00003B8C  00000010                                 4996+         DC    A(16)               result length
00003B90  00003BAC                                 4997+REA151   DC    A(RE151)            result address
                                                   4998+*                                    INSTRUCTION UNDER TEST ROUTINE
00003B94                                           4999+X151     DS    0F
00003B94  E710 5034 0006                00003BAC   5000+         VL    V1,RE151            get V1 source

00003B9A                                           5003+         DS    0H                        E65F VTP - Vector Test Decimal
00003B9A  E6                                       5004+         DC    X'E6'
00003B9B  01                                       5005+         DC    X'01'                     v1
00003B9C  0806F0                                   5006+         DC    HL3'526064'               0, I3, RXB
00003B9F  5F                                       5007+         DC    X'5F'

00003BA0  B98D 0020                                5009+         EPSW  R2,R0               exptract psw
00003BA4  5020 8E9C                     0000109C   5010+         ST    R2,CCPSW                to save CC
00003BA8  07FB                                     5011+         BR    R11                 return
00003BAC                                           5012+RE151    DC    0F
00003BAC                                           5013+         DROP  R5
00003BAC  0FF00000 00000000                        5014          DC    XL16'0FF0000000000000000000000000100F'   V1 source
00003BB4  00000000 0000100F
                                                   5015
                                                   5016          VRR_G VTPX,X'806F',1
00003BC0                                           5017+         DS    0FD
00003BC0                      00003BC0             5018+         USING *,R5                base for test data and test routine
00003BC0  00003BDC                                 5019+T152     DC    A(X152)             address of test routine
00003BC4  0098                                     5020+         DC    H'152'              test number
00003BC6  00                                       5021+         DC    XL1'00'
00003BC7  01                                       5022+         DC    HL1'1'              cc
00003BC8  0B                                       5023+         DC    HL1'11'             cc failed mask
00003BC9  E5E3D7E7 40404040                        5024+         DC    CL8'VTPX'           instruction name
00003BD4  00000010                                 5025+         DC    A(16)               result length
00003BD8  00003BF4                                 5026+REA152   DC    A(RE152)            result address
                                                   5027+*                                    INSTRUCTION UNDER TEST ROUTINE
00003BDC                                           5028+X152     DS    0F
00003BDC  E710 5034 0006                00003BF4   5029+         VL    V1,RE152            get V1 source

00003BE2                                           5032+         DS    0H                        E65F VTP - Vector Test Decimal
00003BE2  E6                                       5033+         DC    X'E6'
00003BE3  01                                       5034+         DC    X'01'                     v1
00003BE4  0806F0                                   5035+         DC    HL3'526064'               0, I3, RXB
00003BE7  5F                                       5036+         DC    X'5F'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003BE8  B98D 0020                               5038+         EPSW  R2,R0              exptract psw
00003BEC  5020 8E9C                     0000109C  5039+         ST    R2,CCPSW              to save CC
00003BF0  07FB                                    5040+         BR    R11               return
00003BF4                                          5041+RE152    DC    0F
00003BF4                                          5042+         DROP  R5
00003BF4  0FF00000 00000000                       5043          DC    XL16'0FF00000000000000000000000001000'   V1 source
00003BFC  00000000 00001000
                                                  5044
                                                  5045          VRR_G VTPX,X'806F',3
00003C08                                          5046+         DS    0FD
00003C08                        00003C08          5047+         USING *,R5               base for test data and test routine
00003C08  00003C24                                5048+T153     DC    A(X153)            address of test routine
00003C0C  0099                                    5049+         DC    H'153'             test number
00003C0E  00                                      5050+         DC    XL1'00'
00003C0F  03                                      5051+         DC    HL1'3'             cc
00003C10  0E                                      5052+         DC    HL1'14'            cc failed mask
00003C11  E5E3D7E7 40404040                       5053+         DC    CL8'VTPX'          instruction name
00003C1C  00000010                                5054+         DC    A(16)              result length
00003C20  00003C3C                                5055+REA153   DC    A(RE153)           result address
                                                  5056+*                                   INSTRUCTION UNDER TEST ROUTINE
00003C24                                          5057+X153     DS    0F
00003C24  E710 5034 0006                00003C3C  5058+         VL    V1,RE153           get V1 source

00003C2A                                          5061+         DS    0H                       E65F VTP - Vector Test Decimal
00003C2A  E6                                      5062+         DC    X'E6'
00003C2B  01                                      5063+         DC    X'01'                    v1
00003C2C  0806F0                                  5064+         DC    HL3'526064'              0, I3, RXB
00003C2F  5F                                      5065+         DC    X'5F'

00003C30  B98D 0020                               5067+         EPSW  R2,R0              exptract psw
00003C34  5020 8E9C                     0000109C  5068+         ST    R2,CCPSW              to save CC
00003C38  07FB                                    5069+         BR    R11               return
00003C3C                                          5070+RE153    DC    0F
00003C3C                                          5071+         DROP  R5
00003C3C  0FF00000 00000000                       5072          DC    XL16'0FF00000000000000000000000F00F'   V1 source
00003C44  00000000 0000F00F
                                                  5073
                                                  5074          VRR_G VTPX,X'806F',3
00003C50                                          5075+         DS    0FD
00003C50                        00003C50          5076+         USING *,R5               base for test data and test routine
00003C50  00003C6C                                5077+T154     DC    A(X154)            address of test routine
00003C54  009A                                    5078+         DC    H'154'             test number
00003C56  00                                      5079+         DC    XL1'00'
00003C57  03                                      5080+         DC    HL1'3'             cc
00003C58  0E                                      5081+         DC    HL1'14'            cc failed mask
00003C59  E5E3D7E7 40404040                       5082+         DC    CL8'VTPX'          instruction name
00003C64  00000010                                5083+         DC    A(16)              result length
00003C68  00003C84                                5084+REA154   DC    A(RE154)           result address
                                                  5085+*                                   INSTRUCTION UNDER TEST ROUTINE
00003C6C                                          5086+X154     DS    0F
00003C6C  E710 5034 0006                00003C84  5087+         VL    V1,RE154           get V1 source

00003C72                                          5090+         DS    0H                       E65F VTP - Vector Test Decimal
00003C72  E6                                      5091+         DC    X'E6'
00003C73  01                                      5092+         DC    X'01'                    v1
00003C74  0806F0                                  5093+         DC    HL3'526064'              0, I3, RXB
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003C77  5F                                      5094+         DC    X'5F'

00003C78  B98D 0020                               5096+         EPSW  R2,R0             exptract psw
00003C7C  5020 8E9C                     0000109C  5097+         ST    R2,CCPSW              to save CC
00003C80  07FB                                    5098+         BR    R11               return
00003C84                                          5099+RE154    DC    0F
00003C84                                          5100+         DROP  R5
00003C84  0FF00000 00000000                       5101          DC    XL16'0FF00000000000000000000000F009'   V1 source
00003C8C  00000000 0000F009
                                                  5102
                                                  5103          VRR_G VTPX,X'807F',1
00003C98                                          5104+         DS    0FD
00003C98                        00003C98          5105+         USING *,R5              base for test data and test routine
00003C98  00003CB4                                5106+T155     DC    A(X155)           address of test routine
00003C9C  009B                                    5107+         DC    H'155'            test number
00003C9E  00                                      5108+         DC    XL1'00'
00003C9F  01                                      5109+         DC    HL1'1'            cc
00003CA0  0B                                      5110+         DC    HL1'11'           cc failed mask
00003CA1  E5E3D7E7 40404040                       5111+         DC    CL8'VTPX'         instruction name
00003CAC  00000010                                5112+         DC    A(16)             result length
00003CB0  00003CCC                                5113+REA155   DC    A(RE155)          result address
                                                  5114+*                                  INSTRUCTION UNDER TEST ROUTINE
00003CB4                                          5115+X155     DS    0F
00003CB4  E710 5034 0006                00003CCC  5116+         VL    V1,RE155          get V1 source

00003CBA                                          5119+         DS    0H                      E65F VTP - Vector Test Decimal
00003CBA  E6                                      5120+         DC    X'E6'
00003CBB  01                                      5121+         DC    X'01'                   v1
00003CBC  0807F0                                  5122+         DC    HL3'526320'             0, I3, RXB
00003CBF  5F                                      5123+         DC    X'5F'

00003CC0  B98D 0020                               5125+         EPSW  R2,R0             exptract psw
00003CC4  5020 8E9C                     0000109C  5126+         ST    R2,CCPSW              to save CC
00003CC8  07FB                                    5127+         BR    R11               return
00003CCC                                          5128+RE155    DC    0F
00003CCC                                          5129+         DROP  R5
00003CCC  11000000 00000000                       5130          DC    XL16'11000000000000000000000000000000B'   V1 source
00003CD4  00000000 0000000B
                                                  5131
                                                  5132 * BTP=0, STC=3, DC>0 and even
                                                  5133 *                                  sign: C valid, 0 digits
                                                  5134          VRR_G VTPX,X'8066',1
00003CE0                                          5135+         DS    0FD
00003CE0                        00003CE0          5136+         USING *,R5              base for test data and test routine
00003CE0  00003CFC                                5137+T156     DC    A(X156)           address of test routine
00003CE4  009C                                    5138+         DC    H'156'            test number
00003CE6  00                                      5139+         DC    XL1'00'
00003CE7  01                                      5140+         DC    HL1'1'            cc
00003CE8  0B                                      5141+         DC    HL1'11'           cc failed mask
00003CE9  E5E3D7E7 40404040                       5142+         DC    CL8'VTPX'         instruction name
00003CF4  00000010                                5143+         DC    A(16)             result length
00003CF8  00003D14                                5144+REA156   DC    A(RE156)          result address
                                                  5145+*                                  INSTRUCTION UNDER TEST ROUTINE
00003CFC                                          5146+X156     DS    0F
00003CFC  E710 5034 0006                00003D14  5147+         VL    V1,RE156          get V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003D02                                           5150+         DS    0H                      E65F VTP - Vector Test Decimal
00003D02  E6                                       5151+         DC    X'E6'
00003D03  01                                       5152+         DC    X'01'                   v1
00003D04  080660                                   5153+         DC    HL3'525920'             0, I3, RXB
00003D07  5F                                       5154+         DC    X'5F'

00003D08  B98D 0020                                5156+         EPSW  R2,R0             exptract psw
00003D0C  5020 8E9C                     0000109C   5157+         ST    R2,CCPSW              to save CC
00003D10  07FB                                     5158+         BR    R11               return
00003D14                                           5159+RE156    DC    0F
00003D14                                           5160+         DROP  R5
00003D14  0FF00000 00000000                        5161          DC    XL16'0FF00000000000000000000000000B'   V1 source
00003D1C  00000000 0000000B
                                                   5162
                                                   5163          VRR_G VTPX,X'806A',0
00003D28                                           5164+         DS    0FD
00003D28                        00003D28           5165+         USING *,R5              base for test data and test routine
00003D28  00003D44                                 5166+T157     DC    A(X157)           address of test routine
00003D2C  009D                                     5167+         DC    H'157'            test number
00003D2E  00                                       5168+         DC    XL1'00'
00003D2F  00                                       5169+         DC    HL1'0'            cc
00003D30  07                                       5170+         DC    HL1'7'            cc failed mask
00003D31  E5E3D7E7 40404040                        5171+         DC    CL8'VTPX'         instruction name
00003D3C  00000010                                 5172+         DC    A(16)             result length
00003D40  00003D5C                                 5173+REA157   DC    A(RE157)          result address
                                                   5174+*                                  INSTRUCTION UNDER TEST ROUTINE
00003D44                                           5175+X157     DS    0F
00003D44  E710 5034 0006                00003D5C   5176+         VL    V1,RE157          get V1 source

00003D4A                                           5179+         DS    0H                      E65F VTP - Vector Test Decimal
00003D4A  E6                                       5180+         DC    X'E6'
00003D4B  01                                       5181+         DC    X'01'                   v1
00003D4C  0806A0                                   5182+         DC    HL3'525984'             0, I3, RXB
00003D4F  5F                                       5183+         DC    X'5F'

00003D50  B98D 0020                                5185+         EPSW  R2,R0             exptract psw
00003D54  5020 8E9C                     0000109C   5186+         ST    R2,CCPSW              to save CC
00003D58  07FB                                     5187+         BR    R11               return
00003D5C                                           5188+RE157    DC    0F
00003D5C                                           5189+         DROP  R5
00003D5C  0FF00000 00000000                        5190          DC    XL16'0FF00000000000000000000000000C'   V1 source
00003D64  00000000 0000000C
                                                   5191
                                                   5192          VRR_G VTPX,X'806A',1
00003D70                                           5193+         DS    0FD
00003D70                        00003D70           5194+         USING *,R5              base for test data and test routine
00003D70  00003D8C                                 5195+T158     DC    A(X158)           address of test routine
00003D74  009E                                     5196+         DC    H'158'            test number
00003D76  00                                       5197+         DC    XL1'00'
00003D77  01                                       5198+         DC    HL1'1'            cc
00003D78  0B                                       5199+         DC    HL1'11'           cc failed mask
00003D79  E5E3D7E7 40404040                        5200+         DC    CL8'VTPX'         instruction name
00003D84  00000010                                 5201+         DC    A(16)             result length
00003D88  00003DA4                                 5202+REA158   DC    A(RE158)          result address
                                                   5203+*                                  INSTRUCTION UNDER TEST ROUTINE
00003D8C                                           5204+X158     DS    0F
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003D8C  E710 5034 0006                00003DA4  5205+         VL    V1,RE158          get V1 source

00003D92                                          5208+         DS    0H                      E65F VTP - Vector Test Decimal
00003D92  E6                                      5209+         DC    X'E6'
00003D93  01                                      5210+         DC    X'01'                   v1
00003D94  0806A0                                  5211+         DC    HL3'525984'             0, I3, RXB
00003D97  5F                                      5212+         DC    X'5F'

00003D98  B98D 0020                               5214+         EPSW  R2,R0             exptract psw
00003D9C  5020 8E9C                     0000109C  5215+         ST    R2,CCPSW              to save CC
00003DA0  07FB                                    5216+         BR    R11               return
00003DA4                                          5217+RE158    DC    0F
00003DA4                                          5218+         DROP  R5
00003DA4  0FF00000 00000000                       5219          DC    XL16'0FF00000000000000000000000000D'   V1 source
00003DAC  00000000 0000000D
                                                  5220
                                                  5221 *                                sign: C, D valid, non-0 digits
                                                  5222          VRR_G VTPX,X'8064',1
00003DB8                                          5223+         DS    0FD
00003DB8                        00003DB8          5224+         USING *,R5              base for test data and test routine
00003DB8  00003DD4                                5225+T159     DC    A(X159)           address of test routine
00003DBC  009F                                    5226+         DC    H'159'            test number
00003DBE  00                                      5227+         DC    XL1'00'
00003DBF  01                                      5228+         DC    HL1'1'            cc
00003DC0  0B                                      5229+         DC    HL1'11'           cc failed mask
00003DC1  E5E3D7E7 40404040                       5230+         DC    CL8'VTPX'         instruction name
00003DCC  00000010                                5231+         DC    A(16)             result length
00003DD0  00003DEC                                5232+REA159   DC    A(RE159)          result address
                                                  5233+*                                  INSTRUCTION UNDER TEST ROUTINE
00003DD4                                          5234+X159     DS    0F
00003DD4  E710 5034 0006                00003DEC  5235+         VL    V1,RE159          get V1 source

00003DDA                                          5238+         DS    0H                      E65F VTP - Vector Test Decimal
00003DDA  E6                                      5239+         DC    X'E6'
00003DDB  01                                      5240+         DC    X'01'                   v1
00003DDC  080640                                  5241+         DC    HL3'525888'             0, I3, RXB
00003DDF  5F                                      5242+         DC    X'5F'

00003DE0  B98D 0020                               5244+         EPSW  R2,R0             exptract psw
00003DE4  5020 8E9C                     0000109C  5245+         ST    R2,CCPSW              to save CC
00003DE8  07FB                                    5246+         BR    R11               return
00003DEC                                          5247+RE159    DC    0F
00003DEC                                          5248+         DROP  R5
00003DEC  0FF00000 00000000                       5249          DC    XL16'0FF00000000000000000000000100A'   V1 source
00003DF4  00000000 0000100A
                                                  5250
                                                  5251          VRR_G VTPX,X'8066',1
00003E00                                          5252+         DS    0FD
00003E00                        00003E00          5253+         USING *,R5              base for test data and test routine
00003E00  00003E1C                                5254+T160     DC    A(X160)           address of test routine
00003E04  00A0                                    5255+         DC    H'160'            test number
00003E06  00                                      5256+         DC    XL1'00'
00003E07  01                                      5257+         DC    HL1'1'            cc
00003E08  0B                                      5258+         DC    HL1'11'           cc failed mask
00003E09  E5E3D7E7 40404040                       5259+         DC    CL8'VTPX'         instruction name
00003E14  00000010                                5260+         DC    A(16)             result length
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003E18  00003E34                                 5261+REA160   DC    A(RE160)          result address
                                                   5262+*                                INSTRUCTION UNDER TEST ROUTINE
00003E1C                                           5263+X160     DS    0F
00003E1C  E710 5034 0006                00003E34   5264+         VL    V1,RE160          get V1 source

00003E22                                           5267+         DS    0H                      E65F VTP - Vector Test Decimal
00003E22  E6                                       5268+         DC    X'E6'
00003E23  01                                       5269+         DC    X'01'                   v1
00003E24  080660                                   5270+         DC    HL3'525920'             0, I3, RXB
00003E27  5F                                       5271+         DC    X'5F'

00003E28  B98D 0020                                5273+         EPSW  R2,R0             exptract psw
00003E2C  5020 8E9C                     0000109C   5274+         ST    R2,CCPSW              to save CC
00003E30  07FB                                     5275+         BR    R11               return
00003E34                                           5276+RE160    DC    0F
00003E34                                           5277+         DROP  R5
00003E34  0FF00000 00000000                        5278          DC    XL16'0FF00000000000000000000000100B'   V1 source
00003E3C  00000000 0000100B
                                                   5279
                                                   5280          VRR_G VTPX,X'8068',0
00003E48                                           5281+         DS    0FD
00003E48                        00003E48           5282+         USING *,R5              base for test data and test routine
00003E48  00003E64                                 5283+T161     DC    A(X161)           address of test routine
00003E4C  00A1                                     5284+         DC    H'161'            test number
00003E4E  00                                       5285+         DC    XL1'00'
00003E4F  00                                       5286+         DC    HL1'0'            cc
00003E50  07                                       5287+         DC    HL1'7'            cc failed mask
00003E51  E5E3D7E7 40404040                        5288+         DC    CL8'VTPX'         instruction name
00003E5C  00000010                                 5289+         DC    A(16)             result length
00003E60  00003E7C                                 5290+REA161   DC    A(RE161)          result address
                                                   5291+*                                INSTRUCTION UNDER TEST ROUTINE
00003E64                                           5292+X161     DS    0F
00003E64  E710 5034 0006                00003E7C   5293+         VL    V1,RE161          get V1 source

00003E6A                                           5296+         DS    0H                      E65F VTP - Vector Test Decimal
00003E6A  E6                                       5297+         DC    X'E6'
00003E6B  01                                       5298+         DC    X'01'                   v1
00003E6C  080680                                   5299+         DC    HL3'525952'             0, I3, RXB
00003E6F  5F                                       5300+         DC    X'5F'

00003E70  B98D 0020                                5302+         EPSW  R2,R0             exptract psw
00003E74  5020 8E9C                     0000109C   5303+         ST    R2,CCPSW              to save CC
00003E78  07FB                                     5304+         BR    R11               return
00003E7C                                           5305+RE161    DC    0F
00003E7C                                           5306+         DROP  R5
00003E7C  0FF00000 00000000                        5307          DC    XL16'0FF00000000000000000000000100C'   V1 source
00003E84  00000000 0000100C
                                                   5308
                                                   5309          VRR_G VTPX,X'806A',0
00003E90                                           5310+         DS    0FD
00003E90                        00003E90           5311+         USING *,R5              base for test data and test routine
00003E90  00003EAC                                 5312+T162     DC    A(X162)           address of test routine
00003E94  00A2                                     5313+         DC    H'162'            test number
00003E96  00                                       5314+         DC    XL1'00'
00003E97  00                                       5315+         DC    HL1'0'            cc
00003E98  07                                       5316+         DC    HL1'7'            cc failed mask
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003E99  E5E3D7E7 40404040                         5317+         DC    CL8'VTPX'         instruction name
00003EA4  00000010                                  5318+         DC    A(16)             result length
00003EA8  00003EC4                                  5319+REA162   DC    A(RE162)          result address
                                                    5320+*                                  INSTRUCTION UNDER TEST ROUTINE
00003EAC                                            5321+X162     DS    0F
00003EAC  E710 5034 0006                 00003EC4   5322+         VL    V1,RE162          get V1 source

00003EB2                                            5325+         DS    0H                      E65F VTP - Vector Test Decimal
00003EB2  E6                                        5326+         DC    X'E6'
00003EB3  01                                        5327+         DC    X'01'                   v1
00003EB4  0806A0                                    5328+         DC    HL3'525984'             0, I3, RXB
00003EB7  5F                                        5329+         DC    X'5F'

00003EB8  B98D 0020                                 5331+         EPSW  R2,R0             exptract psw
00003EBC  5020 8E9C                      0000109C   5332+         ST    R2,CCPSW              to save CC
00003EC0  07FB                                      5333+         BR    R11               return
00003EC4                                            5334+RE162    DC    0F
00003EC4                                            5335+         DROP  R5
00003EC4  0FF00000 00000000                         5336          DC    XL16'0FF00000000000000000000000100D'   V1 source
00003ECC  00000000 0000100D
                                                    5337
                                                    5338          VRR_G VTPX,X'806C',1
00003ED8                                            5339+         DS    0FD
00003ED8                       00003ED8             5340+         USING *,R5              base for test data and test routine
00003ED8  00003EF4                                  5341+T163     DC    A(X163)           address of test routine
00003EDC  00A3                                      5342+         DC    H'163'            test number
00003EDE  00                                        5343+         DC    XL1'00'
00003EDF  01                                        5344+         DC    HL1'1'            cc
00003EE0  0B                                        5345+         DC    HL1'11'           cc failed mask
00003EE1  E5E3D7E7 40404040                         5346+         DC    CL8'VTPX'         instruction name
00003EEC  00000010                                  5347+         DC    A(16)             result length
00003EF0  00003F0C                                  5348+REA163   DC    A(RE163)          result address
                                                    5349+*                                  INSTRUCTION UNDER TEST ROUTINE
00003EF4                                            5350+X163     DS    0F
00003EF4  E710 5034 0006                 00003F0C   5351+         VL    V1,RE163          get V1 source

00003EFA                                            5354+         DS    0H                      E65F VTP - Vector Test Decimal
00003EFA  E6                                        5355+         DC    X'E6'
00003EFB  01                                        5356+         DC    X'01'                   v1
00003EFC  0806C0                                    5357+         DC    HL3'526016'             0, I3, RXB
00003EFF  5F                                        5358+         DC    X'5F'

00003F00  B98D 0020                                 5360+         EPSW  R2,R0             exptract psw
00003F04  5020 8E9C                      0000109C   5361+         ST    R2,CCPSW              to save CC
00003F08  07FB                                      5362+         BR    R11               return
00003F0C                                            5363+RE163    DC    0F
00003F0C                                            5364+         DROP  R5
00003F0C  0FF00000 00000000                         5365          DC    XL16'0FF00000000000000000000000100E'   V1 source
00003F14  00000000 0000100E
                                                    5366
                                                    5367          VRR_G VTPX,X'806E',1
00003F20                                            5368+         DS    0FD
00003F20                       00003F20             5369+         USING *,R5              base for test data and test routine
00003F20  00003F3C                                  5370+T164     DC    A(X164)           address of test routine
00003F24  00A4                                      5371+         DC    H'164'            test number
00003F26  00                                        5372+         DC    XL1'00'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003F27  01                                       5373+         DC    HL1'1'            cc
00003F28  0B                                       5374+         DC    HL1'11'           cc failed mask
00003F29  E5E3D7E7 40404040                        5375+         DC    CL8'VTPX'         instruction name
00003F34  00000010                                 5376+         DC    A(16)             result length
00003F38  00003F54                                 5377+REA164   DC    A(RE164)          result address
                                                   5378+*                                  INSTRUCTION UNDER TEST ROUTINE
00003F3C                                           5379+X164     DS    0F
00003F3C  E710 5034 0006                00003F54   5380+         VL    V1,RE164          get V1 source

00003F42                                           5383+         DS    0H                      E65F VTP - Vector Test Decimal
00003F42  E6                                       5384+         DC    X'E6'
00003F43  01                                       5385+         DC    X'01'                   v1
00003F44  0806E0                                   5386+         DC    HL3'526048'             0, I3, RXB
00003F47  5F                                       5387+         DC    X'5F'

00003F48  B98D 0020                                5389+         EPSW  R2,R0             exptract psw
00003F4C  5020 8E9C                     0000109C   5390+         ST    R2,CCPSW              to save CC
00003F50  07FB                                     5391+         BR    R11               return
00003F54                                           5392+RE164    DC    0F
00003F54                                           5393+         DROP  R5
00003F54  0FF00000 00000000                        5394          DC    XL16'0FF00000000000000000000000100F'   V1 source
00003F5C  00000000 0000100F
                                                   5395
                                                   5396          VRR_G VTPX,X'806E',1
00003F68                                           5397+         DS    0FD
00003F68                      00003F68             5398+         USING *,R5              base for test data and test routine
00003F68  00003F84                                 5399+T165     DC    A(X165)           address of test routine
00003F6C  00A5                                     5400+         DC    H'165'            test number
00003F6E  00                                       5401+         DC    XL1'00'
00003F6F  01                                       5402+         DC    HL1'1'            cc
00003F70  0B                                       5403+         DC    HL1'11'           cc failed mask
00003F71  E5E3D7E7 40404040                        5404+         DC    CL8'VTPX'         instruction name
00003F7C  00000010                                 5405+         DC    A(16)             result length
00003F80  00003F9C                                 5406+REA165   DC    A(RE165)          result address
                                                   5407+*                                  INSTRUCTION UNDER TEST ROUTINE
00003F84                                           5408+X165     DS    0F
00003F84  E710 5034 0006                00003F9C   5409+         VL    V1,RE165          get V1 source

00003F8A                                           5412+         DS    0H                      E65F VTP - Vector Test Decimal
00003F8A  E6                                       5413+         DC    X'E6'
00003F8B  01                                       5414+         DC    X'01'                   v1
00003F8C  0806E0                                   5415+         DC    HL3'526048'             0, I3, RXB
00003F8F  5F                                       5416+         DC    X'5F'

00003F90  B98D 0020                                5418+         EPSW  R2,R0             exptract psw
00003F94  5020 8E9C                     0000109C   5419+         ST    R2,CCPSW              to save CC
00003F98  07FB                                     5420+         BR    R11               return
00003F9C                                           5421+RE165    DC    0F
00003F9C                                           5422+         DROP  R5
00003F9C  0FF00000 00000000                        5423          DC    XL16'0FF00000000000000000000001000'   V1 source
00003FA4  00000000 00001000
                                                   5424
                                                   5425          VRR_G VTPX,X'806E',3
00003FB0                                           5426+         DS    0FD
00003FB0                      00003FB0             5427+         USING *,R5              base for test data and test routine
00003FB0  00003FCC                                 5428+T166     DC    A(X166)           address of test routine
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003FB4  00A6                                     5429+         DC    H'166'            test number
00003FB6  00                                       5430+         DC    XL1'00'
00003FB7  03                                       5431+         DC    HL1'3'            cc
00003FB8  0E                                       5432+         DC    HL1'14'           cc failed mask
00003FB9  E5E3D7E7 40404040                        5433+         DC    CL8'VTPX'         instruction name
00003FC4  00000010                                 5434+         DC    A(16)             result length
00003FC8  00003FE4                                 5435+REA166   DC    A(RE166)          result address
                                                   5436+*                                  INSTRUCTION UNDER TEST ROUTINE
00003FCC                                           5437+X166     DS    0F
00003FCC  E710 5034 0006                00003FE4   5438+         VL    V1,RE166          get V1 source

00003FD2                                           5441+         DS    0H                      E65F VTP - Vector Test Decimal
00003FD2  E6                                       5442+         DC    X'E6'
00003FD3  01                                       5443+         DC    X'01'                   v1
00003FD4  0806E0                                   5444+         DC    HL3'526048'             0, I3, RXB
00003FD7  5F                                       5445+         DC    X'5F'

00003FD8  B98D 0020                                5447+         EPSW  R2,R0             exptract psw
00003FDC  5020 8E9C                     0000109C   5448+         ST    R2,CCPSW              to save CC
00003FE0  07FB                                     5449+         BR    R11               return
00003FE4                                           5450+RE166    DC    0F
00003FE4                                           5451+         DROP  R5
00003FE4  0FF00000 00000000                        5452          DC    XL16'0FF0000000000000000000000000F00F'   V1 source
00003FEC  00000000 0000F00F
                                                   5453
                                                   5454          VRR_G VTPX,X'806E',3
00003FF8                                           5455+         DS    0FD
00003FF8                        00003FF8           5456+         USING *,R5              base for test data and test routine
00003FF8  00004014                                 5457+T167     DC    A(X167)           address of test routine
00003FFC  00A7                                     5458+         DC    H'167'            test number
00003FFE  00                                       5459+         DC    XL1'00'
00003FFF  03                                       5460+         DC    HL1'3'            cc
00004000  0E                                       5461+         DC    HL1'14'           cc failed mask
00004001  E5E3D7E7 40404040                        5462+         DC    CL8'VTPX'         instruction name
0000400C  00000010                                 5463+         DC    A(16)             result length
00004010  0000402C                                 5464+REA167   DC    A(RE167)          result address
                                                   5465+*                                  INSTRUCTION UNDER TEST ROUTINE
00004014                                           5466+X167     DS    0F
00004014  E710 5034 0006                0000402C   5467+         VL    V1,RE167          get V1 source

0000401A                                           5470+         DS    0H                      E65F VTP - Vector Test Decimal
0000401A  E6                                       5471+         DC    X'E6'
0000401B  01                                       5472+         DC    X'01'                   v1
0000401C  0806E0                                   5473+         DC    HL3'526048'             0, I3, RXB
0000401F  5F                                       5474+         DC    X'5F'

00004020  B98D 0020                                5476+         EPSW  R2,R0             exptract psw
00004024  5020 8E9C                     0000109C   5477+         ST    R2,CCPSW              to save CC
00004028  07FB                                     5478+         BR    R11               return
0000402C                                           5479+RE167    DC    0F
0000402C                                           5480+         DROP  R5
0000402C  0FF00000 00000000                        5481          DC    XL16'0FF0000000000000000000000000F009'   V1 source
00004034  00000000 0000F009
                                                   5482
                                                   5483          VRR_G VTPX,X'807F',1
00004040                                           5484+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004040                     00004040              5485+         USING *,R5              base for test data and test routine
00004040  0000405C                                 5486+T168     DC    A(X168)           address of test routine
00004044  00A8                                     5487+         DC    H'168'            test number
00004046  00                                       5488+         DC    XL1'00'
00004047  01                                       5489+         DC    HL1'1'            cc
00004048  0B                                       5490+         DC    HL1'11'           cc failed mask
00004049  E5E3D7E7 40404040                        5491+         DC    CL8'VTPX'         instruction name
00004054  00000010                                 5492+         DC    A(16)             result length
00004058  00004074                                 5493+REA168   DC    A(RE168)          result address
                                                   5494+*                                  INSTRUCTION UNDER TEST ROUTINE
0000405C                                           5495+X168     DS    0F
0000405C  E710 5034 0006                00004074   5496+         VL    V1,RE168          get V1 source

00004062                                           5499+         DS    0H                      E65F VTP - Vector Test Decimal
00004062  E6                                       5500+         DC    X'E6'
00004063  01                                       5501+         DC    X'01'                   v1
00004064  0807F0                                   5502+         DC    HL3'526320'             0, I3, RXB
00004067  5F                                       5503+         DC    X'5F'

00004068  B98D 0020                                5505+         EPSW  R2,R0             exptract psw
0000406C  5020 8E9C                     0000109C   5506+         ST    R2,CCPSW              to save CC
00004070  07FB                                     5507+         BR    R11               return
00004074                                           5508+RE168    DC    0F
00004074                                           5509+         DROP  R5
00004074  10000000 00000000                        5510          DC    XL16'10000000000000000000000000000000B'   V1 source
0000407C  00000000 0000000B
                                                   5511
                                                   5512 * BTP=1, STC=3, DC>0 and even
                                                   5513 *                                  sign: C    valid, 0 digits
                                                   5514          VRR_G VTPX,X'C066',1
00004088                                           5515+         DS    0FD
00004088                     00004088              5516+         USING *,R5              base for test data and test routine
00004088  000040A4                                 5517+T169     DC    A(X169)           address of test routine
0000408C  00A9                                     5518+         DC    H'169'            test number
0000408E  00                                       5519+         DC    XL1'00'
0000408F  01                                       5520+         DC    HL1'1'            cc
00004090  0B                                       5521+         DC    HL1'11'           cc failed mask
00004091  E5E3D7E7 40404040                        5522+         DC    CL8'VTPX'         instruction name
0000409C  00000010                                 5523+         DC    A(16)             result length
000040A0  000040BC                                 5524+REA169   DC    A(RE169)          result address
                                                   5525+*                                  INSTRUCTION UNDER TEST ROUTINE
000040A4                                           5526+X169     DS    0F
000040A4  E710 5034 0006                000040BC   5527+         VL    V1,RE169          get V1 source

000040AA                                           5530+         DS    0H                      E65F VTP - Vector Test Decimal
000040AA  E6                                       5531+         DC    X'E6'
000040AB  01                                       5532+         DC    X'01'                   v1
000040AC  0C0660                                   5533+         DC    HL3'788064'             0, I3, RXB
000040AF  5F                                       5534+         DC    X'5F'

000040B0  B98D 0020                                5536+         EPSW  R2,R0             exptract psw
000040B4  5020 8E9C                     0000109C   5537+         ST    R2,CCPSW              to save CC
000040B8  07FB                                     5538+         BR    R11               return
000040BC                                           5539+RE169    DC    0F
000040BC                                           5540+         DROP  R5
000040BC  0FF00000 00000000                        5541          DC    XL16'0FF00000000000000000000000000000B'   V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000040C4  00000000 0000000B
                                                   5542
                                                   5543          VRR_G VTPX,X'C06A',0
000040D0                                           5544+         DS    0FD
000040D0                     000040D0              5545+         USING *,R5              base for test data and test routine
000040D0  000040EC                                 5546+T170     DC    A(X170)           address of test routine
000040D4  00AA                                     5547+         DC    H'170'            test number
000040D6  00                                       5548+         DC    XL1'00'
000040D7  00                                       5549+         DC    HL1'0'            cc
000040D8  07                                       5550+         DC    HL1'7'            cc failed mask
000040D9  E5E3D7E7 40404040                        5551+         DC    CL8'VTPX'         instruction name
000040E4  00000010                                 5552+         DC    A(16)             result length
000040E8  00004104                                 5553+REA170   DC    A(RE170)          result address
                                                   5554+*                                  INSTRUCTION UNDER TEST ROUTINE
000040EC                                           5555+X170     DS    0F
000040EC  E710 5034 0006               00004104    5556+         VL    V1,RE170          get V1 source

000040F2                                           5559+         DS    0H                      E65F VTP - Vector Test Decimal
000040F2  E6                                       5560+         DC    X'E6'
000040F3  01                                       5561+         DC    X'01'                   v1
000040F4  0C06A0                                   5562+         DC    HL3'788128'             0, I3, RXB
000040F7  5F                                       5563+         DC    X'5F'

000040F8  B98D 0020                                5565+         EPSW  R2,R0             exptract psw
000040FC  5020 8E9C                    0000109C    5566+         ST    R2,CCPSW              to save CC
00004100  07FB                                     5567+         BR    R11               return
00004104                                           5568+RE170    DC    0F
00004104                                           5569+         DROP  R5
00004104  0FF00000 00000000                        5570          DC    XL16'0FF00000000000000000000000000C'   V1 source
0000410C  00000000 0000000C
                                                   5571
                                                   5572          VRR_G VTPX,X'C06A',1
00004118                                           5573+         DS    0FD
00004118                     00004118              5574+         USING *,R5              base for test data and test routine
00004118  00004134                                 5575+T171     DC    A(X171)           address of test routine
0000411C  00AB                                     5576+         DC    H'171'            test number
0000411E  00                                       5577+         DC    XL1'00'
0000411F  01                                       5578+         DC    HL1'1'            cc
00004120  0B                                       5579+         DC    HL1'11'           cc failed mask
00004121  E5E3D7E7 40404040                        5580+         DC    CL8'VTPX'         instruction name
0000412C  00000010                                 5581+         DC    A(16)             result length
00004130  0000414C                                 5582+REA171   DC    A(RE171)          result address
                                                   5583+*                                  INSTRUCTION UNDER TEST ROUTINE
00004134                                           5584+X171     DS    0F
00004134  E710 5034 0006               0000414C    5585+         VL    V1,RE171          get V1 source

0000413A                                           5588+         DS    0H                      E65F VTP - Vector Test Decimal
0000413A  E6                                       5589+         DC    X'E6'
0000413B  01                                       5590+         DC    X'01'                   v1
0000413C  0C06A0                                   5591+         DC    HL3'788128'             0, I3, RXB
0000413F  5F                                       5592+         DC    X'5F'

00004140  B98D 0020                                5594+         EPSW  R2,R0             exptract psw
00004144  5020 8E9C                    0000109C    5595+         ST    R2,CCPSW              to save CC
00004148  07FB                                     5596+         BR    R11               return
0000414C                                           5597+RE171    DC    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000414C                                           5598+         DROP  R5
0000414C  0FF00000 00000000                        5599          DC    XL16'0FF00000000000000000000000000D'   V1 source
00004154  00000000 0000000D
                                                   5600
                                                   5601 *                                   sign: C, D valid, non-0 digits
                                                   5602          VRR_G VTPX,X'C064',1
00004160                                           5603+         DS    0FD
00004160                      00004160             5604+         USING *,R5              base for test data and test routine
00004160  0000417C                                 5605+T172     DC    A(X172)           address of test routine
00004164  00AC                                     5606+         DC    H'172'            test number
00004166  00                                       5607+         DC    XL1'00'
00004167  01                                       5608+         DC    HL1'1'            cc
00004168  0B                                       5609+         DC    HL1'11'           cc failed mask
00004169  E5E3D7E7 40404040                        5610+         DC    CL8'VTPX'         instruction name
00004174  00000010                                 5611+         DC    A(16)             result length
00004178  00004194                                 5612+REA172   DC    A(RE172)          result address
                                                   5613+*                                  INSTRUCTION UNDER TEST ROUTINE
0000417C                                           5614+X172     DS    0F
0000417C  E710 5034 0006                00004194   5615+         VL    V1,RE172          get V1 source

00004182                                           5618+         DS    0H                      E65F VTP - Vector Test Decimal
00004182  E6                                       5619+         DC    X'E6'
00004183  01                                       5620+         DC    X'01'                   v1
00004184  0C0640                                   5621+         DC    HL3'788032'             0, I3, RXB
00004187  5F                                       5622+         DC    X'5F'

00004188  B98D 0020                                5624+         EPSW  R2,R0             exptract psw
0000418C  5020 8E9C                     0000109C   5625+         ST    R2,CCPSW              to save CC
00004190  07FB                                     5626+         BR    R11               return
00004194                                           5627+RE172    DC    0F
00004194                                           5628+         DROP  R5
00004194  0FF00000 00000000                        5629          DC    XL16'0FF00000000000000000000000100A'   V1 source
0000419C  00000000 0000100A
                                                   5630
                                                   5631          VRR_G VTPX,X'C066',1
000041A8                                           5632+         DS    0FD
000041A8                      000041A8             5633+         USING *,R5              base for test data and test routine
000041A8  000041C4                                 5634+T173     DC    A(X173)           address of test routine
000041AC  00AD                                     5635+         DC    H'173'            test number
000041AE  00                                       5636+         DC    XL1'00'
000041AF  01                                       5637+         DC    HL1'1'            cc
000041B0  0B                                       5638+         DC    HL1'11'           cc failed mask
000041B1  E5E3D7E7 40404040                        5639+         DC    CL8'VTPX'         instruction name
000041BC  00000010                                 5640+         DC    A(16)             result length
000041C0  000041DC                                 5641+REA173   DC    A(RE173)          result address
                                                   5642+*                                  INSTRUCTION UNDER TEST ROUTINE
000041C4                                           5643+X173     DS    0F
000041C4  E710 5034 0006                000041DC   5644+         VL    V1,RE173          get V1 source

000041CA                                           5647+         DS    0H                      E65F VTP - Vector Test Decimal
000041CA  E6                                       5648+         DC    X'E6'
000041CB  01                                       5649+         DC    X'01'                   v1
000041CC  0C0660                                   5650+         DC    HL3'788064'             0, I3, RXB
000041CF  5F                                       5651+         DC    X'5F'

000041D0  B98D 0020                                5653+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000041D4  5020 8E9C                     0000109C  5654+          ST    R2,CCPSW              to save CC
000041D8  07FB                                    5655+          BR    R11                 return
000041DC                                          5656+RE173     DC    0F
000041DC                                          5657+          DROP  R5
000041DC  0FF00000 00000000                       5658           DC    XL16'0FF00000000000000000000000100B'   V1 source
000041E4  00000000 0000100B
                                                  5659
                                                  5660           VRR_G VTPX,X'C068',0
000041F0                                          5661+          DS    0FD
000041F0                        000041F0          5662+          USING *,R5                base for test data and test routine
000041F0  0000420C                                5663+T174      DC    A(X174)             address of test routine
000041F4  00AE                                    5664+          DC    H'174'              test number
000041F6  00                                      5665+          DC    XL1'00'
000041F7  00                                      5666+          DC    HL1'0'              cc
000041F8  07                                      5667+          DC    HL1'7'              cc failed mask
000041F9  E5E3D7E7 40404040                       5668+          DC    CL8'VTPX'           instruction name
00004204  00000010                                5669+          DC    A(16)               result length
00004208  00004224                                5670+REA174    DC    A(RE174)            result address
                                                  5671+*                                    INSTRUCTION UNDER TEST ROUTINE
0000420C                                          5672+X174      DS    0F
0000420C  E710 5034 0006                00004224  5673+          VL    V1,RE174            get V1 source

00004212                                          5676+          DS    0H                        E65F VTP - Vector Test Decimal
00004212  E6                                      5677+          DC    X'E6'
00004213  01                                      5678+          DC    X'01'                     v1
00004214  0C0680                                  5679+          DC    HL3'788096'               0, I3, RXB
00004217  5F                                      5680+          DC    X'5F'

00004218  B98D 0020                               5682+          EPSW  R2,R0               exptract psw
0000421C  5020 8E9C                     0000109C  5683+          ST    R2,CCPSW              to save CC
00004220  07FB                                    5684+          BR    R11                 return
00004224                                          5685+RE174     DC    0F
00004224                                          5686+          DROP  R5
00004224  0FF00000 00000000                       5687           DC    XL16'0FF00000000000000000000000100C'   V1 source
0000422C  00000000 0000100C
                                                  5688
                                                  5689           VRR_G VTPX,X'C06A',0
00004238                                          5690+          DS    0FD
00004238                        00004238          5691+          USING *,R5                base for test data and test routine
00004238  00004254                                5692+T175      DC    A(X175)             address of test routine
0000423C  00AF                                    5693+          DC    H'175'              test number
0000423E  00                                      5694+          DC    XL1'00'
0000423F  00                                      5695+          DC    HL1'0'              cc
00004240  07                                      5696+          DC    HL1'7'              cc failed mask
00004241  E5E3D7E7 40404040                       5697+          DC    CL8'VTPX'           instruction name
0000424C  00000010                                5698+          DC    A(16)               result length
00004250  0000426C                                5699+REA175    DC    A(RE175)            result address
                                                  5700+*                                    INSTRUCTION UNDER TEST ROUTINE
00004254                                          5701+X175      DS    0F
00004254  E710 5034 0006                0000426C  5702+          VL    V1,RE175            get V1 source

0000425A                                          5705+          DS    0H                        E65F VTP - Vector Test Decimal
0000425A  E6                                      5706+          DC    X'E6'
0000425B  01                                      5707+          DC    X'01'                     v1
0000425C  0C06A0                                  5708+          DC    HL3'788128'               0, I3, RXB
0000425F  5F                                      5709+          DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004260  B98D 0020                                5711+         EPSW  R2,R0              exptract psw
00004264  5020 8E9C                       0000109C 5712+         ST    R2,CCPSW               to save CC
00004268  07FB                                     5713+         BR    R11                return
0000426C                                           5714+RE175    DC    0F
0000426C                                           5715+         DROP  R5
0000426C  0FF00000 00000000                        5716          DC    XL16'0FF00000000000000000000000100D'   V1 source
00004274  00000000 0000100D
                                                   5717
                                                   5718          VRR_G VTPX,X'C06C',1
00004280                                           5719+         DS    0FD
00004280                          00004280         5720+         USING *,R5               base for test data and test routine
00004280  0000429C                                 5721+T176     DC    A(X176)            address of test routine
00004284  00B0                                     5722+         DC    H'176'             test number
00004286  00                                       5723+         DC    XL1'00'
00004287  01                                       5724+         DC    HL1'1'             cc
00004288  0B                                       5725+         DC    HL1'11'            cc failed mask
00004289  E5E3D7E7 40404040                        5726+         DC    CL8'VTPX'          instruction name
00004294  00000010                                 5727+         DC    A(16)              result length
00004298  000042B4                                 5728+REA176   DC    A(RE176)           result address
                                                   5729+*                                   INSTRUCTION UNDER TEST ROUTINE
0000429C                                           5730+X176     DS    0F
0000429C  E710 5034 0006                  000042B4 5731+         VL    V1,RE176           get V1 source

000042A2                                           5734+         DS    0H                       E65F VTP - Vector Test Decimal
000042A2  E6                                       5735+         DC    X'E6'
000042A3  01                                       5736+         DC    X'01'                    v1
000042A4  0C06C0                                   5737+         DC    HL3'788160'              0, I3, RXB
000042A7  5F                                       5738+         DC    X'5F'

000042A8  B98D 0020                                5740+         EPSW  R2,R0              exptract psw
000042AC  5020 8E9C                       0000109C 5741+         ST    R2,CCPSW               to save CC
000042B0  07FB                                     5742+         BR    R11                return
000042B4                                           5743+RE176    DC    0F
000042B4                                           5744+         DROP  R5
000042B4  0FF00000 00000000                        5745          DC    XL16'0FF00000000000000000000000100E'   V1 source
000042BC  00000000 0000100E
                                                   5746
                                                   5747          VRR_G VTPX,X'C064',1
000042C8                                           5748+         DS    0FD
000042C8                          000042C8         5749+         USING *,R5               base for test data and test routine
000042C8  000042E4                                 5750+T177     DC    A(X177)            address of test routine
000042CC  00B1                                     5751+         DC    H'177'             test number
000042CE  00                                       5752+         DC    XL1'00'
000042CF  01                                       5753+         DC    HL1'1'             cc
000042D0  0B                                       5754+         DC    HL1'11'            cc failed mask
000042D1  E5E3D7E7 40404040                        5755+         DC    CL8'VTPX'          instruction name
000042DC  00000010                                 5756+         DC    A(16)              result length
000042E0  000042FC                                 5757+REA177   DC    A(RE177)           result address
                                                   5758+*                                   INSTRUCTION UNDER TEST ROUTINE
000042E4                                           5759+X177     DS    0F
000042E4  E710 5034 0006                  000042FC 5760+         VL    V1,RE177           get V1 source

000042EA                                           5763+         DS    0H                       E65F VTP - Vector Test Decimal
000042EA  E6                                       5764+         DC    X'E6'
000042EB  01                                       5765+         DC    X'01'                    v1
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000042EC  0C0640                                   5766+         DC    HL3'788032'             0, I3, RXB
000042EF  5F                                       5767+         DC    X'5F'

000042F0  B98D 0020                                5769+         EPSW  R2,R0             exptract psw
000042F4  5020 8E9C                     0000109C   5770+         ST    R2,CCPSW              to save CC
000042F8  07FB                                     5771+         BR    R11               return
000042FC                                           5772+RE177    DC    0F
000042FC                                           5773+         DROP  R5
000042FC  0FF00000 00000000                        5774          DC    XL16'0FF00000000000000000000001100F'   V1 source
00004304  00000000 0001100F
                                                   5775
                                                   5776          VRR_G VTPX,X'C064',3
00004310                                           5777+         DS    0FD
00004310                        00004310           5778+         USING *,R5              base for test data and test routine
00004310  0000432C                                 5779+T178     DC    A(X178)           address of test routine
00004314  00B2                                     5780+         DC    H'178'            test number
00004316  00                                       5781+         DC    XL1'00'
00004317  03                                       5782+         DC    HL1'3'            cc
00004318  0E                                       5783+         DC    HL1'14'           cc failed mask
00004319  E5E3D7E7 40404040                        5784+         DC    CL8'VTPX'         instruction name
00004324  00000010                                 5785+         DC    A(16)             result length
00004328  00004344                                 5786+REA178   DC    A(RE178)          result address
                                                   5787+*                                  INSTRUCTION UNDER TEST ROUTINE
0000432C                                           5788+X178     DS    0F
0000432C  E710 5034 0006                00004344   5789+         VL    V1,RE178          get V1 source

00004332                                           5792+         DS    0H                      E65F VTP - Vector Test Decimal
00004332  E6                                       5793+         DC    X'E6'
00004333  01                                       5794+         DC    X'01'                   v1
00004334  0C0640                                   5795+         DC    HL3'788032'             0, I3, RXB
00004337  5F                                       5796+         DC    X'5F'

00004338  B98D 0020                                5798+         EPSW  R2,R0             exptract psw
0000433C  5020 8E9C                     0000109C   5799+         ST    R2,CCPSW              to save CC
00004340  07FB                                     5800+         BR    R11               return
00004344                                           5801+RE178    DC    0F
00004344                                           5802+         DROP  R5
00004344  0FF00000 00000000                        5803          DC    XL16'0FF00000000000000000000011100F'   V1 source
0000434C  00000000 0011100F
                                                   5804
                                                   5805          VRR_G VTPX,X'C064',1
00004358                                           5806+         DS    0FD
00004358                        00004358           5807+         USING *,R5              base for test data and test routine
00004358  00004374                                 5808+T179     DC    A(X179)           address of test routine
0000435C  00B3                                     5809+         DC    H'179'            test number
0000435E  00                                       5810+         DC    XL1'00'
0000435F  01                                       5811+         DC    HL1'1'            cc
00004360  0B                                       5812+         DC    HL1'11'           cc failed mask
00004361  E5E3D7E7 40404040                        5813+         DC    CL8'VTPX'         instruction name
0000436C  00000010                                 5814+         DC    A(16)             result length
00004370  0000438C                                 5815+REA179   DC    A(RE179)          result address
                                                   5816+*                                  INSTRUCTION UNDER TEST ROUTINE
00004374                                           5817+X179     DS    0F
00004374  E710 5034 0006                0000438C   5818+         VL    V1,RE179          get V1 source

0000437A                                           5821+         DS    0H                      E65F VTP - Vector Test Decimal
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000437A  E6                                      5822+         DC    X'E6'
0000437B  01                                      5823+         DC    X'01'                   v1
0000437C  0C0640                                  5824+         DC    HL3'788032'             0, I3, RXB
0000437F  5F                                      5825+         DC    X'5F'

00004380  B98D 0020                               5827+         EPSW  R2,R0             exptract psw
00004384  5020 8E9C                     0000109C  5828+         ST    R2,CCPSW              to save CC
00004388  07FB                                    5829+         BR    R11               return
0000438C                                          5830+RE179    DC    0F
0000438C                                          5831+         DROP  R5
0000438C  0FF00000 00000000                       5832          DC    XL16'0FF00000000000000000000000011000'   V1 source
00004394  00000000 00011000
                                                  5833
                                                  5834          VRR_G VTPX,X'C064',3
000043A0                                          5835+         DS    0FD
000043A0                        000043A0          5836+         USING *,R5              base for test data and test routine
000043A0  000043BC                                5837+T180     DC    A(X180)           address of test routine
000043A4  00B4                                    5838+         DC    H'180'            test number
000043A6  00                                      5839+         DC    XL1'00'
000043A7  03                                      5840+         DC    HL1'3'            cc
000043A8  0E                                      5841+         DC    HL1'14'           cc failed mask
000043A9  E5E3D7E7 40404040                       5842+         DC    CL8'VTPX'         instruction name
000043B4  00000010                                5843+         DC    A(16)             result length
000043B8  000043D4                                5844+REA180   DC    A(RE180)          result address
                                                  5845+*                                  INSTRUCTION UNDER TEST ROUTINE
000043BC                                          5846+X180     DS    0F
000043BC  E710 5034 0006                000043D4  5847+         VL    V1,RE180          get V1 source

000043C2                                          5850+         DS    0H                      E65F VTP - Vector Test Decimal
000043C2  E6                                      5851+         DC    X'E6'
000043C3  01                                      5852+         DC    X'01'                   v1
000043C4  0C0640                                  5853+         DC    HL3'788032'             0, I3, RXB
000043C7  5F                                      5854+         DC    X'5F'

000043C8  B98D 0020                               5856+         EPSW  R2,R0             exptract psw
000043CC  5020 8E9C                     0000109C  5857+         ST    R2,CCPSW              to save CC
000043D0  07FB                                    5858+         BR    R11               return
000043D4                                          5859+RE180    DC    0F
000043D4                                          5860+         DROP  R5
000043D4  0FF00000 00000000                       5861          DC    XL16'0FF00000000000000000000001F00F'   V1 source
000043DC  00000000 0001F00F
                                                  5862
                                                  5863          VRR_G VTPX,X'C064',3
000043E8                                          5864+         DS    0FD
000043E8                        000043E8          5865+         USING *,R5              base for test data and test routine
000043E8  00004404                                5866+T181     DC    A(X181)           address of test routine
000043EC  00B5                                    5867+         DC    H'181'            test number
000043EE  00                                      5868+         DC    XL1'00'
000043EF  03                                      5869+         DC    HL1'3'            cc
000043F0  0E                                      5870+         DC    HL1'14'           cc failed mask
000043F1  E5E3D7E7 40404040                       5871+         DC    CL8'VTPX'         instruction name
000043FC  00000010                                5872+         DC    A(16)             result length
00004400  0000441C                                5873+REA181   DC    A(RE181)          result address
                                                  5874+*                                  INSTRUCTION UNDER TEST ROUTINE
00004404                                          5875+X181     DS    0F
00004404  E710 5034 0006                0000441C  5876+         VL    V1,RE181          get V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000440A                                           5879+         DS    0H                      E65F VTP - Vector Test Decimal
0000440A  E6                                       5880+         DC    X'E6'
0000440B  01                                       5881+         DC    X'01'                   v1
0000440C  0C0640                                   5882+         DC    HL3'788032'             0, I3, RXB
0000440F  5F                                       5883+         DC    X'5F'

00004410  B98D 0020                                5885+         EPSW  R2,R0             exptract psw
00004414  5020 8E9C                     0000109C   5886+         ST    R2,CCPSW              to save CC
00004418  07FB                                     5887+         BR    R11               return
0000441C                                           5888+RE181    DC    0F
0000441C                                           5889+         DROP  R5
0000441C  0FF00000 00000000                        5890          DC    XL16'0FF00000000000000000000000111009'   V1 source
00004424  00000000 00111009
                                                   5891
                                                   5892          VRR_G VTPX,X'C07E',2
00004430                                           5893+         DS    0FD
00004430                        00004430           5894+         USING *,R5              base for test data and test routine
00004430  0000444C                                 5895+T182     DC    A(X182)           address of test routine
00004434  00B6                                     5896+         DC    H'182'            test number
00004436  00                                       5897+         DC    XL1'00'
00004437  02                                       5898+         DC    HL1'2'            cc
00004438  0D                                       5899+         DC    HL1'13'           cc failed mask
00004439  E5E3D7E7 40404040                        5900+         DC    CL8'VTPX'         instruction name
00004444  00000010                                 5901+         DC    A(16)             result length
00004448  00004464                                 5902+REA182   DC    A(RE182)          result address
                                                   5903+*                                  INSTRUCTION UNDER TEST ROUTINE
0000444C                                           5904+X182     DS    0F
0000444C  E710 5034 0006                00004464   5905+         VL    V1,RE182          get V1 source

00004452                                           5908+         DS    0H                      E65F VTP - Vector Test Decimal
00004452  E6                                       5909+         DC    X'E6'
00004453  01                                       5910+         DC    X'01'                   v1
00004454  0C07E0                                   5911+         DC    HL3'788448'             0, I3, RXB
00004457  5F                                       5912+         DC    X'5F'

00004458  B98D 0020                                5914+         EPSW  R2,R0             exptract psw
0000445C  5020 8E9C                     0000109C   5915+         ST    R2,CCPSW              to save CC
00004460  07FB                                     5916+         BR    R11               return
00004464                                           5917+RE182    DC    0F
00004464                                           5918+         DROP  R5
00004464  10000000 00000000                        5919          DC    XL16'10000000000000000000000000000000C'   V1 source
0000446C  00000000 0000000C
                                                   5920 *-------------------------------------------------------------------
                                                   5921 *  Sign-Test Control: STC=4
                                                   5922 *-------------------------------------------------------------------
                                                   5923 * BTP=0, STC=4, DC=0                  only sign: F valid, no digits
                                                   5924          VRR_G VTPX,X'8080',1
00004478                                           5925+         DS    0FD
00004478                        00004478           5926+         USING *,R5              base for test data and test routine
00004478  00004494                                 5927+T183     DC    A(X183)           address of test routine
0000447C  00B7                                     5928+         DC    H'183'            test number
0000447E  00                                       5929+         DC    XL1'00'
0000447F  01                                       5930+         DC    HL1'1'            cc
00004480  0B                                       5931+         DC    HL1'11'           cc failed mask
00004481  E5E3D7E7 40404040                        5932+         DC    CL8'VTPX'         instruction name
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000448C  00000010                                 5933+         DC    A(16)              result length
00004490  000044AC                                 5934+REA183   DC    A(RE183)           result address
                                                   5935+*                                   INSTRUCTION UNDER TEST ROUTINE
00004494                                           5936+X183     DS    0F
00004494  E710 5034 0006                 000044AC  5937+         VL    V1,RE183           get V1 source

0000449A                                           5940+         DS    0H                       E65F VTP - Vector Test Decimal
0000449A  E6                                       5941+         DC    X'E6'
0000449B  01                                       5942+         DC    X'01'                    v1
0000449C  080800                                   5943+         DC    HL3'526336'              0, I3, RXB
0000449F  5F                                       5944+         DC    X'5F'

000044A0  B98D 0020                                5946+         EPSW  R2,R0              exptract psw
000044A4  5020 8E9C                      0000109C  5947+         ST    R2,CCPSW               to save CC
000044A8  07FB                                     5948+         BR    R11                return
000044AC                                           5949+RE183    DC    0F
000044AC                                           5950+         DROP  R5
000044AC  0FF00000 00000000                        5951          DC    XL16'0FF0000000000000000000000000A'   V1 source
000044B4  00000000 0000000A
                                                   5952
                                                   5953          VRR_G VTPX,X'8080',1
000044C0                                           5954+         DS    0FD
000044C0                       000044C0            5955+         USING *,R5               base for test data and test routine
000044C0  000044DC                                 5956+T184     DC    A(X184)            address of test routine
000044C4  00B8                                     5957+         DC    H'184'             test number
000044C6  00                                       5958+         DC    XL1'00'
000044C7  01                                       5959+         DC    HL1'1'             cc
000044C8  0B                                       5960+         DC    HL1'11'            cc failed mask
000044C9  E5E3D7E7 40404040                        5961+         DC    CL8'VTPX'          instruction name
000044D4  00000010                                 5962+         DC    A(16)              result length
000044D8  000044F4                                 5963+REA184   DC    A(RE184)           result address
                                                   5964+*                                   INSTRUCTION UNDER TEST ROUTINE
000044DC                                           5965+X184     DS    0F
000044DC  E710 5034 0006                 000044F4  5966+         VL    V1,RE184           get V1 source

000044E2                                           5969+         DS    0H                       E65F VTP - Vector Test Decimal
000044E2  E6                                       5970+         DC    X'E6'
000044E3  01                                       5971+         DC    X'01'                    v1
000044E4  080800                                   5972+         DC    HL3'526336'              0, I3, RXB
000044E7  5F                                       5973+         DC    X'5F'

000044E8  B98D 0020                                5975+         EPSW  R2,R0              exptract psw
000044EC  5020 8E9C                      0000109C  5976+         ST    R2,CCPSW               to save CC
000044F0  07FB                                     5977+         BR    R11                return
000044F4                                           5978+RE184    DC    0F
000044F4                                           5979+         DROP  R5
000044F4  0FF00000 00000000                        5980          DC    XL16'0FF0000000000000000000000000B'   V1 source
000044FC  00000000 0000000B
                                                   5981
                                                   5982          VRR_G VTPX,X'8080',1
00004508                                           5983+         DS    0FD
00004508                       00004508            5984+         USING *,R5               base for test data and test routine
00004508  00004524                                 5985+T185     DC    A(X185)            address of test routine
0000450C  00B9                                     5986+         DC    H'185'             test number
0000450E  00                                       5987+         DC    XL1'00'
0000450F  01                                       5988+         DC    HL1'1'             cc
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004510  0B                                       5989+         DC    HL1'11'           cc failed mask
00004511  E5E3D7E7 40404040                        5990+         DC    CL8'VTPX'         instruction name
0000451C  00000010                                 5991+         DC    A(16)             result length
00004520  0000453C                                 5992+REA185   DC    A(RE185)          result address
                                                   5993+*                                  INSTRUCTION UNDER TEST ROUTINE
00004524                                           5994+X185     DS    0F
00004524  E710 5034 0006                0000453C   5995+         VL    V1,RE185          get V1 source

0000452A                                           5998+         DS    0H                      E65F VTP - Vector Test Decimal
0000452A  E6                                       5999+         DC    X'E6'
0000452B  01                                       6000+         DC    X'01'                   v1
0000452C  080800                                   6001+         DC    HL3'526336'             0, I3, RXB
0000452F  5F                                       6002+         DC    X'5F'

00004530  B98D 0020                                6004+         EPSW  R2,R0             exptract psw
00004534  5020 8E9C                     0000109C   6005+         ST    R2,CCPSW              to save CC
00004538  07FB                                     6006+         BR    R11               return
0000453C                                           6007+RE185    DC    0F
0000453C                                           6008+         DROP  R5
0000453C  0FF00000 00000000                        6009          DC    XL16'0FF00000000000000000000000000000C'   V1 source
00004544  00000000 0000000C
                                                   6010
                                                   6011          VRR_G VTPX,X'8080',1
00004550                                           6012+         DS    0FD
00004550                        00004550           6013+         USING *,R5              base for test data and test routine
00004550  0000456C                                 6014+T186     DC    A(X186)           address of test routine
00004554  00BA                                     6015+         DC    H'186'            test number
00004556  00                                       6016+         DC    XL1'00'
00004557  01                                       6017+         DC    HL1'1'            cc
00004558  0B                                       6018+         DC    HL1'11'           cc failed mask
00004559  E5E3D7E7 40404040                        6019+         DC    CL8'VTPX'         instruction name
00004564  00000010                                 6020+         DC    A(16)             result length
00004568  00004584                                 6021+REA186   DC    A(RE186)          result address
                                                   6022+*                                  INSTRUCTION UNDER TEST ROUTINE
0000456C                                           6023+X186     DS    0F
0000456C  E710 5034 0006                00004584   6024+         VL    V1,RE186          get V1 source

00004572                                           6027+         DS    0H                      E65F VTP - Vector Test Decimal
00004572  E6                                       6028+         DC    X'E6'
00004573  01                                       6029+         DC    X'01'                   v1
00004574  080800                                   6030+         DC    HL3'526336'             0, I3, RXB
00004577  5F                                       6031+         DC    X'5F'

00004578  B98D 0020                                6033+         EPSW  R2,R0             exptract psw
0000457C  5020 8E9C                     0000109C   6034+         ST    R2,CCPSW              to save CC
00004580  07FB                                     6035+         BR    R11               return
00004584                                           6036+RE186    DC    0F
00004584                                           6037+         DROP  R5
00004584  0FF00000 00000000                        6038          DC    XL16'0FF00000000000000000000000000000D'   V1 source
0000458C  00000000 0000000D
                                                   6039
                                                   6040          VRR_G VTPX,X'8080',1
00004598                                           6041+         DS    0FD
00004598                        00004598           6042+         USING *,R5              base for test data and test routine
00004598  000045B4                                 6043+T187     DC    A(X187)           address of test routine
0000459C  00BB                                     6044+         DC    H'187'            test number
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000459E  00                                      6045+         DC    XL1'00'
0000459F  01                                      6046+         DC    HL1'1'            cc
000045A0  0B                                      6047+         DC    HL1'11'           cc failed mask
000045A1  E5E3D7E7 40404040                       6048+         DC    CL8'VTPX'         instruction name
000045AC  00000010                                6049+         DC    A(16)             result length
000045B0  000045CC                                6050+REA187   DC    A(RE187)          result address
                                                  6051+*                                  INSTRUCTION UNDER TEST ROUTINE
000045B4                                          6052+X187     DS    0F
000045B4  E710 5034 0006                000045CC  6053+         VL    V1,RE187          get V1 source

000045BA                                          6056+         DS    0H                      E65F VTP - Vector Test Decimal
000045BA  E6                                      6057+         DC    X'E6'
000045BB  01                                      6058+         DC    X'01'                   v1
000045BC  080800                                  6059+         DC    HL3'526336'             0, I3, RXB
000045BF  5F                                      6060+         DC    X'5F'

000045C0  B98D 0020                               6062+         EPSW  R2,R0             exptract psw
000045C4  5020 8E9C                     0000109C  6063+         ST    R2,CCPSW              to save CC
000045C8  07FB                                    6064+         BR    R11               return
000045CC                                          6065+RE187    DC    0F
000045CC                                          6066+         DROP  R5
000045CC  0FF00000 00000000                       6067          DC    XL16'0FF0000000000000000000000000E'   V1 source
000045D4  00000000 0000000E
                                                  6068
                                                  6069          VRR_G VTPX,X'8080',0
000045E0                                          6070+         DS    0FD
000045E0                        000045E0          6071+         USING *,R5              base for test data and test routine
000045E0  000045FC                                6072+T188     DC    A(X188)           address of test routine
000045E4  00BC                                    6073+         DC    H'188'            test number
000045E6  00                                      6074+         DC    XL1'00'
000045E7  00                                      6075+         DC    HL1'0'            cc
000045E8  07                                      6076+         DC    HL1'7'            cc failed mask
000045E9  E5E3D7E7 40404040                       6077+         DC    CL8'VTPX'         instruction name
000045F4  00000010                                6078+         DC    A(16)             result length
000045F8  00004614                                6079+REA188   DC    A(RE188)          result address
                                                  6080+*                                  INSTRUCTION UNDER TEST ROUTINE
000045FC                                          6081+X188     DS    0F
000045FC  E710 5034 0006                00004614  6082+         VL    V1,RE188          get V1 source

00004602                                          6085+         DS    0H                      E65F VTP - Vector Test Decimal
00004602  E6                                      6086+         DC    X'E6'
00004603  01                                      6087+         DC    X'01'                   v1
00004604  080800                                  6088+         DC    HL3'526336'             0, I3, RXB
00004607  5F                                      6089+         DC    X'5F'

00004608  B98D 0020                               6091+         EPSW  R2,R0             exptract psw
0000460C  5020 8E9C                     0000109C  6092+         ST    R2,CCPSW              to save CC
00004610  07FB                                    6093+         BR    R11               return
00004614                                          6094+RE188    DC    0F
00004614                                          6095+         DROP  R5
00004614  0FF00000 00000000                       6096          DC    XL16'0FF0000000000000000000000000F'   V1 source
0000461C  00000000 0000000F
                                                  6097
                                                  6098          VRR_G VTPX,X'8080',1
00004628                                          6099+         DS    0FD
00004628                        00004628          6100+         USING *,R5              base for test data and test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004628  00004644                                 6101+T189     DC    A(X189)           address of test routine
0000462C  00BD                                     6102+         DC    H'189'            test number
0000462E  00                                       6103+         DC    XL1'00'
0000462F  01                                       6104+         DC    HL1'1'            cc
00004630  0B                                       6105+         DC    HL1'11'           cc failed mask
00004631  E5E3D7E7 40404040                        6106+         DC    CL8'VTPX'         instruction name
0000463C  00000010                                 6107+         DC    A(16)             result length
00004640  0000465C                                 6108+REA189   DC    A(RE189)          result address
                                                   6109+*                                  INSTRUCTION UNDER TEST ROUTINE
00004644                                           6110+X189     DS    0F
00004644  E710 5034 0006                0000465C   6111+         VL    V1,RE189          get V1 source

0000464A                                           6114+         DS    0H                      E65F VTP - Vector Test Decimal
0000464A  E6                                       6115+         DC    X'E6'
0000464B  01                                       6116+         DC    X'01'                   v1
0000464C  080800                                   6117+         DC    HL3'526336'             0, I3, RXB
0000464F  5F                                       6118+         DC    X'5F'

00004650  B98D 0020                                6120+         EPSW  R2,R0             exptract psw
00004654  5020 8E9C                     0000109C   6121+         ST    R2,CCPSW              to save CC
00004658  07FB                                     6122+         BR    R11               return
0000465C                                           6123+RE189    DC    0F
0000465C                                           6124+         DROP  R5
0000465C  0FF00000 00000000                        6125          DC    XL16'0FF00000000000000000000000000000'   V1 source
00004664  00000000 00000000
                                                   6126
                                                   6127          VRR_G VTPX,X'8080',1
00004670                                           6128+         DS    0FD
00004670                        00004670           6129+         USING *,R5              base for test data and test routine
00004670  0000468C                                 6130+T190     DC    A(X190)           address of test routine
00004674  00BE                                     6131+         DC    H'190'            test number
00004676  00                                       6132+         DC    XL1'00'
00004677  01                                       6133+         DC    HL1'1'            cc
00004678  0B                                       6134+         DC    HL1'11'           cc failed mask
00004679  E5E3D7E7 40404040                        6135+         DC    CL8'VTPX'         instruction name
00004684  00000010                                 6136+         DC    A(16)             result length
00004688  000046A4                                 6137+REA190   DC    A(RE190)          result address
                                                   6138+*                                  INSTRUCTION UNDER TEST ROUTINE
0000468C                                           6139+X190     DS    0F
0000468C  E710 5034 0006                000046A4   6140+         VL    V1,RE190          get V1 source

00004692                                           6143+         DS    0H                      E65F VTP - Vector Test Decimal
00004692  E6                                       6144+         DC    X'E6'
00004693  01                                       6145+         DC    X'01'                   v1
00004694  080800                                   6146+         DC    HL3'526336'             0, I3, RXB
00004697  5F                                       6147+         DC    X'5F'

00004698  B98D 0020                                6149+         EPSW  R2,R0             exptract psw
0000469C  5020 8E9C                     0000109C   6150+         ST    R2,CCPSW              to save CC
000046A0  07FB                                     6151+         BR    R11               return
000046A4                                           6152+RE190    DC    0F
000046A4                                           6153+         DROP  R5
000046A4  0FF00000 00000000                        6154          DC    XL16'0FF00000000000000000000000000009'   V1 source
000046AC  00000000 00000009
                                                   6155
                                                   6156 * BTP=0, STC=4, DC>0 and odd
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   6157 *                                   sign: F  valid, 0 digits
                                                   6158          VRR_G VTPX,X'8087',1
000046B8                                           6159+         DS    0FD
000046B8                     000046B8              6160+         USING *,R5               base for test data and test routine
000046B8  000046D4                                 6161+T191     DC    A(X191)            address of test routine
000046BC  00BF                                     6162+         DC    H'191'             test number
000046BE  00                                       6163+         DC    XL1'00'
000046BF  01                                       6164+         DC    HL1'1'             cc
000046C0  0B                                       6165+         DC    HL1'11'            cc failed mask
000046C1  E5E3D7E7 40404040                        6166+         DC    CL8'VTPX'          instruction name
000046CC  00000010                                 6167+         DC    A(16)              result length
000046D0  000046EC                                 6168+REA191   DC    A(RE191)           result address
                                                   6169+*                                   INSTRUCTION UNDER TEST ROUTINE
000046D4                                           6170+X191     DS    0F
000046D4  E710 5034 0006               000046EC    6171+         VL    V1,RE191           get V1 source

000046DA                                           6174+         DS    0H                       E65F VTP - Vector Test Decimal
000046DA  E6                                       6175+         DC    X'E6'
000046DB  01                                       6176+         DC    X'01'                    v1
000046DC  080870                                   6177+         DC    HL3'526448'              0, I3, RXB
000046DF  5F                                       6178+         DC    X'5F'

000046E0  B98D 0020                                6180+         EPSW  R2,R0              exptract psw
000046E4  5020 8E9C                    0000109C    6181+         ST    R2,CCPSW               to save CC
000046E8  07FB                                     6182+         BR    R11                return
000046EC                                           6183+RE191    DC    0F
000046EC                                           6184+         DROP  R5
000046EC  0FF00000 00000000                        6185          DC    XL16'0FF00000000000000000000000000C'   V1 source
000046F4  00000000 0000000C
                                                   6186
                                                   6187          VRR_G VTPX,X'808B',1
00004700                                           6188+         DS    0FD
00004700                     00004700              6189+         USING *,R5               base for test data and test routine
00004700  0000471C                                 6190+T192     DC    A(X192)            address of test routine
00004704  00C0                                     6191+         DC    H'192'             test number
00004706  00                                       6192+         DC    XL1'00'
00004707  01                                       6193+         DC    HL1'1'             cc
00004708  0B                                       6194+         DC    HL1'11'            cc failed mask
00004709  E5E3D7E7 40404040                        6195+         DC    CL8'VTPX'          instruction name
00004714  00000010                                 6196+         DC    A(16)              result length
00004718  00004734                                 6197+REA192   DC    A(RE192)           result address
                                                   6198+*                                   INSTRUCTION UNDER TEST ROUTINE
0000471C                                           6199+X192     DS    0F
0000471C  E710 5034 0006               00004734    6200+         VL    V1,RE192           get V1 source

00004722                                           6203+         DS    0H                       E65F VTP - Vector Test Decimal
00004722  E6                                       6204+         DC    X'E6'
00004723  01                                       6205+         DC    X'01'                    v1
00004724  0808B0                                   6206+         DC    HL3'526512'              0, I3, RXB
00004727  5F                                       6207+         DC    X'5F'

00004728  B98D 0020                                6209+         EPSW  R2,R0              exptract psw
0000472C  5020 8E9C                    0000109C    6210+         ST    R2,CCPSW               to save CC
00004730  07FB                                     6211+         BR    R11                return
00004734                                           6212+RE192    DC    0F
00004734                                           6213+         DROP  R5
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004734  0FF00000 00000000                        6214          DC    XL16'0FF0000000000000000000000000000D'   V1 source
0000473C  00000000 0000000D
                                                   6215
                                                   6216          VRR_G VTPX,X'808B',0
00004748                                           6217+         DS    0FD
00004748                     00004748              6218+         USING *,R5               base for test data and test routine
00004748  00004764                                 6219+T193     DC    A(X193)            address of test routine
0000474C  00C1                                     6220+         DC    H'193'             test number
0000474E  00                                       6221+         DC    XL1'00'
0000474F  00                                       6222+         DC    HL1'0'             cc
00004750  07                                       6223+         DC    HL1'7'             cc failed mask
00004751  E5E3D7E7 40404040                        6224+         DC    CL8'VTPX'          instruction name
0000475C  00000010                                 6225+         DC    A(16)              result length
00004760  0000477C                                 6226+REA193   DC    A(RE193)           result address
                                                   6227+*                                   INSTRUCTION UNDER TEST ROUTINE
00004764                                           6228+X193     DS    0F
00004764  E710 5034 0006                0000477C   6229+         VL    V1,RE193           get V1 source

0000476A                                           6232+         DS    0H                       E65F VTP - Vector Test Decimal
0000476A  E6                                       6233+         DC    X'E6'
0000476B  01                                       6234+         DC    X'01'                    v1
0000476C  0808B0                                   6235+         DC    HL3'526512'              0, I3, RXB
0000476F  5F                                       6236+         DC    X'5F'

00004770  B98D 0020                                6238+         EPSW  R2,R0              exptract psw
00004774  5020 8E9C                     0000109C   6239+         ST    R2,CCPSW               to save CC
00004778  07FB                                     6240+         BR    R11                return
0000477C                                           6241+RE193    DC    0F
0000477C                                           6242+         DROP  R5
0000477C  0FF00000 00000000                        6243          DC    XL16'0FF0000000000000000000000000000F'   V1 source
00004784  00000000 0000000F
                                                   6244
                                                   6245 *                                   sign: F valid, non-0 digits
                                                   6246          VRR_G VTPX,X'8085',1
00004790                                           6247+         DS    0FD
00004790                     00004790              6248+         USING *,R5               base for test data and test routine
00004790  000047AC                                 6249+T194     DC    A(X194)            address of test routine
00004794  00C2                                     6250+         DC    H'194'             test number
00004796  00                                       6251+         DC    XL1'00'
00004797  01                                       6252+         DC    HL1'1'             cc
00004798  0B                                       6253+         DC    HL1'11'            cc failed mask
00004799  E5E3D7E7 40404040                        6254+         DC    CL8'VTPX'          instruction name
000047A4  00000010                                 6255+         DC    A(16)              result length
000047A8  000047C4                                 6256+REA194   DC    A(RE194)           result address
                                                   6257+*                                   INSTRUCTION UNDER TEST ROUTINE
000047AC                                           6258+X194     DS    0F
000047AC  E710 5034 0006                000047C4   6259+         VL    V1,RE194           get V1 source

000047B2                                           6262+         DS    0H                       E65F VTP - Vector Test Decimal
000047B2  E6                                       6263+         DC    X'E6'
000047B3  01                                       6264+         DC    X'01'                    v1
000047B4  080850                                   6265+         DC    HL3'526416'              0, I3, RXB
000047B7  5F                                       6266+         DC    X'5F'

000047B8  B98D 0020                                6268+         EPSW  R2,R0              exptract psw
000047BC  5020 8E9C                     0000109C   6269+         ST    R2,CCPSW               to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000047C0  07FB                                     6270+         BR    R11                 return
000047C4                                           6271+RE194    DC    0F
000047C4                                           6272+         DROP  R5
000047C4  0FF00000 00000000                        6273          DC    XL16'0FF000000000000000000000000100A'   V1 source
000047CC  00000000 0000100A
                                                   6274
                                                   6275          VRR_G VTPX,X'8087',1
000047D8                                           6276+         DS    0FD
000047D8                      000047D8             6277+         USING *,R5                base for test data and test routine
000047D8  000047F4                                 6278+T195     DC    A(X195)             address of test routine
000047DC  00C3                                     6279+         DC    H'195'              test number
000047DE  00                                       6280+         DC    XL1'00'
000047DF  01                                       6281+         DC    HL1'1'              cc
000047E0  0B                                       6282+         DC    HL1'11'             cc failed mask
000047E1  E5E3D7E7 40404040                        6283+         DC    CL8'VTPX'           instruction name
000047EC  00000010                                 6284+         DC    A(16)               result length
000047F0  0000480C                                 6285+REA195   DC    A(RE195)            result address
                                                   6286+*                                    INSTRUCTION UNDER TEST ROUTINE
000047F4                                           6287+X195     DS    0F
000047F4  E710 5034 0006                0000480C   6288+         VL    V1,RE195            get V1 source

000047FA                                           6291+         DS    0H                        E65F VTP - Vector Test Decimal
000047FA  E6                                       6292+         DC    X'E6'
000047FB  01                                       6293+         DC    X'01'                     v1
000047FC  080870                                   6294+         DC    HL3'526448'               0, I3, RXB
000047FF  5F                                       6295+         DC    X'5F'

00004800  B98D 0020                                6297+         EPSW  R2,R0               exptract psw
00004804  5020 8E9C                     0000109C   6298+         ST    R2,CCPSW                to save CC
00004808  07FB                                     6299+         BR    R11                 return
0000480C                                           6300+RE195    DC    0F
0000480C                                           6301+         DROP  R5
0000480C  0FF00000 00000000                        6302          DC    XL16'0FF000000000000000000000000100B'   V1 source
00004814  00000000 0000100B
                                                   6303
                                                   6304          VRR_G VTPX,X'8089',1
00004820                                           6305+         DS    0FD
00004820                      00004820             6306+         USING *,R5                base for test data and test routine
00004820  0000483C                                 6307+T196     DC    A(X196)             address of test routine
00004824  00C4                                     6308+         DC    H'196'              test number
00004826  00                                       6309+         DC    XL1'00'
00004827  01                                       6310+         DC    HL1'1'              cc
00004828  0B                                       6311+         DC    HL1'11'             cc failed mask
00004829  E5E3D7E7 40404040                        6312+         DC    CL8'VTPX'           instruction name
00004834  00000010                                 6313+         DC    A(16)               result length
00004838  00004854                                 6314+REA196   DC    A(RE196)            result address
                                                   6315+*                                    INSTRUCTION UNDER TEST ROUTINE
0000483C                                           6316+X196     DS    0F
0000483C  E710 5034 0006                00004854   6317+         VL    V1,RE196            get V1 source

00004842                                           6320+         DS    0H                        E65F VTP - Vector Test Decimal
00004842  E6                                       6321+         DC    X'E6'
00004843  01                                       6322+         DC    X'01'                     v1
00004844  080890                                   6323+         DC    HL3'526480'               0, I3, RXB
00004847  5F                                       6324+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004848  B98D 0020                               6326+         EPSW  R2,R0              exptract psw
0000484C  5020 8E9C                     0000109C  6327+         ST    R2,CCPSW              to save CC
00004850  07FB                                    6328+         BR    R11               return
00004854                                          6329+RE196    DC    0F
00004854                                          6330+         DROP  R5
00004854  0FF00000 00000000                       6331          DC    XL16'0FF00000000000000000000000100C'   V1 source
0000485C  00000000 0000100C
                                                  6332
                                                  6333          VRR_G VTPX,X'808B',1
00004868                                          6334+         DS    0FD
00004868                        00004868          6335+         USING *,R5              base for test data and test routine
00004868  00004884                                6336+T197     DC    A(X197)           address of test routine
0000486C  00C5                                    6337+         DC    H'197'            test number
0000486E  00                                      6338+         DC    XL1'00'
0000486F  01                                      6339+         DC    HL1'1'            cc
00004870  0B                                      6340+         DC    HL1'11'           cc failed mask
00004871  E5E3D7E7 40404040                       6341+         DC    CL8'VTPX'         instruction name
0000487C  00000010                                6342+         DC    A(16)             result length
00004880  0000489C                                6343+REA197   DC    A(RE197)          result address
                                                  6344+*                                  INSTRUCTION UNDER TEST ROUTINE
00004884                                          6345+X197     DS    0F
00004884  E710 5034 0006                0000489C  6346+         VL    V1,RE197          get V1 source

0000488A                                          6349+         DS    0H                      E65F VTP - Vector Test Decimal
0000488A  E6                                      6350+         DC    X'E6'
0000488B  01                                      6351+         DC    X'01'                   v1
0000488C  0808B0                                  6352+         DC    HL3'526512'             0, I3, RXB
0000488F  5F                                      6353+         DC    X'5F'

00004890  B98D 0020                               6355+         EPSW  R2,R0              exptract psw
00004894  5020 8E9C                     0000109C  6356+         ST    R2,CCPSW              to save CC
00004898  07FB                                    6357+         BR    R11               return
0000489C                                          6358+RE197    DC    0F
0000489C                                          6359+         DROP  R5
0000489C  0FF00000 00000000                       6360          DC    XL16'0FF00000000000000000000000100D'   V1 source
000048A4  00000000 0000100D
                                                  6361
                                                  6362          VRR_G VTPX,X'808D',1
000048B0                                          6363+         DS    0FD
000048B0                        000048B0          6364+         USING *,R5              base for test data and test routine
000048B0  000048CC                                6365+T198     DC    A(X198)           address of test routine
000048B4  00C6                                    6366+         DC    H'198'            test number
000048B6  00                                      6367+         DC    XL1'00'
000048B7  01                                      6368+         DC    HL1'1'            cc
000048B8  0B                                      6369+         DC    HL1'11'           cc failed mask
000048B9  E5E3D7E7 40404040                       6370+         DC    CL8'VTPX'         instruction name
000048C4  00000010                                6371+         DC    A(16)             result length
000048C8  000048E4                                6372+REA198   DC    A(RE198)          result address
                                                  6373+*                                  INSTRUCTION UNDER TEST ROUTINE
000048CC                                          6374+X198     DS    0F
000048CC  E710 5034 0006                000048E4  6375+         VL    V1,RE198          get V1 source

000048D2                                          6378+         DS    0H                      E65F VTP - Vector Test Decimal
000048D2  E6                                      6379+         DC    X'E6'
000048D3  01                                      6380+         DC    X'01'                   v1
000048D4  0808D0                                  6381+         DC    HL3'526544'             0, I3, RXB
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000048D7  5F                                       6382+         DC    X'5F'

000048D8  B98D 0020                                6384+         EPSW  R2,R0             exptract psw
000048DC  5020 8E9C                     0000109C   6385+         ST    R2,CCPSW              to save CC
000048E0  07FB                                     6386+         BR    R11               return
000048E4                                           6387+RE198    DC    0F
000048E4                                           6388+         DROP  R5
000048E4  0FF00000 00000000                        6389          DC    XL16'0FF00000000000000000000000100E'   V1 source
000048EC  00000000 0000100E
                                                   6390
                                                   6391          VRR_G VTPX,X'808F',0
000048F8                                           6392+         DS    0FD
000048F8                       000048F8            6393+         USING *,R5              base for test data and test routine
000048F8  00004914                                 6394+T199     DC    A(X199)           address of test routine
000048FC  00C7                                     6395+         DC    H'199'            test number
000048FE  00                                       6396+         DC    XL1'00'
000048FF  00                                       6397+         DC    HL1'0'            cc
00004900  07                                       6398+         DC    HL1'7'            cc failed mask
00004901  E5E3D7E7 40404040                        6399+         DC    CL8'VTPX'         instruction name
0000490C  00000010                                 6400+         DC    A(16)             result length
00004910  0000492C                                 6401+REA199   DC    A(RE199)          result address
                                                   6402+*                                  INSTRUCTION UNDER TEST ROUTINE
00004914                                           6403+X199     DS    0F
00004914  E710 5034 0006                0000492C   6404+         VL    V1,RE199          get V1 source

0000491A                                           6407+         DS    0H                      E65F VTP - Vector Test Decimal
0000491A  E6                                       6408+         DC    X'E6'
0000491B  01                                       6409+         DC    X'01'                   v1
0000491C  0808F0                                   6410+         DC    HL3'526576'             0, I3, RXB
0000491F  5F                                       6411+         DC    X'5F'

00004920  B98D 0020                                6413+         EPSW  R2,R0             exptract psw
00004924  5020 8E9C                     0000109C   6414+         ST    R2,CCPSW              to save CC
00004928  07FB                                     6415+         BR    R11               return
0000492C                                           6416+RE199    DC    0F
0000492C                                           6417+         DROP  R5
0000492C  0FF00000 00000000                        6418          DC    XL16'0FF00000000000000000000000100F'   V1 source
00004934  00000000 0000100F
                                                   6419
                                                   6420          VRR_G VTPX,X'808F',1
00004940                                           6421+         DS    0FD
00004940                       00004940            6422+         USING *,R5              base for test data and test routine
00004940  0000495C                                 6423+T200     DC    A(X200)           address of test routine
00004944  00C8                                     6424+         DC    H'200'            test number
00004946  00                                       6425+         DC    XL1'00'
00004947  01                                       6426+         DC    HL1'1'            cc
00004948  0B                                       6427+         DC    HL1'11'           cc failed mask
00004949  E5E3D7E7 40404040                        6428+         DC    CL8'VTPX'         instruction name
00004954  00000010                                 6429+         DC    A(16)             result length
00004958  00004974                                 6430+REA200   DC    A(RE200)          result address
                                                   6431+*                                  INSTRUCTION UNDER TEST ROUTINE
0000495C                                           6432+X200     DS    0F
0000495C  E710 5034 0006                00004974   6433+         VL    V1,RE200          get V1 source

00004962                                           6436+         DS    0H                      E65F VTP - Vector Test Decimal
00004962  E6                                       6437+         DC    X'E6'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004963  01                                       6438+         DC    X'01'                    v1
00004964  0808F0                                   6439+         DC    HL3'526576'              0, I3, RXB
00004967  5F                                       6440+         DC    X'5F'

00004968  B98D 0020                                6442+         EPSW  R2,R0              exptract psw
0000496C  5020 8E9C                     0000109C   6443+         ST    R2,CCPSW               to save CC
00004970  07FB                                     6444+         BR    R11                return
00004974                                           6445+RE200    DC    0F
00004974                                           6446+         DROP  R5
00004974  0FF00000 00000000                        6447          DC    XL16'0FF00000000000000000000000001000'   V1 source
0000497C  00000000 00001000
                                                   6448
                                                   6449          VRR_G VTPX,X'808F',2
00004988                                           6450+         DS    0FD
00004988                        00004988           6451+         USING *,R5               base for test data and test routine
00004988  000049A4                                 6452+T201     DC    A(X201)            address of test routine
0000498C  00C9                                     6453+         DC    H'201'             test number
0000498E  00                                       6454+         DC    XL1'00'
0000498F  02                                       6455+         DC    HL1'2'             cc
00004990  0D                                       6456+         DC    HL1'13'            cc failed mask
00004991  E5E3D7E7 40404040                        6457+         DC    CL8'VTPX'          instruction name
0000499C  00000010                                 6458+         DC    A(16)              result length
000049A0  000049BC                                 6459+REA201   DC    A(RE201)           result address
                                                   6460+*                                 INSTRUCTION UNDER TEST ROUTINE
000049A4                                           6461+X201     DS    0F
000049A4  E710 5034 0006                000049BC   6462+         VL    V1,RE201           get V1 source

000049AA                                           6465+         DS    0H                       E65F VTP - Vector Test Decimal
000049AA  E6                                       6466+         DC    X'E6'
000049AB  01                                       6467+         DC    X'01'                    v1
000049AC  0808F0                                   6468+         DC    HL3'526576'              0, I3, RXB
000049AF  5F                                       6469+         DC    X'5F'

000049B0  B98D 0020                                6471+         EPSW  R2,R0              exptract psw
000049B4  5020 8E9C                     0000109C   6472+         ST    R2,CCPSW               to save CC
000049B8  07FB                                     6473+         BR    R11                return
000049BC                                           6474+RE201    DC    0F
000049BC                                           6475+         DROP  R5
000049BC  0FF00000 00000000                        6476          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000049C4  00000000 0000F00F
                                                   6477
                                                   6478          VRR_G VTPX,X'808F',3
000049D0                                           6479+         DS    0FD
000049D0                        000049D0           6480+         USING *,R5               base for test data and test routine
000049D0  000049EC                                 6481+T202     DC    A(X202)            address of test routine
000049D4  00CA                                     6482+         DC    H'202'             test number
000049D6  00                                       6483+         DC    XL1'00'
000049D7  03                                       6484+         DC    HL1'3'             cc
000049D8  0E                                       6485+         DC    HL1'14'            cc failed mask
000049D9  E5E3D7E7 40404040                        6486+         DC    CL8'VTPX'          instruction name
000049E4  00000010                                 6487+         DC    A(16)              result length
000049E8  00004A04                                 6488+REA202   DC    A(RE202)           result address
                                                   6489+*                                 INSTRUCTION UNDER TEST ROUTINE
000049EC                                           6490+X202     DS    0F
000049EC  E710 5034 0006                00004A04   6491+         VL    V1,RE202           get V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000049F2                                           6494+         DS    0H                      E65F VTP - Vector Test Decimal
000049F2  E6                                       6495+         DC    X'E6'
000049F3  01                                       6496+         DC    X'01'                   v1
000049F4  0808F0                                   6497+         DC    HL3'526576'             0, I3, RXB
000049F7  5F                                       6498+         DC    X'5F'

000049F8  B98D 0020                                6500+         EPSW  R2,R0             exptract psw
000049FC  5020 8E9C                     0000109C   6501+         ST    R2,CCPSW              to save CC
00004A00  07FB                                     6502+         BR    R11               return
00004A04                                           6503+RE202    DC    0F
00004A04                                           6504+         DROP  R5
00004A04  0FF00000 00000000                        6505          DC    XL16'0FF0000000000000000000000F009'   V1 source
00004A0C  00000000 0000F009
                                                   6506
                                                   6507 * BTP=0, STC=4, DC>0 and even
                                                   6508 *                                sign: F valid, 0 digits
                                                   6509          VRR_G VTPX,X'8086',1
00004A18                                           6510+         DS    0FD
00004A18                        00004A18           6511+         USING *,R5              base for test data and test routine
00004A18  00004A34                                 6512+T203     DC    A(X203)           address of test routine
00004A1C  00CB                                     6513+         DC    H'203'            test number
00004A1E  00                                       6514+         DC    XL1'00'
00004A1F  01                                       6515+         DC    HL1'1'            cc
00004A20  0B                                       6516+         DC    HL1'11'           cc failed mask
00004A21  E5E3D7E7 40404040                        6517+         DC    CL8'VTPX'         instruction name
00004A2C  00000010                                 6518+         DC    A(16)             result length
00004A30  00004A4C                                 6519+REA203   DC    A(RE203)          result address
                                                   6520+*                                  INSTRUCTION UNDER TEST ROUTINE
00004A34                                           6521+X203     DS    0F
00004A34  E710 5034 0006                00004A4C   6522+         VL    V1,RE203          get V1 source

00004A3A                                           6525+         DS    0H                      E65F VTP - Vector Test Decimal
00004A3A  E6                                       6526+         DC    X'E6'
00004A3B  01                                       6527+         DC    X'01'                   v1
00004A3C  080860                                   6528+         DC    HL3'526432'             0, I3, RXB
00004A3F  5F                                       6529+         DC    X'5F'

00004A40  B98D 0020                                6531+         EPSW  R2,R0             exptract psw
00004A44  5020 8E9C                     0000109C   6532+         ST    R2,CCPSW              to save CC
00004A48  07FB                                     6533+         BR    R11               return
00004A4C                                           6534+RE203    DC    0F
00004A4C                                           6535+         DROP  R5
00004A4C  0FF00000 00000000                        6536          DC    XL16'0FF0000000000000000000000000B'   V1 source
00004A54  00000000 0000000B
                                                   6537
                                                   6538          VRR_G VTPX,X'808A',1
00004A60                                           6539+         DS    0FD
00004A60                        00004A60           6540+         USING *,R5              base for test data and test routine
00004A60  00004A7C                                 6541+T204     DC    A(X204)           address of test routine
00004A64  00CC                                     6542+         DC    H'204'            test number
00004A66  00                                       6543+         DC    XL1'00'
00004A67  01                                       6544+         DC    HL1'1'            cc
00004A68  0B                                       6545+         DC    HL1'11'           cc failed mask
00004A69  E5E3D7E7 40404040                        6546+         DC    CL8'VTPX'         instruction name
00004A74  00000010                                 6547+         DC    A(16)             result length
00004A78  00004A94                                 6548+REA204   DC    A(RE204)          result address
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   6549+*                                INSTRUCTION UNDER TEST ROUTINE
00004A7C                                           6550+X204     DS    0F
00004A7C  E710 5034 0006                00004A94   6551+         VL    V1,RE204          get V1 source

00004A82                                           6554+         DS    0H                      E65F VTP - Vector Test Decimal
00004A82  E6                                       6555+         DC    X'E6'
00004A83  01                                       6556+         DC    X'01'                   v1
00004A84  0808A0                                   6557+         DC    HL3'526496'             0, I3, RXB
00004A87  5F                                       6558+         DC    X'5F'

00004A88  B98D 0020                                6560+         EPSW  R2,R0             exptract psw
00004A8C  5020 8E9C                     0000109C   6561+         ST    R2,CCPSW              to save CC
00004A90  07FB                                     6562+         BR    R11               return
00004A94                                           6563+RE204    DC    0F
00004A94                                           6564+         DROP  R5
00004A94  0FF00000 00000000                        6565          DC    XL16'0FF0000000000000000000000000000C'   V1 source
00004A9C  00000000 0000000C
                                                   6566
                                                   6567          VRR_G VTPX,X'808A',1
00004AA8                                           6568+         DS    0FD
00004AA8                        00004AA8           6569+         USING *,R5              base for test data and test routine
00004AA8  00004AC4                                 6570+T205     DC    A(X205)           address of test routine
00004AAC  00CD                                     6571+         DC    H'205'            test number
00004AAE  00                                       6572+         DC    XL1'00'
00004AAF  01                                       6573+         DC    HL1'1'            cc
00004AB0  0B                                       6574+         DC    HL1'11'           cc failed mask
00004AB1  E5E3D7E7 40404040                        6575+         DC    CL8'VTPX'         instruction name
00004ABC  00000010                                 6576+         DC    A(16)             result length
00004AC0  00004ADC                                 6577+REA205   DC    A(RE205)          result address
                                                   6578+*                                INSTRUCTION UNDER TEST ROUTINE
00004AC4                                           6579+X205     DS    0F
00004AC4  E710 5034 0006                00004ADC   6580+         VL    V1,RE205          get V1 source

00004ACA                                           6583+         DS    0H                      E65F VTP - Vector Test Decimal
00004ACA  E6                                       6584+         DC    X'E6'
00004ACB  01                                       6585+         DC    X'01'                   v1
00004ACC  0808A0                                   6586+         DC    HL3'526496'             0, I3, RXB
00004ACF  5F                                       6587+         DC    X'5F'

00004AD0  B98D 0020                                6589+         EPSW  R2,R0             exptract psw
00004AD4  5020 8E9C                     0000109C   6590+         ST    R2,CCPSW              to save CC
00004AD8  07FB                                     6591+         BR    R11               return
00004ADC                                           6592+RE205    DC    0F
00004ADC                                           6593+         DROP  R5
00004ADC  0FF00000 00000000                        6594          DC    XL16'0FF0000000000000000000000000000D'   V1 source
00004AE4  00000000 0000000D
                                                   6595
                                                   6596          VRR_G VTPX,X'808A',0
00004AF0                                           6597+         DS    0FD
00004AF0                        00004AF0           6598+         USING *,R5              base for test data and test routine
00004AF0  00004B0C                                 6599+T206     DC    A(X206)           address of test routine
00004AF4  00CE                                     6600+         DC    H'206'            test number
00004AF6  00                                       6601+         DC    XL1'00'
00004AF7  00                                       6602+         DC    HL1'0'            cc
00004AF8  07                                       6603+         DC    HL1'7'            cc failed mask
00004AF9  E5E3D7E7 40404040                        6604+         DC    CL8'VTPX'         instruction name
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004B04  00000010                                 6605+         DC    A(16)              result length
00004B08  00004B24                                 6606+REA206   DC    A(RE206)           result address
                                                   6607+*                                   INSTRUCTION UNDER TEST ROUTINE
00004B0C                                           6608+X206     DS    0F
00004B0C  E710 5034 0006                 00004B24  6609+         VL    V1,RE206           get V1 source

00004B12                                           6612+         DS    0H                       E65F VTP - Vector Test Decimal
00004B12  E6                                       6613+         DC    X'E6'
00004B13  01                                       6614+         DC    X'01'                    v1
00004B14  0808A0                                   6615+         DC    HL3'526496'              0, I3, RXB
00004B17  5F                                       6616+         DC    X'5F'

00004B18  B98D 0020                                6618+         EPSW  R2,R0              exptract psw
00004B1C  5020 8E9C                      0000109C  6619+         ST    R2,CCPSW               to save CC
00004B20  07FB                                     6620+         BR    R11                return
00004B24                                           6621+RE206    DC    0F
00004B24                                           6622+         DROP  R5
00004B24  0FF00000 00000000                        6623          DC    XL16'0FF00000000000000000000000000F'   V1 source
00004B2C  00000000 0000000F
                                                   6624
                                                   6625 *                                   sign: F valid, non-0 digits
                                                   6626          VRR_G VTPX,X'8084',1
00004B38                                           6627+         DS    0FD
00004B38                         00004B38          6628+         USING *,R5               base for test data and test routine
00004B38  00004B54                                 6629+T207     DC    A(X207)            address of test routine
00004B3C  00CF                                     6630+         DC    H'207'             test number
00004B3E  00                                       6631+         DC    XL1'00'
00004B3F  01                                       6632+         DC    HL1'1'             cc
00004B40  0B                                       6633+         DC    HL1'11'            cc failed mask
00004B41  E5E3D7E7 40404040                        6634+         DC    CL8'VTPX'          instruction name
00004B4C  00000010                                 6635+         DC    A(16)              result length
00004B50  00004B6C                                 6636+REA207   DC    A(RE207)           result address
                                                   6637+*                                   INSTRUCTION UNDER TEST ROUTINE
00004B54                                           6638+X207     DS    0F
00004B54  E710 5034 0006                 00004B6C  6639+         VL    V1,RE207           get V1 source

00004B5A                                           6642+         DS    0H                       E65F VTP - Vector Test Decimal
00004B5A  E6                                       6643+         DC    X'E6'
00004B5B  01                                       6644+         DC    X'01'                    v1
00004B5C  080840                                   6645+         DC    HL3'526400'              0, I3, RXB
00004B5F  5F                                       6646+         DC    X'5F'

00004B60  B98D 0020                                6648+         EPSW  R2,R0              exptract psw
00004B64  5020 8E9C                      0000109C  6649+         ST    R2,CCPSW               to save CC
00004B68  07FB                                     6650+         BR    R11                return
00004B6C                                           6651+RE207    DC    0F
00004B6C                                           6652+         DROP  R5
00004B6C  0FF00000 00000000                        6653          DC    XL16'0FF00000000000000000000000100A'   V1 source
00004B74  00000000 0000100A
                                                   6654
                                                   6655          VRR_G VTPX,X'8086',1
00004B80                                           6656+         DS    0FD
00004B80                         00004B80          6657+         USING *,R5               base for test data and test routine
00004B80  00004B9C                                 6658+T208     DC    A(X208)            address of test routine
00004B84  00D0                                     6659+         DC    H'208'             test number
00004B86  00                                       6660+         DC    XL1'00'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004B87  01                                      6661+         DC    HL1'1'            cc
00004B88  0B                                      6662+         DC    HL1'11'           cc failed mask
00004B89  E5E3D7E7 40404040                       6663+         DC    CL8'VTPX'         instruction name
00004B94  00000010                                6664+         DC    A(16)             result length
00004B98  00004BB4                                6665+REA208   DC    A(RE208)          result address
                                                  6666+*                                  INSTRUCTION UNDER TEST ROUTINE
00004B9C                                          6667+X208     DS    0F
00004B9C  E710 5034 0006                00004BB4  6668+         VL    V1,RE208          get V1 source

00004BA2                                          6671+         DS    0H                      E65F VTP - Vector Test Decimal
00004BA2  E6                                      6672+         DC    X'E6'
00004BA3  01                                      6673+         DC    X'01'                   v1
00004BA4  080860                                  6674+         DC    HL3'526432'             0, I3, RXB
00004BA7  5F                                      6675+         DC    X'5F'

00004BA8  B98D 0020                               6677+         EPSW  R2,R0             exptract psw
00004BAC  5020 8E9C                     0000109C  6678+         ST    R2,CCPSW              to save CC
00004BB0  07FB                                    6679+         BR    R11               return
00004BB4                                          6680+RE208    DC    0F
00004BB4                                          6681+         DROP  R5
00004BB4  0FF00000 00000000                       6682          DC    XL16'0FF00000000000000000000000100B'   V1 source
00004BBC  00000000 0000100B
                                                  6683
                                                  6684          VRR_G VTPX,X'8088',1
00004BC8                                          6685+         DS    0FD
00004BC8                      00004BC8            6686+         USING *,R5              base for test data and test routine
00004BC8  00004BE4                                6687+T209     DC    A(X209)           address of test routine
00004BCC  00D1                                    6688+         DC    H'209'            test number
00004BCE  00                                      6689+         DC    XL1'00'
00004BCF  01                                      6690+         DC    HL1'1'            cc
00004BD0  0B                                      6691+         DC    HL1'11'           cc failed mask
00004BD1  E5E3D7E7 40404040                       6692+         DC    CL8'VTPX'         instruction name
00004BDC  00000010                                6693+         DC    A(16)             result length
00004BE0  00004BFC                                6694+REA209   DC    A(RE209)          result address
                                                  6695+*                                  INSTRUCTION UNDER TEST ROUTINE
00004BE4                                          6696+X209     DS    0F
00004BE4  E710 5034 0006                00004BFC  6697+         VL    V1,RE209          get V1 source

00004BEA                                          6700+         DS    0H                      E65F VTP - Vector Test Decimal
00004BEA  E6                                      6701+         DC    X'E6'
00004BEB  01                                      6702+         DC    X'01'                   v1
00004BEC  080880                                  6703+         DC    HL3'526464'             0, I3, RXB
00004BEF  5F                                      6704+         DC    X'5F'

00004BF0  B98D 0020                               6706+         EPSW  R2,R0             exptract psw
00004BF4  5020 8E9C                     0000109C  6707+         ST    R2,CCPSW              to save CC
00004BF8  07FB                                    6708+         BR    R11               return
00004BFC                                          6709+RE209    DC    0F
00004BFC                                          6710+         DROP  R5
00004BFC  0FF00000 00000000                       6711          DC    XL16'0FF00000000000000000000000100C'   V1 source
00004C04  00000000 0000100C
                                                  6712
                                                  6713          VRR_G VTPX,X'808A',1
00004C10                                          6714+         DS    0FD
00004C10                      00004C10            6715+         USING *,R5              base for test data and test routine
00004C10  00004C2C                                6716+T210     DC    A(X210)           address of test routine
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004C14  00D2                                     6717+         DC    H'210'            test number
00004C16  00                                       6718+         DC    XL1'00'
00004C17  01                                       6719+         DC    HL1'1'            cc
00004C18  0B                                       6720+         DC    HL1'11'           cc failed mask
00004C19  E5E3D7E7 40404040                        6721+         DC    CL8'VTPX'         instruction name
00004C24  00000010                                 6722+         DC    A(16)             result length
00004C28  00004C44                                 6723+REA210   DC    A(RE210)          result address
                                                   6724+*                                  INSTRUCTION UNDER TEST ROUTINE
00004C2C                                           6725+X210     DS    0F
00004C2C  E710 5034 0006                00004C44   6726+         VL    V1,RE210          get V1 source

00004C32                                           6729+         DS    0H                      E65F VTP - Vector Test Decimal
00004C32  E6                                       6730+         DC    X'E6'
00004C33  01                                       6731+         DC    X'01'                   v1
00004C34  0808A0                                   6732+         DC    HL3'526496'             0, I3, RXB
00004C37  5F                                       6733+         DC    X'5F'

00004C38  B98D 0020                                6735+         EPSW  R2,R0             exptract psw
00004C3C  5020 8E9C                     0000109C   6736+         ST    R2,CCPSW              to save CC
00004C40  07FB                                     6737+         BR    R11               return
00004C44                                           6738+RE210    DC    0F
00004C44                                           6739+         DROP  R5
00004C44  0FF00000 00000000                        6740          DC    XL16'0FF00000000000000000000000100D'   V1 source
00004C4C  00000000 0000100D
                                                   6741
                                                   6742          VRR_G VTPX,X'808C',1
00004C58                                           6743+         DS    0FD
00004C58                        00004C58           6744+         USING *,R5              base for test data and test routine
00004C58  00004C74                                 6745+T211     DC    A(X211)           address of test routine
00004C5C  00D3                                     6746+         DC    H'211'            test number
00004C5E  00                                       6747+         DC    XL1'00'
00004C5F  01                                       6748+         DC    HL1'1'            cc
00004C60  0B                                       6749+         DC    HL1'11'           cc failed mask
00004C61  E5E3D7E7 40404040                        6750+         DC    CL8'VTPX'         instruction name
00004C6C  00000010                                 6751+         DC    A(16)             result length
00004C70  00004C8C                                 6752+REA211   DC    A(RE211)          result address
                                                   6753+*                                  INSTRUCTION UNDER TEST ROUTINE
00004C74                                           6754+X211     DS    0F
00004C74  E710 5034 0006                00004C8C   6755+         VL    V1,RE211          get V1 source

00004C7A                                           6758+         DS    0H                      E65F VTP - Vector Test Decimal
00004C7A  E6                                       6759+         DC    X'E6'
00004C7B  01                                       6760+         DC    X'01'                   v1
00004C7C  0808C0                                   6761+         DC    HL3'526528'             0, I3, RXB
00004C7F  5F                                       6762+         DC    X'5F'

00004C80  B98D 0020                                6764+         EPSW  R2,R0             exptract psw
00004C84  5020 8E9C                     0000109C   6765+         ST    R2,CCPSW              to save CC
00004C88  07FB                                     6766+         BR    R11               return
00004C8C                                           6767+RE211    DC    0F
00004C8C                                           6768+         DROP  R5
00004C8C  0FF00000 00000000                        6769          DC    XL16'0FF00000000000000000000000100E'   V1 source
00004C94  00000000 0000100E
                                                   6770
                                                   6771          VRR_G VTPX,X'808E',0
00004CA0                                           6772+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004CA0                     00004CA0              6773+         USING *,R5              base for test data and test routine
00004CA0  00004CBC                                 6774+T212     DC    A(X212)           address of test routine
00004CA4  00D4                                     6775+         DC    H'212'            test number
00004CA6  00                                       6776+         DC    XL1'00'
00004CA7  00                                       6777+         DC    HL1'0'            cc
00004CA8  07                                       6778+         DC    HL1'7'            cc failed mask
00004CA9  E5E3D7E7 40404040                        6779+         DC    CL8'VTPX'         instruction name
00004CB4  00000010                                 6780+         DC    A(16)             result length
00004CB8  00004CD4                                 6781+REA212   DC    A(RE212)          result address
                                                   6782+*                                  INSTRUCTION UNDER TEST ROUTINE
00004CBC                                           6783+X212     DS    0F
00004CBC  E710 5034 0006                00004CD4   6784+         VL    V1,RE212          get V1 source

00004CC2                                           6787+         DS    0H                      E65F VTP - Vector Test Decimal
00004CC2  E6                                       6788+         DC    X'E6'
00004CC3  01                                       6789+         DC    X'01'                   v1
00004CC4  0808E0                                   6790+         DC    HL3'526560'             0, I3, RXB
00004CC7  5F                                       6791+         DC    X'5F'

00004CC8  B98D 0020                                6793+         EPSW  R2,R0             exptract psw
00004CCC  5020 8E9C                     0000109C   6794+         ST    R2,CCPSW              to save CC
00004CD0  07FB                                     6795+         BR    R11               return
00004CD4                                           6796+RE212    DC    0F
00004CD4                                           6797+         DROP  R5
00004CD4  0FF00000 00000000                        6798          DC    XL16'0FF00000000000000000000000100F'   V1 source
00004CDC  00000000 0000100F
                                                   6799
                                                   6800          VRR_G VTPX,X'808E',1
00004CE8                                           6801+         DS    0FD
00004CE8                     00004CE8              6802+         USING *,R5              base for test data and test routine
00004CE8  00004D04                                 6803+T213     DC    A(X213)           address of test routine
00004CEC  00D5                                     6804+         DC    H'213'            test number
00004CEE  00                                       6805+         DC    XL1'00'
00004CEF  01                                       6806+         DC    HL1'1'            cc
00004CF0  0B                                       6807+         DC    HL1'11'           cc failed mask
00004CF1  E5E3D7E7 40404040                        6808+         DC    CL8'VTPX'         instruction name
00004CFC  00000010                                 6809+         DC    A(16)             result length
00004D00  00004D1C                                 6810+REA213   DC    A(RE213)          result address
                                                   6811+*                                  INSTRUCTION UNDER TEST ROUTINE
00004D04                                           6812+X213     DS    0F
00004D04  E710 5034 0006                00004D1C   6813+         VL    V1,RE213          get V1 source

00004D0A                                           6816+         DS    0H                      E65F VTP - Vector Test Decimal
00004D0A  E6                                       6817+         DC    X'E6'
00004D0B  01                                       6818+         DC    X'01'                   v1
00004D0C  0808E0                                   6819+         DC    HL3'526560'             0, I3, RXB
00004D0F  5F                                       6820+         DC    X'5F'

00004D10  B98D 0020                                6822+         EPSW  R2,R0             exptract psw
00004D14  5020 8E9C                     0000109C   6823+         ST    R2,CCPSW              to save CC
00004D18  07FB                                     6824+         BR    R11               return
00004D1C                                           6825+RE213    DC    0F
00004D1C                                           6826+         DROP  R5
00004D1C  0FF00000 00000000                        6827          DC    XL16'0FF00000000000000000000001000'   V1 source
00004D24  00000000 00001000
                                                   6828
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   6829          VRR_G VTPX,X'808E',2
00004D30                                           6830+         DS    0FD
00004D30                     00004D30              6831+         USING *,R5              base for test data and test routine
00004D30  00004D4C                                 6832+T214     DC    A(X214)           address of test routine
00004D34  00D6                                     6833+         DC    H'214'            test number
00004D36  00                                       6834+         DC    XL1'00'
00004D37  02                                       6835+         DC    HL1'2'            cc
00004D38  0D                                       6836+         DC    HL1'13'           cc failed mask
00004D39  E5E3D7E7 40404040                        6837+         DC    CL8'VTPX'         instruction name
00004D44  00000010                                 6838+         DC    A(16)             result length
00004D48  00004D64                                 6839+REA214   DC    A(RE214)          result address
                                                   6840+*                                  INSTRUCTION UNDER TEST ROUTINE
00004D4C                                           6841+X214     DS    0F
00004D4C  E710 5034 0006                00004D64   6842+         VL    V1,RE214          get V1 source

00004D52                                           6845+         DS    0H                      E65F VTP - Vector Test Decimal
00004D52  E6                                       6846+         DC    X'E6'
00004D53  01                                       6847+         DC    X'01'                   v1
00004D54  0808E0                                   6848+         DC    HL3'526560'             0, I3, RXB
00004D57  5F                                       6849+         DC    X'5F'

00004D58  B98D 0020                                6851+         EPSW  R2,R0             exptract psw
00004D5C  5020 8E9C                     0000109C   6852+         ST    R2,CCPSW              to save CC
00004D60  07FB                                     6853+         BR    R11               return
00004D64                                           6854+RE214    DC    0F
00004D64                                           6855+         DROP  R5
00004D64  0FF00000 00000000                        6856          DC    XL16'0FF000000000000000000000000F00F'   V1 source
00004D6C  00000000 0000F00F
                                                   6857
                                                   6858          VRR_G VTPX,X'808E',3
00004D78                                           6859+         DS    0FD
00004D78                     00004D78              6860+         USING *,R5              base for test data and test routine
00004D78  00004D94                                 6861+T215     DC    A(X215)           address of test routine
00004D7C  00D7                                     6862+         DC    H'215'            test number
00004D7E  00                                       6863+         DC    XL1'00'
00004D7F  03                                       6864+         DC    HL1'3'            cc
00004D80  0E                                       6865+         DC    HL1'14'           cc failed mask
00004D81  E5E3D7E7 40404040                        6866+         DC    CL8'VTPX'         instruction name
00004D8C  00000010                                 6867+         DC    A(16)             result length
00004D90  00004DAC                                 6868+REA215   DC    A(RE215)          result address
                                                   6869+*                                  INSTRUCTION UNDER TEST ROUTINE
00004D94                                           6870+X215     DS    0F
00004D94  E710 5034 0006                00004DAC   6871+         VL    V1,RE215          get V1 source

00004D9A                                           6874+         DS    0H                      E65F VTP - Vector Test Decimal
00004D9A  E6                                       6875+         DC    X'E6'
00004D9B  01                                       6876+         DC    X'01'                   v1
00004D9C  0808E0                                   6877+         DC    HL3'526560'             0, I3, RXB
00004D9F  5F                                       6878+         DC    X'5F'

00004DA0  B98D 0020                                6880+         EPSW  R2,R0             exptract psw
00004DA4  5020 8E9C                     0000109C   6881+         ST    R2,CCPSW              to save CC
00004DA8  07FB                                     6882+         BR    R11               return
00004DAC                                           6883+RE215    DC    0F
00004DAC                                           6884+         DROP  R5
00004DAC  0FF00000 00000000                        6885          DC    XL16'0FF000000000000000000000000F009'   V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004DB4  00000000 0000F009
                                                   6886
                                                   6887 * BTP=1, STC=4, DC>0 and even
                                                   6888 *                                    sign: F    valid, 0 digits
                                                   6889          VRR_G VTPX,X'C086',1
00004DC0                                           6890+         DS    0FD
00004DC0                      00004DC0             6891+         USING *,R5              base for test data and test routine
00004DC0  00004DDC                                 6892+T216     DC    A(X216)           address of test routine
00004DC4  00D8                                     6893+         DC    H'216'            test number
00004DC6  00                                       6894+         DC    XL1'00'
00004DC7  01                                       6895+         DC    HL1'1'            cc
00004DC8  0B                                       6896+         DC    HL1'11'           cc failed mask
00004DC9  E5E3D7E7 40404040                        6897+         DC    CL8'VTPX'         instruction name
00004DD4  00000010                                 6898+         DC    A(16)             result length
00004DD8  00004DF4                                 6899+REA216   DC    A(RE216)          result address
                                                   6900+*                                  INSTRUCTION UNDER TEST ROUTINE
00004DDC                                           6901+X216     DS    0F
00004DDC  E710 5034 0006                00004DF4   6902+         VL    V1,RE216          get V1 source

00004DE2                                           6905+         DS    0H                      E65F VTP - Vector Test Decimal
00004DE2  E6                                       6906+         DC    X'E6'
00004DE3  01                                       6907+         DC    X'01'                   v1
00004DE4  0C0860                                   6908+         DC    HL3'788576'             0, I3, RXB
00004DE7  5F                                       6909+         DC    X'5F'

00004DE8  B98D 0020                                6911+         EPSW  R2,R0             exptract psw
00004DEC  5020 8E9C                     0000109C   6912+         ST    R2,CCPSW                to save CC
00004DF0  07FB                                     6913+         BR    R11               return
00004DF4                                           6914+RE216    DC    0F
00004DF4                                           6915+         DROP  R5
00004DF4  0FF00000 00000000                        6916          DC    XL16'0FF0000000000000000000000000000B'   V1 source
00004DFC  00000000 0000000B
                                                   6917
                                                   6918          VRR_G VTPX,X'C08A',1
00004E08                                           6919+         DS    0FD
00004E08                      00004E08             6920+         USING *,R5              base for test data and test routine
00004E08  00004E24                                 6921+T217     DC    A(X217)           address of test routine
00004E0C  00D9                                     6922+         DC    H'217'            test number
00004E0E  00                                       6923+         DC    XL1'00'
00004E0F  01                                       6924+         DC    HL1'1'            cc
00004E10  0B                                       6925+         DC    HL1'11'           cc failed mask
00004E11  E5E3D7E7 40404040                        6926+         DC    CL8'VTPX'         instruction name
00004E1C  00000010                                 6927+         DC    A(16)             result length
00004E20  00004E3C                                 6928+REA217   DC    A(RE217)          result address
                                                   6929+*                                  INSTRUCTION UNDER TEST ROUTINE
00004E24                                           6930+X217     DS    0F
00004E24  E710 5034 0006                00004E3C   6931+         VL    V1,RE217          get V1 source

00004E2A                                           6934+         DS    0H                      E65F VTP - Vector Test Decimal
00004E2A  E6                                       6935+         DC    X'E6'
00004E2B  01                                       6936+         DC    X'01'                   v1
00004E2C  0C08A0                                   6937+         DC    HL3'788640'             0, I3, RXB
00004E2F  5F                                       6938+         DC    X'5F'

00004E30  B98D 0020                                6940+         EPSW  R2,R0             exptract psw
00004E34  5020 8E9C                     0000109C   6941+         ST    R2,CCPSW                to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004E38  07FB                                     6942+         BR    R11                 return
00004E3C                                           6943+RE217    DC    0F
00004E3C                                           6944+         DROP  R5
00004E3C  0FF00000 00000000                        6945          DC    XL16'0FF0000000000000000000000000000C'   V1 source
00004E44  00000000 0000000C
                                                   6946
                                                   6947          VRR_G VTPX,X'C08A',1
00004E50                                           6948+         DS    0FD
00004E50                      00004E50             6949+         USING *,R5                base for test data and test routine
00004E50  00004E6C                                 6950+T218     DC    A(X218)             address of test routine
00004E54  00DA                                     6951+         DC    H'218'              test number
00004E56  00                                       6952+         DC    XL1'00'
00004E57  01                                       6953+         DC    HL1'1'              cc
00004E58  0B                                       6954+         DC    HL1'11'             cc failed mask
00004E59  E5E3D7E7 40404040                        6955+         DC    CL8'VTPX'           instruction name
00004E64  00000010                                 6956+         DC    A(16)               result length
00004E68  00004E84                                 6957+REA218   DC    A(RE218)            result address
                                                   6958+*                                    INSTRUCTION UNDER TEST ROUTINE
00004E6C                                           6959+X218     DS    0F
00004E6C  E710 5034 0006                00004E84   6960+         VL    V1,RE218            get V1 source

00004E72                                           6963+         DS    0H                        E65F VTP - Vector Test Decimal
00004E72  E6                                       6964+         DC    X'E6'
00004E73  01                                       6965+         DC    X'01'                     v1
00004E74  0C08A0                                   6966+         DC    HL3'788640'               0, I3, RXB
00004E77  5F                                       6967+         DC    X'5F'

00004E78  B98D 0020                                6969+         EPSW  R2,R0               exptract psw
00004E7C  5020 8E9C                     0000109C   6970+         ST    R2,CCPSW                to save CC
00004E80  07FB                                     6971+         BR    R11                 return
00004E84                                           6972+RE218    DC    0F
00004E84                                           6973+         DROP  R5
00004E84  0FF00000 00000000                        6974          DC    XL16'0FF0000000000000000000000000000D'   V1 source
00004E8C  00000000 0000000D
                                                   6975
                                                   6976          VRR_G VTPX,X'C08A',0
00004E98                                           6977+         DS    0FD
00004E98                      00004E98             6978+         USING *,R5                base for test data and test routine
00004E98  00004EB4                                 6979+T219     DC    A(X219)             address of test routine
00004E9C  00DB                                     6980+         DC    H'219'              test number
00004E9E  00                                       6981+         DC    XL1'00'
00004E9F  00                                       6982+         DC    HL1'0'              cc
00004EA0  07                                       6983+         DC    HL1'7'              cc failed mask
00004EA1  E5E3D7E7 40404040                        6984+         DC    CL8'VTPX'           instruction name
00004EAC  00000010                                 6985+         DC    A(16)               result length
00004EB0  00004ECC                                 6986+REA219   DC    A(RE219)            result address
                                                   6987+*                                    INSTRUCTION UNDER TEST ROUTINE
00004EB4                                           6988+X219     DS    0F
00004EB4  E710 5034 0006                00004ECC   6989+         VL    V1,RE219            get V1 source

00004EBA                                           6992+         DS    0H                        E65F VTP - Vector Test Decimal
00004EBA  E6                                       6993+         DC    X'E6'
00004EBB  01                                       6994+         DC    X'01'                     v1
00004EBC  0C08A0                                   6995+         DC    HL3'788640'               0, I3, RXB
00004EBF  5F                                       6996+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004EC0  B98D 0020                                6998+         EPSW  R2,R0              exptract psw
00004EC4  5020 8E9C                       0000109C 6999+         ST    R2,CCPSW               to save CC
00004EC8  07FB                                     7000+         BR    R11                return
00004ECC                                           7001+RE219    DC    0F
00004ECC                                           7002+         DROP  R5
00004ECC  0FF00000 00000000                        7003          DC    XL16'0FF00000000000000000000000000F'   V1 source
00004ED4  00000000 0000000F
                                                   7004
                                                   7005 *                                   sign: F  valid, non-0 digits
                                                   7006          VRR_G VTPX,X'C084',1
00004EE0                                           7007+         DS    0FD
00004EE0                          00004EE0         7008+         USING *,R5               base for test data and test routine
00004EE0  00004EFC                                 7009+T220     DC    A(X220)            address of test routine
00004EE4  00DC                                     7010+         DC    H'220'             test number
00004EE6  00                                       7011+         DC    XL1'00'
00004EE7  01                                       7012+         DC    HL1'1'             cc
00004EE8  0B                                       7013+         DC    HL1'11'            cc failed mask
00004EE9  E5E3D7E7 40404040                        7014+         DC    CL8'VTPX'          instruction name
00004EF4  00000010                                 7015+         DC    A(16)              result length
00004EF8  00004F14                                 7016+REA220   DC    A(RE220)           result address
                                                   7017+*                                   INSTRUCTION UNDER TEST ROUTINE
00004EFC                                           7018+X220     DS    0F
00004EFC  E710 5034 0006                  00004F14 7019+         VL    V1,RE220           get V1 source

00004F02                                           7022+         DS    0H                     E65F VTP - Vector Test Decimal
00004F02  E6                                       7023+         DC    X'E6'
00004F03  01                                       7024+         DC    X'01'                  v1
00004F04  0C0840                                   7025+         DC    HL3'788544'            0, I3, RXB
00004F07  5F                                       7026+         DC    X'5F'

00004F08  B98D 0020                                7028+         EPSW  R2,R0              exptract psw
00004F0C  5020 8E9C                       0000109C 7029+         ST    R2,CCPSW               to save CC
00004F10  07FB                                     7030+         BR    R11                return
00004F14                                           7031+RE220    DC    0F
00004F14                                           7032+         DROP  R5
00004F14  0FF00000 00000000                        7033          DC    XL16'0FF00000000000000000000000100A'   V1 source
00004F1C  00000000 0000100A
                                                   7034
                                                   7035          VRR_G VTPX,X'C086',1
00004F28                                           7036+         DS    0FD
00004F28                          00004F28         7037+         USING *,R5               base for test data and test routine
00004F28  00004F44                                 7038+T221     DC    A(X221)            address of test routine
00004F2C  00DD                                     7039+         DC    H'221'             test number
00004F2E  00                                       7040+         DC    XL1'00'
00004F2F  01                                       7041+         DC    HL1'1'             cc
00004F30  0B                                       7042+         DC    HL1'11'            cc failed mask
00004F31  E5E3D7E7 40404040                        7043+         DC    CL8'VTPX'          instruction name
00004F3C  00000010                                 7044+         DC    A(16)              result length
00004F40  00004F5C                                 7045+REA221   DC    A(RE221)           result address
                                                   7046+*                                   INSTRUCTION UNDER TEST ROUTINE
00004F44                                           7047+X221     DS    0F
00004F44  E710 5034 0006                  00004F5C 7048+         VL    V1,RE221           get V1 source

00004F4A                                           7051+         DS    0H                     E65F VTP - Vector Test Decimal
00004F4A  E6                                       7052+         DC    X'E6'
00004F4B  01                                       7053+         DC    X'01'                  v1
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004F4C  0C0860                                   7054+         DC    HL3'788576'             0, I3, RXB
00004F4F  5F                                       7055+         DC    X'5F'

00004F50  B98D 0020                                7057+         EPSW  R2,R0             exptract psw
00004F54  5020 8E9C                     0000109C   7058+         ST    R2,CCPSW              to save CC
00004F58  07FB                                     7059+         BR    R11               return
00004F5C                                           7060+RE221    DC    0F
00004F5C                                           7061+         DROP  R5
00004F5C  0FF00000 00000000                        7062          DC    XL16'0FF00000000000000000000000100B'   V1 source
00004F64  00000000 0000100B
                                                   7063
                                                   7064          VRR_G VTPX,X'C088',1
00004F70                                           7065+         DS    0FD
00004F70                        00004F70           7066+         USING *,R5              base for test data and test routine
00004F70  00004F8C                                 7067+T222     DC    A(X222)           address of test routine
00004F74  00DE                                     7068+         DC    H'222'            test number
00004F76  00                                       7069+         DC    XL1'00'
00004F77  01                                       7070+         DC    HL1'1'            cc
00004F78  0B                                       7071+         DC    HL1'11'           cc failed mask
00004F79  E5E3D7E7 40404040                        7072+         DC    CL8'VTPX'         instruction name
00004F84  00000010                                 7073+         DC    A(16)             result length
00004F88  00004FA4                                 7074+REA222   DC    A(RE222)          result address
                                                   7075+*                                  INSTRUCTION UNDER TEST ROUTINE
00004F8C                                           7076+X222     DS    0F
00004F8C  E710 5034 0006                00004FA4   7077+         VL    V1,RE222          get V1 source

00004F92                                           7080+         DS    0H                      E65F VTP - Vector Test Decimal
00004F92  E6                                       7081+         DC    X'E6'
00004F93  01                                       7082+         DC    X'01'                   v1
00004F94  0C0880                                   7083+         DC    HL3'788608'             0, I3, RXB
00004F97  5F                                       7084+         DC    X'5F'

00004F98  B98D 0020                                7086+         EPSW  R2,R0             exptract psw
00004F9C  5020 8E9C                     0000109C   7087+         ST    R2,CCPSW              to save CC
00004FA0  07FB                                     7088+         BR    R11               return
00004FA4                                           7089+RE222    DC    0F
00004FA4                                           7090+         DROP  R5
00004FA4  0FF00000 00000000                        7091          DC    XL16'0FF00000000000000000000000100C'   V1 source
00004FAC  00000000 0000100C
                                                   7092
                                                   7093          VRR_G VTPX,X'C08A',1
00004FB8                                           7094+         DS    0FD
00004FB8                        00004FB8           7095+         USING *,R5              base for test data and test routine
00004FB8  00004FD4                                 7096+T223     DC    A(X223)           address of test routine
00004FBC  00DF                                     7097+         DC    H'223'            test number
00004FBE  00                                       7098+         DC    XL1'00'
00004FBF  01                                       7099+         DC    HL1'1'            cc
00004FC0  0B                                       7100+         DC    HL1'11'           cc failed mask
00004FC1  E5E3D7E7 40404040                        7101+         DC    CL8'VTPX'         instruction name
00004FCC  00000010                                 7102+         DC    A(16)             result length
00004FD0  00004FEC                                 7103+REA223   DC    A(RE223)          result address
                                                   7104+*                                  INSTRUCTION UNDER TEST ROUTINE
00004FD4                                           7105+X223     DS    0F
00004FD4  E710 5034 0006                00004FEC   7106+         VL    V1,RE223          get V1 source

00004FDA                                           7109+         DS    0H                      E65F VTP - Vector Test Decimal
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004FDA  E6                                      7110+         DC    X'E6'
00004FDB  01                                      7111+         DC    X'01'                   v1
00004FDC  0C08A0                                  7112+         DC    HL3'788640'             0, I3, RXB
00004FDF  5F                                      7113+         DC    X'5F'

00004FE0  B98D 0020                               7115+         EPSW  R2,R0             exptract psw
00004FE4  5020 8E9C                     0000109C  7116+         ST    R2,CCPSW              to save CC
00004FE8  07FB                                    7117+         BR    R11               return
00004FEC                                          7118+RE223    DC    0F
00004FEC                                          7119+         DROP  R5
00004FEC  0FF00000 00000000                       7120          DC    XL16'0FF00000000000000000000000100D'   V1 source
00004FF4  00000000 0000100D
                                                  7121
                                                  7122          VRR_G VTPX,X'C08C',1
00005000                                          7123+         DS    0FD
00005000                        00005000          7124+         USING *,R5              base for test data and test routine
00005000  0000501C                                7125+T224     DC    A(X224)           address of test routine
00005004  00E0                                    7126+         DC    H'224'            test number
00005006  00                                      7127+         DC    XL1'00'
00005007  01                                      7128+         DC    HL1'1'            cc
00005008  0B                                      7129+         DC    HL1'11'           cc failed mask
00005009  E5E3D7E7 40404040                       7130+         DC    CL8'VTPX'         instruction name
00005014  00000010                                7131+         DC    A(16)             result length
00005018  00005034                                7132+REA224   DC    A(RE224)          result address
                                                  7133+*                                  INSTRUCTION UNDER TEST ROUTINE
0000501C                                          7134+X224     DS    0F
0000501C  E710 5034 0006                0000507C  7135+         VL    V1,RE224          get V1 source

00005022                                          7138+         DS    0H                      E65F VTP - Vector Test Decimal
00005022  E6                                      7139+         DC    X'E6'
00005023  01                                      7140+         DC    X'01'                   v1
00005024  0C08C0                                  7141+         DC    HL3'788672'             0, I3, RXB
00005027  5F                                      7142+         DC    X'5F'

00005028  B98D 0020                               7144+         EPSW  R2,R0             exptract psw
0000502C  5020 8E9C                     0000109C  7145+         ST    R2,CCPSW              to save CC
00005030  07FB                                    7146+         BR    R11               return
00005034                                          7147+RE224    DC    0F
00005034                                          7148+         DROP  R5
00005034  0FF00000 00000000                       7149          DC    XL16'0FF00000000000000000000000100E'   V1 source
0000503C  00000000 0000100E
                                                  7150
                                                  7151          VRR_G VTPX,X'C084',0
00005048                                          7152+         DS    0FD
00005048                        00005048          7153+         USING *,R5              base for test data and test routine
00005048  00005064                                7154+T225     DC    A(X225)           address of test routine
0000504C  00E1                                    7155+         DC    H'225'            test number
0000504E  00                                      7156+         DC    XL1'00'
0000504F  00                                      7157+         DC    HL1'0'            cc
00005050  07                                      7158+         DC    HL1'7'            cc failed mask
00005051  E5E3D7E7 40404040                       7159+         DC    CL8'VTPX'         instruction name
0000505C  00000010                                7160+         DC    A(16)             result length
00005060  0000507C                                7161+REA225   DC    A(RE225)          result address
                                                  7162+*                                  INSTRUCTION UNDER TEST ROUTINE
00005064                                          7163+X225     DS    0F
00005064  E710 5034 0006                0000507C  7164+         VL    V1,RE225          get V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000506A                                           7167+         DS    0H                      E65F VTP - Vector Test Decimal
0000506A  E6                                       7168+         DC    X'E6'
0000506B  01                                       7169+         DC    X'01'                   v1
0000506C  0C0840                                   7170+         DC    HL3'788544'             0, I3, RXB
0000506F  5F                                       7171+         DC    X'5F'

00005070  B98D 0020                                7173+         EPSW  R2,R0             exptract psw
00005074  5020 8E9C                     0000109C   7174+         ST    R2,CCPSW              to save CC
00005078  07FB                                     7175+         BR    R11               return
0000507C                                           7176+RE225    DC    0F
0000507C                                           7177+         DROP  R5
0000507C  0FF00000 00000000                        7178          DC    XL16'0FF00000000000000000000000001100F'   V1 source
00005084  00000000 0001100F
                                                   7179
                                                   7180          VRR_G VTPX,X'C084',2
00005090                                           7181+         DS    0FD
00005090                        00005090           7182+         USING *,R5              base for test data and test routine
00005090  000050AC                                 7183+T226     DC    A(X226)           address of test routine
00005094  00E2                                     7184+         DC    H'226'            test number
00005096  00                                       7185+         DC    XL1'00'
00005097  02                                       7186+         DC    HL1'2'            cc
00005098  0D                                       7187+         DC    HL1'13'           cc failed mask
00005099  E5E3D7E7 40404040                        7188+         DC    CL8'VTPX'         instruction name
000050A4  00000010                                 7189+         DC    A(16)             result length
000050A8  000050C4                                 7190+REA226   DC    A(RE226)          result address
                                                   7191+*                                  INSTRUCTION UNDER TEST ROUTINE
000050AC                                           7192+X226     DS    0F
000050AC  E710 5034 0006                000050C4   7193+         VL    V1,RE226          get V1 source

000050B2                                           7196+         DS    0H                      E65F VTP - Vector Test Decimal
000050B2  E6                                       7197+         DC    X'E6'
000050B3  01                                       7198+         DC    X'01'                   v1
000050B4  0C0840                                   7199+         DC    HL3'788544'             0, I3, RXB
000050B7  5F                                       7200+         DC    X'5F'

000050B8  B98D 0020                                7202+         EPSW  R2,R0             exptract psw
000050BC  5020 8E9C                     0000109C   7203+         ST    R2,CCPSW              to save CC
000050C0  07FB                                     7204+         BR    R11               return
000050C4                                           7205+RE226    DC    0F
000050C4                                           7206+         DROP  R5
000050C4  0FF00000 00000000                        7207          DC    XL16'0FF00000000000000000000011100F'   V1 source
000050CC  00000000 0011100F
                                                   7208
                                                   7209          VRR_G VTPX,X'C084',1
000050D8                                           7210+         DS    0FD
000050D8                        000050D8           7211+         USING *,R5              base for test data and test routine
000050D8  000050F4                                 7212+T227     DC    A(X227)           address of test routine
000050DC  00E3                                     7213+         DC    H'227'            test number
000050DE  00                                       7214+         DC    XL1'00'
000050DF  01                                       7215+         DC    HL1'1'            cc
000050E0  0B                                       7216+         DC    HL1'11'           cc failed mask
000050E1  E5E3D7E7 40404040                        7217+         DC    CL8'VTPX'         instruction name
000050EC  00000010                                 7218+         DC    A(16)             result length
000050F0  0000510C                                 7219+REA227   DC    A(RE227)          result address
                                                   7220+*                                  INSTRUCTION UNDER TEST ROUTINE
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000050F4                                           7221+X227     DS    0F
000050F4  E710 5034 0006                0000510C   7222+         VL    V1,RE227          get V1 source

000050FA                                           7225+         DS    0H                     E65F VTP - Vector Test Decimal
000050FA  E6                                       7226+         DC    X'E6'
000050FB  01                                       7227+         DC    X'01'                  v1
000050FC  0C0840                                   7228+         DC    HL3'788544'            0, I3, RXB
000050FF  5F                                       7229+         DC    X'5F'

00005100  B98D 0020                                7231+         EPSW  R2,R0             exptract psw
00005104  5020 8E9C                     0000109C   7232+         ST    R2,CCPSW             to save CC
00005108  07FB                                     7233+         BR    R11               return
0000510C                                           7234+RE227    DC    0F
0000510C                                           7235+         DROP  R5
0000510C  0FF00000 00000000                        7236          DC    XL16'0FF00000000000000000000000011000'   V1 source
00005114  00000000 00011000
                                                   7237
                                                   7238          VRR_G VTPX,X'C084',2
00005120                                           7239+         DS    0FD
00005120                        00005120           7240+         USING *,R5              base for test data and test routine
00005120  0000513C                                 7241+T228     DC    A(X228)           address of test routine
00005124  00E4                                     7242+         DC    H'228'            test number
00005126  00                                       7243+         DC    XL1'00'
00005127  02                                       7244+         DC    HL1'2'            cc
00005128  0D                                       7245+         DC    HL1'13'           cc failed mask
00005129  E5E3D7E7 40404040                        7246+         DC    CL8'VTPX'         instruction name
00005134  00000010                                 7247+         DC    A(16)             result length
00005138  00005154                                 7248+REA228   DC    A(RE228)          result address
                                                   7249+*                                  INSTRUCTION UNDER TEST ROUTINE
0000513C                                           7250+X228     DS    0F
0000513C  E710 5034 0006                00005154   7251+         VL    V1,RE228          get V1 source

00005142                                           7254+         DS    0H                     E65F VTP - Vector Test Decimal
00005142  E6                                       7255+         DC    X'E6'
00005143  01                                       7256+         DC    X'01'                  v1
00005144  0C0840                                   7257+         DC    HL3'788544'            0, I3, RXB
00005147  5F                                       7258+         DC    X'5F'

00005148  B98D 0020                                7260+         EPSW  R2,R0             exptract psw
0000514C  5020 8E9C                     0000109C   7261+         ST    R2,CCPSW             to save CC
00005150  07FB                                     7262+         BR    R11               return
00005154                                           7263+RE228    DC    0F
00005154                                           7264+         DROP  R5
00005154  0FF00000 00000000                        7265          DC    XL16'0FF00000000000000000000001F00F'   V1 source
0000515C  00000000 0001F00F
                                                   7266
                                                   7267          VRR_G VTPX,X'C084',3
00005168                                           7268+         DS    0FD
00005168                        00005168           7269+         USING *,R5              base for test data and test routine
00005168  00005184                                 7270+T229     DC    A(X229)           address of test routine
0000516C  00E5                                     7271+         DC    H'229'            test number
0000516E  00                                       7272+         DC    XL1'00'
0000516F  03                                       7273+         DC    HL1'3'            cc
00005170  0E                                       7274+         DC    HL1'14'           cc failed mask
00005171  E5E3D7E7 40404040                        7275+         DC    CL8'VTPX'         instruction name
0000517C  00000010                                 7276+         DC    A(16)             result length
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005180  0000519C                                 7277+REA229   DC    A(RE229)          result address
                                                   7278+*                                INSTRUCTION UNDER TEST ROUTINE
00005184                                           7279+X229     DS    0F
00005184  E710 5034 0006                0000519C   7280+         VL    V1,RE229          get V1 source

0000518A                                           7283+         DS    0H                      E65F VTP - Vector Test Decimal
0000518A  E6                                       7284+         DC    X'E6'
0000518B  01                                       7285+         DC    X'01'                   v1
0000518C  0C0840                                   7286+         DC    HL3'788544'             0, I3, RXB
0000518F  5F                                       7287+         DC    X'5F'

00005190  B98D 0020                                7289+         EPSW  R2,R0             exptract psw
00005194  5020 8E9C                     0000109C   7290+         ST    R2,CCPSW              to save CC
00005198  07FB                                     7291+         BR    R11               return
0000519C                                           7292+RE229    DC    0F
0000519C                                           7293+         DROP  R5
0000519C  0FF00000 00000000                        7294          DC    XL16'0FF00000000000000000000000111009'   V1 source
000051A4  00000000 00111009
                                                   7295
                                                   7296 *-----------------------------------------------------------------
                                                   7297 *  Sign-Test Control: STC=5
                                                   7298 *-----------------------------------------------------------------
                                                   7299 * BTP=0, STC=5, DC=0                  only sign: F valid, no digits
                                                   7300          VRR_G VTPX,X'80A0',1
000051B0                                           7301+         DS    0FD
000051B0                      000051B0             7302+         USING *,R5              base for test data and test routine
000051B0  000051CC                                 7303+T230     DC    A(X230)           address of test routine
000051B4  00E6                                     7304+         DC    H'230'            test number
000051B6  00                                       7305+         DC    XL1'00'
000051B7  01                                       7306+         DC    HL1'1'            cc
000051B8  0B                                       7307+         DC    HL1'11'           cc failed mask
000051B9  E5E3D7E7 40404040                        7308+         DC    CL8'VTPX'         instruction name
000051C4  00000010                                 7309+         DC    A(16)             result length
000051C8  000051E4                                 7310+REA230   DC    A(RE230)          result address
                                                   7311+*                                INSTRUCTION UNDER TEST ROUTINE
000051CC                                           7312+X230     DS    0F
000051CC  E710 5034 0006                000051E4   7313+         VL    V1,RE230          get V1 source

000051D2                                           7316+         DS    0H                      E65F VTP - Vector Test Decimal
000051D2  E6                                       7317+         DC    X'E6'
000051D3  01                                       7318+         DC    X'01'                   v1
000051D4  080A00                                   7319+         DC    HL3'526848'             0, I3, RXB
000051D7  5F                                       7320+         DC    X'5F'

000051D8  B98D 0020                                7322+         EPSW  R2,R0             exptract psw
000051DC  5020 8E9C                     0000109C   7323+         ST    R2,CCPSW              to save CC
000051E0  07FB                                     7324+         BR    R11               return
000051E4                                           7325+RE230    DC    0F
000051E4                                           7326+         DROP  R5
000051E4  0FF00000 00000000                        7327          DC    XL16'0FF00000000000000000000000000A'   V1 source
000051EC  00000000 0000000A
                                                   7328
                                                   7329          VRR_G VTPX,X'80A0',1
000051F8                                           7330+         DS    0FD
000051F8                      000051F8             7331+         USING *,R5              base for test data and test routine
000051F8  00005214                                 7332+T231     DC    A(X231)           address of test routine
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000051FC  00E7                                     7333+         DC    H'231'            test number
000051FE  00                                       7334+         DC    XL1'00'
000051FF  01                                       7335+         DC    HL1'1'            cc
00005200  0B                                       7336+         DC    HL1'11'           cc failed mask
00005201  E5E3D7E7 40404040                        7337+         DC    CL8'VTPX'         instruction name
0000520C  00000010                                 7338+         DC    A(16)             result length
00005210  0000522C                                 7339+REA231   DC    A(RE231)          result address
                                                   7340+*                                  INSTRUCTION UNDER TEST ROUTINE
00005214                                           7341+X231     DS    0F
00005214  E710 5034 0006                0000522C   7342+         VL    V1,RE231          get V1 source

0000521A                                           7345+         DS    0H                      E65F VTP - Vector Test Decimal
0000521A  E6                                       7346+         DC    X'E6'
0000521B  01                                       7347+         DC    X'01'                   v1
0000521C  080A00                                   7348+         DC    HL3'526848'             0, I3, RXB
0000521F  5F                                       7349+         DC    X'5F'

00005220  B98D 0020                                7351+         EPSW  R2,R0             exptract psw
00005224  5020 8E9C                     0000109C   7352+         ST    R2,CCPSW              to save CC
00005228  07FB                                     7353+         BR    R11               return
0000522C                                           7354+RE231    DC    0F
0000522C                                           7355+         DROP  R5
0000522C  0FF00000 00000000                        7356          DC    XL16'0FF00000000000000000000000000B'   V1 source
00005234  00000000 0000000B
                                                   7357
                                                   7358          VRR_G VTPX,X'80A0',1
00005240                                           7359+         DS    0FD
00005240                        00005240           7360+         USING *,R5              base for test data and test routine
00005240  0000525C                                 7361+T232     DC    A(X232)           address of test routine
00005244  00E8                                     7362+         DC    H'232'            test number
00005246  00                                       7363+         DC    XL1'00'
00005247  01                                       7364+         DC    HL1'1'            cc
00005248  0B                                       7365+         DC    HL1'11'           cc failed mask
00005249  E5E3D7E7 40404040                        7366+         DC    CL8'VTPX'         instruction name
00005254  00000010                                 7367+         DC    A(16)             result length
00005258  00005274                                 7368+REA232   DC    A(RE232)          result address
                                                   7369+*                                  INSTRUCTION UNDER TEST ROUTINE
0000525C                                           7370+X232     DS    0F
0000525C  E710 5034 0006                00005274   7371+         VL    V1,RE232          get V1 source

00005262                                           7374+         DS    0H                      E65F VTP - Vector Test Decimal
00005262  E6                                       7375+         DC    X'E6'
00005263  01                                       7376+         DC    X'01'                   v1
00005264  080A00                                   7377+         DC    HL3'526848'             0, I3, RXB
00005267  5F                                       7378+         DC    X'5F'

00005268  B98D 0020                                7380+         EPSW  R2,R0             exptract psw
0000526C  5020 8E9C                     0000109C   7381+         ST    R2,CCPSW              to save CC
00005270  07FB                                     7382+         BR    R11               return
00005274                                           7383+RE232    DC    0F
00005274                                           7384+         DROP  R5
00005274  0FF00000 00000000                        7385          DC    XL16'0FF00000000000000000000000000C'   V1 source
0000527C  00000000 0000000C
                                                   7386
                                                   7387          VRR_G VTPX,X'80A0',1
00005288                                           7388+         DS    0FD
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005288                     00005288             7389+         USING *,R5              base for test data and test routine
00005288  000052A4                                7390+T233     DC    A(X233)           address of test routine
0000528C  00E9                                    7391+         DC    H'233'            test number
0000528E  00                                      7392+         DC    XL1'00'
0000528F  01                                      7393+         DC    HL1'1'            cc
00005290  0B                                      7394+         DC    HL1'11'           cc failed mask
00005291  E5E3D7E7 40404040                       7395+         DC    CL8'VTPX'         instruction name
0000529C  00000010                                7396+         DC    A(16)             result length
000052A0  000052BC                                7397+REA233   DC    A(RE233)          result address
                                                  7398+*                                  INSTRUCTION UNDER TEST ROUTINE
000052A4                                          7399+X233     DS    0F
000052A4  E710 5034 0006                000052BC  7400+         VL    V1,RE233          get V1 source

000052AA                                          7403+         DS    0H                      E65F VTP - Vector Test Decimal
000052AA  E6                                      7404+         DC    X'E6'
000052AB  01                                      7405+         DC    X'01'                   v1
000052AC  080A00                                  7406+         DC    HL3'526848'             0, I3, RXB
000052AF  5F                                      7407+         DC    X'5F'

000052B0  B98D 0020                               7409+         EPSW  R2,R0             exptract psw
000052B4  5020 8E9C                     0000109C  7410+         ST    R2,CCPSW              to save CC
000052B8  07FB                                    7411+         BR    R11               return
000052BC                                          7412+RE233    DC    0F
000052BC                                          7413+         DROP  R5
000052BC  0FF00000 00000000                       7414          DC    XL16'0FF000000000000000000000000000D'   V1 source
000052C4  00000000 0000000D
                                                  7415
                                                  7416          VRR_G VTPX,X'80A0',1
000052D0                                          7417+         DS    0FD
000052D0                     000052D0             7418+         USING *,R5              base for test data and test routine
000052D0  000052EC                                7419+T234     DC    A(X234)           address of test routine
000052D4  00EA                                    7420+         DC    H'234'            test number
000052D6  00                                      7421+         DC    XL1'00'
000052D7  01                                      7422+         DC    HL1'1'            cc
000052D8  0B                                      7423+         DC    HL1'11'           cc failed mask
000052D9  E5E3D7E7 40404040                       7424+         DC    CL8'VTPX'         instruction name
000052E4  00000010                                7425+         DC    A(16)             result length
000052E8  00005304                                7426+REA234   DC    A(RE234)          result address
                                                  7427+*                                  INSTRUCTION UNDER TEST ROUTINE
000052EC                                          7428+X234     DS    0F
000052EC  E710 5034 0006                00005304  7429+         VL    V1,RE234          get V1 source

000052F2                                          7432+         DS    0H                      E65F VTP - Vector Test Decimal
000052F2  E6                                      7433+         DC    X'E6'
000052F3  01                                      7434+         DC    X'01'                   v1
000052F4  080A00                                  7435+         DC    HL3'526848'             0, I3, RXB
000052F7  5F                                      7436+         DC    X'5F'

000052F8  B98D 0020                               7438+         EPSW  R2,R0             exptract psw
000052FC  5020 8E9C                     0000109C  7439+         ST    R2,CCPSW              to save CC
00005300  07FB                                    7440+         BR    R11               return
00005304                                          7441+RE234    DC    0F
00005304                                          7442+         DROP  R5
00005304  0FF00000 00000000                       7443          DC    XL16'0FF000000000000000000000000000E'   V1 source
0000530C  00000000 0000000E
                                                  7444
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   7445          VRR_G VTPX,X'80A0',0
00005318                                           7446+         DS    0FD
00005318                     00005318              7447+         USING *,R5              base for test data and test routine
00005318  00005334                                 7448+T235     DC    A(X235)           address of test routine
0000531C  00EB                                     7449+         DC    H'235'            test number
0000531E  00                                       7450+         DC    XL1'00'
0000531F  00                                       7451+         DC    HL1'0'            cc
00005320  07                                       7452+         DC    HL1'7'            cc failed mask
00005321  E5E3D7E7 40404040                        7453+         DC    CL8'VTPX'         instruction name
0000532C  00000010                                 7454+         DC    A(16)             result length
00005330  0000534C                                 7455+REA235   DC    A(RE235)          result address
                                                   7456+*                                  INSTRUCTION UNDER TEST ROUTINE
00005334                                           7457+X235     DS    0F
00005334  E710 5034 0006               0000534C    7458+         VL    V1,RE235          get V1 source

0000533A                                           7461+         DS    0H                      E65F VTP - Vector Test Decimal
0000533A  E6                                       7462+         DC    X'E6'
0000533B  01                                       7463+         DC    X'01'                   v1
0000533C  080A00                                   7464+         DC    HL3'526848'             0, I3, RXB
0000533F  5F                                       7465+         DC    X'5F'

00005340  B98D 0020                                7467+         EPSW  R2,R0             exptract psw
00005344  5020 8E9C                    0000109C    7468+         ST    R2,CCPSW              to save CC
00005348  07FB                                     7469+         BR    R11               return
0000534C                                           7470+RE235    DC    0F
0000534C                                           7471+         DROP  R5
0000534C  0FF00000 00000000                        7472          DC    XL16'0FF0000000000000000000000000000F'   V1 source
00005354  00000000 0000000F
                                                   7473
                                                   7474          VRR_G VTPX,X'80A0',1
00005360                                           7475+         DS    0FD
00005360                     00005360              7476+         USING *,R5              base for test data and test routine
00005360  0000537C                                 7477+T236     DC    A(X236)           address of test routine
00005364  00EC                                     7478+         DC    H'236'            test number
00005366  00                                       7479+         DC    XL1'00'
00005367  01                                       7480+         DC    HL1'1'            cc
00005368  0B                                       7481+         DC    HL1'11'           cc failed mask
00005369  E5E3D7E7 40404040                        7482+         DC    CL8'VTPX'         instruction name
00005374  00000010                                 7483+         DC    A(16)             result length
00005378  00005394                                 7484+REA236   DC    A(RE236)          result address
                                                   7485+*                                  INSTRUCTION UNDER TEST ROUTINE
0000537C                                           7486+X236     DS    0F
0000537C  E710 5034 0006               00005394    7487+         VL    V1,RE236          get V1 source

00005382                                           7490+         DS    0H                      E65F VTP - Vector Test Decimal
00005382  E6                                       7491+         DC    X'E6'
00005383  01                                       7492+         DC    X'01'                   v1
00005384  080A00                                   7493+         DC    HL3'526848'             0, I3, RXB
00005387  5F                                       7494+         DC    X'5F'

00005388  B98D 0020                                7496+         EPSW  R2,R0             exptract psw
0000538C  5020 8E9C                    0000109C    7497+         ST    R2,CCPSW              to save CC
00005390  07FB                                     7498+         BR    R11               return
00005394                                           7499+RE236    DC    0F
00005394                                           7500+         DROP  R5
00005394  0FF00000 00000000                        7501          DC    XL16'0FF0000000000000000000000000000'   V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000539C  00000000 00000000
                                                   7502
                                                   7503          VRR_G VTPX,X'80A0',1
000053A8                                           7504+         DS    0FD
000053A8                       000053A8            7505+         USING *,R5              base for test data and test routine
000053A8  000053C4                                 7506+T237     DC    A(X237)           address of test routine
000053AC  00ED                                     7507+         DC    H'237'            test number
000053AE  00                                       7508+         DC    XL1'00'
000053AF  01                                       7509+         DC    HL1'1'            cc
000053B0  0B                                       7510+         DC    HL1'11'           cc failed mask
000053B1  E5E3D7E7 40404040                        7511+         DC    CL8'VTPX'         instruction name
000053BC  00000010                                 7512+         DC    A(16)             result length
000053C0  000053DC                                 7513+REA237   DC    A(RE237)          result address
                                                   7514+*                                  INSTRUCTION UNDER TEST ROUTINE
000053C4                                           7515+X237     DS    0F
000053C4  E710 5034 0006                000053DC   7516+         VL    V1,RE237          get V1 source

000053CA                                           7519+         DS    0H                      E65F VTP - Vector Test Decimal
000053CA  E6                                       7520+         DC    X'E6'
000053CB  01                                       7521+         DC    X'01'                   v1
000053CC  080A00                                   7522+         DC    HL3'526848'             0, I3, RXB
000053CF  5F                                       7523+         DC    X'5F'

000053D0  B98D 0020                                7525+         EPSW  R2,R0             exptract psw
000053D4  5020 8E9C                     0000109C   7526+         ST    R2,CCPSW              to save CC
000053D8  07FB                                     7527+         BR    R11               return
000053DC                                           7528+RE237    DC    0F
000053DC                                           7529+         DROP  R5
000053DC  0FF00000 00000000                        7530          DC    XL16'0FF00000000000000000000000000009'   V1 source
000053E4  00000000 00000009
                                                   7531
                                                   7532 * BTP=0, STC=5, DC>0 and odd
                                                   7533 *                                  sign: F  valid, 0 digits
                                                   7534          VRR_G VTPX,X'80A7',1
000053F0                                           7535+         DS    0FD
000053F0                       000053F0            7536+         USING *,R5              base for test data and test routine
000053F0  0000540C                                 7537+T238     DC    A(X238)           address of test routine
000053F4  00EE                                     7538+         DC    H'238'            test number
000053F6  00                                       7539+         DC    XL1'00'
000053F7  01                                       7540+         DC    HL1'1'            cc
000053F8  0B                                       7541+         DC    HL1'11'           cc failed mask
000053F9  E5E3D7E7 40404040                        7542+         DC    CL8'VTPX'         instruction name
00005404  00000010                                 7543+         DC    A(16)             result length
00005408  00005424                                 7544+REA238   DC    A(RE238)          result address
                                                   7545+*                                  INSTRUCTION UNDER TEST ROUTINE
0000540C                                           7546+X238     DS    0F
0000540C  E710 5034 0006                00005424   7547+         VL    V1,RE238          get V1 source

00005412                                           7550+         DS    0H                      E65F VTP - Vector Test Decimal
00005412  E6                                       7551+         DC    X'E6'
00005413  01                                       7552+         DC    X'01'                   v1
00005414  080A70                                   7553+         DC    HL3'526960'             0, I3, RXB
00005417  5F                                       7554+         DC    X'5F'

00005418  B98D 0020                                7556+         EPSW  R2,R0             exptract psw
0000541C  5020 8E9C                     0000109C   7557+         ST    R2,CCPSW              to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005420  07FB                                     7558+         BR    R11                 return
00005424                                           7559+RE238    DC    0F
00005424                                           7560+         DROP  R5
00005424  0FF00000 00000000                        7561          DC    XL16'0FF000000000000000000000000000C'   V1 source
0000542C  00000000 0000000C
                                                   7562
                                                   7563          VRR_G VTPX,X'80AB',1
00005438                                           7564+         DS    0FD
00005438                      00005438             7565+         USING *,R5                base for test data and test routine
00005438  00005454                                 7566+T239     DC    A(X239)             address of test routine
0000543C  00EF                                     7567+         DC    H'239'              test number
0000543E  00                                       7568+         DC    XL1'00'
0000543F  01                                       7569+         DC    HL1'1'              cc
00005440  0B                                       7570+         DC    HL1'11'             cc failed mask
00005441  E5E3D7E7 40404040                        7571+         DC    CL8'VTPX'           instruction name
0000544C  00000010                                 7572+         DC    A(16)               result length
00005450  0000546C                                 7573+REA239   DC    A(RE239)            result address
                                                   7574+*                                    INSTRUCTION UNDER TEST ROUTINE
00005454                                           7575+X239     DS    0F
00005454  E710 5034 0006                0000546C   7576+         VL    V1,RE239            get V1 source

0000545A                                           7579+         DS    0H                        E65F VTP - Vector Test Decimal
0000545A  E6                                       7580+         DC    X'E6'
0000545B  01                                       7581+         DC    X'01'                     v1
0000545C  080AB0                                   7582+         DC    HL3'527024'               0, I3, RXB
0000545F  5F                                       7583+         DC    X'5F'

00005460  B98D 0020                                7585+         EPSW  R2,R0               exptract psw
00005464  5020 8E9C                     0000109C   7586+         ST    R2,CCPSW                to save CC
00005468  07FB                                     7587+         BR    R11                 return
0000546C                                           7588+RE239    DC    0F
0000546C                                           7589+         DROP  R5
0000546C  0FF00000 00000000                        7590          DC    XL16'0FF000000000000000000000000000D'   V1 source
00005474  00000000 0000000D
                                                   7591
                                                   7592          VRR_G VTPX,X'80AB',0
00005480                                           7593+         DS    0FD
00005480                      00005480             7594+         USING *,R5                base for test data and test routine
00005480  0000549C                                 7595+T240     DC    A(X240)             address of test routine
00005484  00F0                                     7596+         DC    H'240'              test number
00005486  00                                       7597+         DC    XL1'00'
00005487  00                                       7598+         DC    HL1'0'              cc
00005488  07                                       7599+         DC    HL1'7'              cc failed mask
00005489  E5E3D7E7 40404040                        7600+         DC    CL8'VTPX'           instruction name
00005494  00000010                                 7601+         DC    A(16)               result length
00005498  000054B4                                 7602+REA240   DC    A(RE240)            result address
                                                   7603+*                                    INSTRUCTION UNDER TEST ROUTINE
0000549C                                           7604+X240     DS    0F
0000549C  E710 5034 0006                000054B4   7605+         VL    V1,RE240            get V1 source

000054A2                                           7608+         DS    0H                        E65F VTP - Vector Test Decimal
000054A2  E6                                       7609+         DC    X'E6'
000054A3  01                                       7610+         DC    X'01'                     v1
000054A4  080AB0                                   7611+         DC    HL3'527024'               0, I3, RXB
000054A7  5F                                       7612+         DC    X'5F'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000054A8  B98D 0020                               7614+         EPSW  R2,R0             exptract psw
000054AC  5020 8E9C                     0000109C  7615+         ST    R2,CCPSW              to save CC
000054B0  07FB                                    7616+         BR    R11               return
000054B4                                          7617+RE240    DC    0F
000054B4                                          7618+         DROP  R5
000054B4  0FF00000 00000000                       7619          DC    XL16'0FF00000000000000000000000000F'   V1 source
000054BC  00000000 0000000F
                                                  7620
                                                  7621 *                                      sign: F valid, non-0 digits
                                                  7622          VRR_G VTPX,X'80A5',1
000054C8                                          7623+         DS    0FD
000054C8                        000054C8          7624+         USING *,R5              base for test data and test routine
000054C8  000054E4                                7625+T241     DC    A(X241)           address of test routine
000054CC  00F1                                    7626+         DC    H'241'            test number
000054CE  00                                      7627+         DC    XL1'00'
000054CF  01                                      7628+         DC    HL1'1'            cc
000054D0  0B                                      7629+         DC    HL1'11'           cc failed mask
000054D1  E5E3D7E7 40404040                       7630+         DC    CL8'VTPX'         instruction name
000054DC  00000010                                7631+         DC    A(16)             result length
000054E0  000054FC                                7632+REA241   DC    A(RE241)          result address
                                                  7633+*                                  INSTRUCTION UNDER TEST ROUTINE
000054E4                                          7634+X241     DS    0F
000054E4  E710 5034 0006                000054FC  7635+         VL    V1,RE241          get V1 source

000054EA                                          7638+         DS    0H                      E65F VTP - Vector Test Decimal
000054EA  E6                                      7639+         DC    X'E6'
000054EB  01                                      7640+         DC    X'01'                   v1
000054EC  080A50                                  7641+         DC    HL3'526928'             0, I3, RXB
000054EF  5F                                      7642+         DC    X'5F'

000054F0  B98D 0020                               7644+         EPSW  R2,R0             exptract psw
000054F4  5020 8E9C                     0000109C  7645+         ST    R2,CCPSW              to save CC
000054F8  07FB                                    7646+         BR    R11               return
000054FC                                          7647+RE241    DC    0F
000054FC                                          7648+         DROP  R5
000054FC  0FF00000 00000000                       7649          DC    XL16'0FF00000000000000000000000100A'   V1 source
00005504  00000000 0000100A
                                                  7650
                                                  7651          VRR_G VTPX,X'80A7',1
00005510                                          7652+         DS    0FD
00005510                        00005510          7653+         USING *,R5              base for test data and test routine
00005510  0000552C                                7654+T242     DC    A(X242)           address of test routine
00005514  00F2                                    7655+         DC    H'242'            test number
00005516  00                                      7656+         DC    XL1'00'
00005517  01                                      7657+         DC    HL1'1'            cc
00005518  0B                                      7658+         DC    HL1'11'           cc failed mask
00005519  E5E3D7E7 40404040                       7659+         DC    CL8'VTPX'         instruction name
00005524  00000010                                7660+         DC    A(16)             result length
00005528  00005544                                7661+REA242   DC    A(RE242)          result address
                                                  7662+*                                  INSTRUCTION UNDER TEST ROUTINE
0000552C                                          7663+X242     DS    0F
0000552C  E710 5034 0006                00005544  7664+         VL    V1,RE242          get V1 source

00005532                                          7667+         DS    0H                      E65F VTP - Vector Test Decimal
00005532  E6                                      7668+         DC    X'E6'
00005533  01                                      7669+         DC    X'01'                   v1
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005534  080A70                                   7670+         DC    HL3'526960'             0, I3, RXB
00005537  5F                                       7671+         DC    X'5F'

00005538  B98D 0020                                7673+         EPSW  R2,R0             exptract psw
0000553C  5020 8E9C                     0000109C   7674+         ST    R2,CCPSW              to save CC
00005540  07FB                                     7675+         BR    R11               return
00005544                                           7676+RE242    DC    0F
00005544                                           7677+         DROP  R5
00005544  0FF00000 00000000                        7678          DC    XL16'0FF00000000000000000000000100B'   V1 source
0000554C  00000000 0000100B
                                                   7679
                                                   7680          VRR_G VTPX,X'80A9',1
00005558                                           7681+         DS    0FD
00005558                        00005558           7682+         USING *,R5              base for test data and test routine
00005558  00005574                                 7683+T243     DC    A(X243)           address of test routine
0000555C  00F3                                     7684+         DC    H'243'            test number
0000555E  00                                       7685+         DC    XL1'00'
0000555F  01                                       7686+         DC    HL1'1'            cc
00005560  0B                                       7687+         DC    HL1'11'           cc failed mask
00005561  E5E3D7E7 40404040                        7688+         DC    CL8'VTPX'         instruction name
0000556C  00000010                                 7689+         DC    A(16)             result length
00005570  0000558C                                 7690+REA243   DC    A(RE243)          result address
                                                   7691+*                                  INSTRUCTION UNDER TEST ROUTINE
00005574                                           7692+X243     DS    0F
00005574  E710 5034 0006                0000558C   7693+         VL    V1,RE243          get V1 source

0000557A                                           7696+         DS    0H                      E65F VTP - Vector Test Decimal
0000557A  E6                                       7697+         DC    X'E6'
0000557B  01                                       7698+         DC    X'01'                   v1
0000557C  080A90                                   7699+         DC    HL3'526992'             0, I3, RXB
0000557F  5F                                       7700+         DC    X'5F'

00005580  B98D 0020                                7702+         EPSW  R2,R0             exptract psw
00005584  5020 8E9C                     0000109C   7703+         ST    R2,CCPSW              to save CC
00005588  07FB                                     7704+         BR    R11               return
0000558C                                           7705+RE243    DC    0F
0000558C                                           7706+         DROP  R5
0000558C  0FF00000 00000000                        7707          DC    XL16'0FF00000000000000000000000100C'   V1 source
00005594  00000000 0000100C
                                                   7708
                                                   7709          VRR_G VTPX,X'80AB',1
000055A0                                           7710+         DS    0FD
000055A0                        000055A0           7711+         USING *,R5              base for test data and test routine
000055A0  000055BC                                 7712+T244     DC    A(X244)           address of test routine
000055A4  00F4                                     7713+         DC    H'244'            test number
000055A6  00                                       7714+         DC    XL1'00'
000055A7  01                                       7715+         DC    HL1'1'            cc
000055A8  0B                                       7716+         DC    HL1'11'           cc failed mask
000055A9  E5E3D7E7 40404040                        7717+         DC    CL8'VTPX'         instruction name
000055B4  00000010                                 7718+         DC    A(16)             result length
000055B8  000055D4                                 7719+REA244   DC    A(RE244)          result address
                                                   7720+*                                  INSTRUCTION UNDER TEST ROUTINE
000055BC                                           7721+X244     DS    0F
000055BC  E710 5034 0006                000055D4   7722+         VL    V1,RE244          get V1 source

000055C2                                           7725+         DS    0H                      E65F VTP - Vector Test Decimal
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000055C2  E6                                      7726+         DC    X'E6'
000055C3  01                                      7727+         DC    X'01'                    v1
000055C4  080AB0                                  7728+         DC    HL3'527024'              0, I3, RXB
000055C7  5F                                      7729+         DC    X'5F'

000055C8  B98D 0020                               7731+         EPSW  R2,R0              exptract psw
000055CC  5020 8E9C                     0000109C  7732+         ST    R2,CCPSW               to save CC
000055D0  07FB                                    7733+         BR    R11                return
000055D4                                          7734+RE244    DC    0F
000055D4                                          7735+         DROP  R5
000055D4  0FF00000 00000000                       7736          DC    XL16'0FF00000000000000000000000100D'   V1 source
000055DC  00000000 0000100D
                                                  7737
                                                  7738          VRR_G VTPX,X'80AD',1
000055E8                                          7739+         DS    0FD
000055E8                        000055E8          7740+         USING *,R5               base for test data and test routine
000055E8  00005604                                7741+T245     DC    A(X245)            address of test routine
000055EC  00F5                                    7742+         DC    H'245'             test number
000055EE  00                                      7743+         DC    XL1'00'
000055EF  01                                      7744+         DC    HL1'1'             cc
000055F0  0B                                      7745+         DC    HL1'11'            cc failed mask
000055F1  E5E3D7E7 40404040                       7746+         DC    CL8'VTPX'          instruction name
000055FC  00000010                                7747+         DC    A(16)              result length
00005600  0000561C                                7748+REA245   DC    A(RE245)           result address
                                                  7749+*                                 INSTRUCTION UNDER TEST ROUTINE
00005604                                          7750+X245     DS    0F
00005604  E710 5034 0006                0000561C  7751+         VL    V1,RE245           get V1 source

0000560A                                          7754+         DS    0H                       E65F VTP - Vector Test Decimal
0000560A  E6                                      7755+         DC    X'E6'
0000560B  01                                      7756+         DC    X'01'                    v1
0000560C  080AD0                                  7757+         DC    HL3'527056'              0, I3, RXB
0000560F  5F                                      7758+         DC    X'5F'

00005610  B98D 0020                               7760+         EPSW  R2,R0              exptract psw
00005614  5020 8E9C                     0000109C  7761+         ST    R2,CCPSW               to save CC
00005618  07FB                                    7762+         BR    R11                return
0000561C                                          7763+RE245    DC    0F
0000561C                                          7764+         DROP  R5
0000561C  0FF00000 00000000                       7765          DC    XL16'0FF00000000000000000000000100E'   V1 source
00005624  00000000 0000100E
                                                  7766
                                                  7767          VRR_G VTPX,X'80AF',0
00005630                                          7768+         DS    0FD
00005630                        00005630          7769+         USING *,R5               base for test data and test routine
00005630  0000564C                                7770+T246     DC    A(X246)            address of test routine
00005634  00F6                                    7771+         DC    H'246'             test number
00005636  00                                      7772+         DC    XL1'00'
00005637  00                                      7773+         DC    HL1'0'             cc
00005638  07                                      7774+         DC    HL1'7'             cc failed mask
00005639  E5E3D7E7 40404040                       7775+         DC    CL8'VTPX'          instruction name
00005644  00000010                                7776+         DC    A(16)              result length
00005648  00005664                                7777+REA246   DC    A(RE246)           result address
                                                  7778+*                                 INSTRUCTION UNDER TEST ROUTINE
0000564C                                          7779+X246     DS    0F
0000564C  E710 5034 0006                00005664  7780+         VL    V1,RE246           get V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005652                                           7783+         DS    0H                      E65F VTP - Vector Test Decimal
00005652  E6                                       7784+         DC    X'E6'
00005653  01                                       7785+         DC    X'01'                   v1
00005654  080AF0                                   7786+         DC    HL3'527088'             0, I3, RXB
00005657  5F                                       7787+         DC    X'5F'

00005658  B98D 0020                                7789+         EPSW  R2,R0             exptract psw
0000565C  5020 8E9C                     0000109C   7790+         ST    R2,CCPSW              to save CC
00005660  07FB                                     7791+         BR    R11               return
00005664                                           7792+RE246    DC    0F
00005664                                           7793+         DROP  R5
00005664  0FF00000 00000000                        7794          DC    XL16'0FF00000000000000000000000100F'   V1 source
0000566C  00000000 0000100F
                                                   7795
                                                   7796          VRR_G VTPX,X'80AF',1
00005678                                           7797+         DS    0FD
00005678                        00005678           7798+         USING *,R5              base for test data and test routine
00005678  00005694                                 7799+T247     DC    A(X247)           address of test routine
0000567C  00F7                                     7800+         DC    H'247'            test number
0000567E  00                                       7801+         DC    XL1'00'
0000567F  01                                       7802+         DC    HL1'1'            cc
00005680  0B                                       7803+         DC    HL1'11'           cc failed mask
00005681  E5E3D7E7 40404040                        7804+         DC    CL8'VTPX'         instruction name
0000568C  00000010                                 7805+         DC    A(16)             result length
00005690  000056AC                                 7806+REA247   DC    A(RE247)          result address
                                                   7807+*                                  INSTRUCTION UNDER TEST ROUTINE
00005694                                           7808+X247     DS    0F
00005694  E710 5034 0006                000056AC   7809+         VL    V1,RE247          get V1 source

0000569A                                           7812+         DS    0H                      E65F VTP - Vector Test Decimal
0000569A  E6                                       7813+         DC    X'E6'
0000569B  01                                       7814+         DC    X'01'                   v1
0000569C  080AF0                                   7815+         DC    HL3'527088'             0, I3, RXB
0000569F  5F                                       7816+         DC    X'5F'

000056A0  B98D 0020                                7818+         EPSW  R2,R0             exptract psw
000056A4  5020 8E9C                     0000109C   7819+         ST    R2,CCPSW              to save CC
000056A8  07FB                                     7820+         BR    R11               return
000056AC                                           7821+RE247    DC    0F
000056AC                                           7822+         DROP  R5
000056AC  0FF00000 00000000                        7823          DC    XL16'0FF00000000000000000000001000'   V1 source
000056B4  00000000 00001000
                                                   7824
                                                   7825          VRR_G VTPX,X'80AF',2
000056C0                                           7826+         DS    0FD
000056C0                        000056C0           7827+         USING *,R5              base for test data and test routine
000056C0  000056DC                                 7828+T248     DC    A(X248)           address of test routine
000056C4  00F8                                     7829+         DC    H'248'            test number
000056C6  00                                       7830+         DC    XL1'00'
000056C7  02                                       7831+         DC    HL1'2'            cc
000056C8  0D                                       7832+         DC    HL1'13'           cc failed mask
000056C9  E5E3D7E7 40404040                        7833+         DC    CL8'VTPX'         instruction name
000056D4  00000010                                 7834+         DC    A(16)             result length
000056D8  000056F4                                 7835+REA248   DC    A(RE248)          result address
                                                   7836+*                                  INSTRUCTION UNDER TEST ROUTINE
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000056DC                                           7837+X248     DS    0F
000056DC  E710 5034 0006                000056F4   7838+         VL    V1,RE248          get V1 source

000056E2                                           7841+         DS    0H                      E65F VTP - Vector Test Decimal
000056E2  E6                                       7842+         DC    X'E6'
000056E3  01                                       7843+         DC    X'01'                   v1
000056E4  080AF0                                   7844+         DC    HL3'527088'             0, I3, RXB
000056E7  5F                                       7845+         DC    X'5F'

000056E8  B98D 0020                                7847+         EPSW  R2,R0             exptract psw
000056EC  5020 8E9C                     0000109C   7848+         ST    R2,CCPSW              to save CC
000056F0  07FB                                     7849+         BR    R11               return
000056F4                                           7850+RE248    DC    0F
000056F4                                           7851+         DROP  R5
000056F4  0FF00000 00000000                        7852          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000056FC  00000000 0000F00F
                                                   7853
                                                   7854          VRR_G VTPX,X'80AF',3
00005708                                           7855+         DS    0FD
00005708                        00005708           7856+         USING *,R5              base for test data and test routine
00005708  00005724                                 7857+T249     DC    A(X249)           address of test routine
0000570C  00F9                                     7858+         DC    H'249'            test number
0000570E  00                                       7859+         DC    XL1'00'
0000570F  03                                       7860+         DC    HL1'3'            cc
00005710  0E                                       7861+         DC    HL1'14'           cc failed mask
00005711  E5E3D7E7 40404040                        7862+         DC    CL8'VTPX'         instruction name
0000571C  00000010                                 7863+         DC    A(16)             result length
00005720  0000573C                                 7864+REA249   DC    A(RE249)          result address
                                                   7865+*                                  INSTRUCTION UNDER TEST ROUTINE
00005724                                           7866+X249     DS    0F
00005724  E710 5034 0006                0000573C   7867+         VL    V1,RE249          get V1 source

0000572A                                           7870+         DS    0H                      E65F VTP - Vector Test Decimal
0000572A  E6                                       7871+         DC    X'E6'
0000572B  01                                       7872+         DC    X'01'                   v1
0000572C  080AF0                                   7873+         DC    HL3'527088'             0, I3, RXB
0000572F  5F                                       7874+         DC    X'5F'

00005730  B98D 0020                                7876+         EPSW  R2,R0             exptract psw
00005734  5020 8E9C                     0000109C   7877+         ST    R2,CCPSW              to save CC
00005738  07FB                                     7878+         BR    R11               return
0000573C                                           7879+RE249    DC    0F
0000573C                                           7880+         DROP  R5
0000573C  0FF00000 00000000                        7881          DC    XL16'0FF00000000000000000000000F009'   V1 source
00005744  00000000 0000F009
                                                   7882
                                                   7883 * BTP=0, STC=5, DC>0 and even
                                                   7884 *                                  sign: F valid, 0 digits
                                                   7885          VRR_G VTPX,X'80A6',1
00005750                                           7886+         DS    0FD
00005750                        00005750           7887+         USING *,R5              base for test data and test routine
00005750  0000576C                                 7888+T250     DC    A(X250)           address of test routine
00005754  00FA                                     7889+         DC    H'250'            test number
00005756  00                                       7890+         DC    XL1'00'
00005757  01                                       7891+         DC    HL1'1'            cc
00005758  0B                                       7892+         DC    HL1'11'           cc failed mask
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005759  E5E3D7E7 40404040                        7893+         DC    CL8'VTPX'         instruction name
00005764  00000010                                 7894+         DC    A(16)             result length
00005768  00005784                                 7895+REA250   DC    A(RE250)          result address
                                                   7896+*                                  INSTRUCTION UNDER TEST ROUTINE
0000576C                                           7897+X250     DS    0F
0000576C  E710 5034 0006                00005784   7898+         VL    V1,RE250          get V1 source

00005772                                           7901+         DS    0H                      E65F VTP - Vector Test Decimal
00005772  E6                                       7902+         DC    X'E6'
00005773  01                                       7903+         DC    X'01'                   v1
00005774  080A60                                   7904+         DC    HL3'526944'             0, I3, RXB
00005777  5F                                       7905+         DC    X'5F'

00005778  B98D 0020                                7907+         EPSW  R2,R0             exptract psw
0000577C  5020 8E9C                     0000109C   7908+         ST    R2,CCPSW              to save CC
00005780  07FB                                     7909+         BR    R11               return
00005784                                           7910+RE250    DC    0F
00005784                                           7911+         DROP  R5
00005784  0FF00000 00000000                        7912          DC    XL16'0FF00000000000000000000000000000B'   V1 source
0000578C  00000000 0000000B
                                                   7913
                                                   7914          VRR_G VTPX,X'80AA',1
00005798                                           7915+         DS    0FD
00005798                        00005798           7916+         USING *,R5              base for test data and test routine
00005798  000057B4                                 7917+T251     DC    A(X251)           address of test routine
0000579C  00FB                                     7918+         DC    H'251'            test number
0000579E  00                                       7919+         DC    XL1'00'
0000579F  01                                       7920+         DC    HL1'1'            cc
000057A0  0B                                       7921+         DC    HL1'11'           cc failed mask
000057A1  E5E3D7E7 40404040                        7922+         DC    CL8'VTPX'         instruction name
000057AC  00000010                                 7923+         DC    A(16)             result length
000057B0  000057CC                                 7924+REA251   DC    A(RE251)          result address
                                                   7925+*                                  INSTRUCTION UNDER TEST ROUTINE
000057B4                                           7926+X251     DS    0F
000057B4  E710 5034 0006                000057CC   7927+         VL    V1,RE251          get V1 source

000057BA                                           7930+         DS    0H                      E65F VTP - Vector Test Decimal
000057BA  E6                                       7931+         DC    X'E6'
000057BB  01                                       7932+         DC    X'01'                   v1
000057BC  080AA0                                   7933+         DC    HL3'527008'             0, I3, RXB
000057BF  5F                                       7934+         DC    X'5F'

000057C0  B98D 0020                                7936+         EPSW  R2,R0             exptract psw
000057C4  5020 8E9C                     0000109C   7937+         ST    R2,CCPSW              to save CC
000057C8  07FB                                     7938+         BR    R11               return
000057CC                                           7939+RE251    DC    0F
000057CC                                           7940+         DROP  R5
000057CC  0FF00000 00000000                        7941          DC    XL16'0FF00000000000000000000000000000C'   V1 source
000057D4  00000000 0000000C
                                                   7942
                                                   7943          VRR_G VTPX,X'80AA',1
000057E0                                           7944+         DS    0FD
000057E0                        000057E0           7945+         USING *,R5              base for test data and test routine
000057E0  000057FC                                 7946+T252     DC    A(X252)           address of test routine
000057E4  00FC                                     7947+         DC    H'252'            test number
000057E6  00                                       7948+         DC    XL1'00'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000057E7  01                                       7949+         DC    HL1'1'            cc
000057E8  0B                                       7950+         DC    HL1'11'           cc failed mask
000057E9  E5E3D7E7 40404040                        7951+         DC    CL8'VTPX'         instruction name
000057F4  00000010                                 7952+         DC    A(16)             result length
000057F8  00005814                                 7953+REA252   DC    A(RE252)          result address
                                                   7954+*                                  INSTRUCTION UNDER TEST ROUTINE
000057FC                                           7955+X252     DS    0F
000057FC  E710 5034 0006                00005814   7956+         VL    V1,RE252          get V1 source

00005802                                           7959+         DS    0H                      E65F VTP - Vector Test Decimal
00005802  E6                                       7960+         DC    X'E6'
00005803  01                                       7961+         DC    X'01'                   v1
00005804  080AA0                                   7962+         DC    HL3'527008'             0, I3, RXB
00005807  5F                                       7963+         DC    X'5F'

00005808  B98D 0020                                7965+         EPSW  R2,R0             exptract psw
0000580C  5020 8E9C                     0000109C   7966+         ST    R2,CCPSW              to save CC
00005810  07FB                                     7967+         BR    R11               return
00005814                                           7968+RE252    DC    0F
00005814                                           7969+         DROP  R5
00005814  0FF00000 00000000                        7970          DC    XL16'0FF000000000000000000000000000D'   V1 source
0000581C  00000000 0000000D
                                                   7971
                                                   7972          VRR_G VTPX,X'80AA',0
00005828                                           7973+         DS    0FD
00005828                      00005828             7974+         USING *,R5              base for test data and test routine
00005828  00005844                                 7975+T253     DC    A(X253)           address of test routine
0000582C  00FD                                     7976+         DC    H'253'            test number
0000582E  00                                       7977+         DC    XL1'00'
0000582F  00                                       7978+         DC    HL1'0'            cc
00005830  07                                       7979+         DC    HL1'7'            cc failed mask
00005831  E5E3D7E7 40404040                        7980+         DC    CL8'VTPX'         instruction name
0000583C  00000010                                 7981+         DC    A(16)             result length
00005840  0000585C                                 7982+REA253   DC    A(RE253)          result address
                                                   7983+*                                  INSTRUCTION UNDER TEST ROUTINE
00005844                                           7984+X253     DS    0F
00005844  E710 5034 0006                0000585C   7985+         VL    V1,RE253          get V1 source

0000584A                                           7988+         DS    0H                      E65F VTP - Vector Test Decimal
0000584A  E6                                       7989+         DC    X'E6'
0000584B  01                                       7990+         DC    X'01'                   v1
0000584C  080AA0                                   7991+         DC    HL3'527008'             0, I3, RXB
0000584F  5F                                       7992+         DC    X'5F'

00005850  B98D 0020                                7994+         EPSW  R2,R0             exptract psw
00005854  5020 8E9C                     0000109C   7995+         ST    R2,CCPSW              to save CC
00005858  07FB                                     7996+         BR    R11               return
0000585C                                           7997+RE253    DC    0F
0000585C                                           7998+         DROP  R5
0000585C  0FF00000 00000000                        7999          DC    XL16'0FF000000000000000000000000000F'   V1 source
00005864  00000000 0000000F
                                                   8000
                                                   8001 *                                  sign: F valid, non-0 digits
                                                   8002          VRR_G VTPX,X'80A4',1
00005870                                           8003+         DS    0FD
00005870                      00005870             8004+         USING *,R5              base for test data and test routine
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005870  0000588C                                 8005+T254     DC    A(X254)           address of test routine
00005874  00FE                                     8006+         DC    H'254'            test number
00005876  00                                       8007+         DC    XL1'00'
00005877  01                                       8008+         DC    HL1'1'            cc
00005878  0B                                       8009+         DC    HL1'11'           cc failed mask
00005879  E5E3D7E7 40404040                        8010+         DC    CL8'VTPX'         instruction name
00005884  00000010                                 8011+         DC    A(16)             result length
00005888  000058A4                                 8012+REA254   DC    A(RE254)          result address
                                                   8013+*                                  INSTRUCTION UNDER TEST ROUTINE
0000588C                                           8014+X254     DS    0F
0000588C  E710 5034 0006                000058A4   8015+         VL    V1,RE254          get V1 source

00005892                                           8018+         DS    0H                      E65F VTP - Vector Test Decimal
00005892  E6                                       8019+         DC    X'E6'
00005893  01                                       8020+         DC    X'01'                   v1
00005894  080A40                                   8021+         DC    HL3'526912'             0, I3, RXB
00005897  5F                                       8022+         DC    X'5F'

00005898  B98D 0020                                8024+         EPSW  R2,R0             exptract psw
0000589C  5020 8E9C                     0000109C   8025+         ST    R2,CCPSW              to save CC
000058A0  07FB                                     8026+         BR    R11               return
000058A4                                           8027+RE254    DC    0F
000058A4                                           8028+         DROP  R5
000058A4  0FF00000 00000000                        8029          DC    XL16'0FF00000000000000000000000100A'   V1 source
000058AC  00000000 0000100A
                                                   8030
                                                   8031          VRR_G VTPX,X'80A6',1
000058B8                                           8032+         DS    0FD
000058B8                        000058B8           8033+         USING *,R5              base for test data and test routine
000058B8  000058D4                                 8034+T255     DC    A(X255)           address of test routine
000058BC  00FF                                     8035+         DC    H'255'            test number
000058BE  00                                       8036+         DC    XL1'00'
000058BF  01                                       8037+         DC    HL1'1'            cc
000058C0  0B                                       8038+         DC    HL1'11'           cc failed mask
000058C1  E5E3D7E7 40404040                        8039+         DC    CL8'VTPX'         instruction name
000058CC  00000010                                 8040+         DC    A(16)             result length
000058D0  000058EC                                 8041+REA255   DC    A(RE255)          result address
                                                   8042+*                                  INSTRUCTION UNDER TEST ROUTINE
000058D4                                           8043+X255     DS    0F
000058D4  E710 5034 0006                000058EC   8044+         VL    V1,RE255          get V1 source

000058DA                                           8047+         DS    0H                      E65F VTP - Vector Test Decimal
000058DA  E6                                       8048+         DC    X'E6'
000058DB  01                                       8049+         DC    X'01'                   v1
000058DC  080A60                                   8050+         DC    HL3'526944'             0, I3, RXB
000058DF  5F                                       8051+         DC    X'5F'

000058E0  B98D 0020                                8053+         EPSW  R2,R0             exptract psw
000058E4  5020 8E9C                     0000109C   8054+         ST    R2,CCPSW              to save CC
000058E8  07FB                                     8055+         BR    R11               return
000058EC                                           8056+RE255    DC    0F
000058EC                                           8057+         DROP  R5
000058EC  0FF00000 00000000                        8058          DC    XL16'0FF00000000000000000000000100B'   V1 source
000058F4  00000000 0000100B
                                                   8059
                                                   8060          VRR_G VTPX,X'80A8',1
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005900                                           8061+         DS    0FD
00005900                     00005900              8062+         USING *,R5              base for test data and test routine
00005900  0000591C                                 8063+T256     DC    A(X256)           address of test routine
00005904  0100                                     8064+         DC    H'256'            test number
00005906  00                                       8065+         DC    XL1'00'
00005907  01                                       8066+         DC    HL1'1'            cc
00005908  0B                                       8067+         DC    HL1'11'           cc failed mask
00005909  E5E3D7E7 40404040                        8068+         DC    CL8'VTPX'         instruction name
00005914  00000010                                 8069+         DC    A(16)             result length
00005918  00005934                                 8070+REA256   DC    A(RE256)          result address
                                                   8071+*                                  INSTRUCTION UNDER TEST ROUTINE
0000591C                                           8072+X256     DS    0F
0000591C  E710 5034 0006                00005934   8073+         VL    V1,RE256          get V1 source

00005922                                           8076+         DS    0H                      E65F VTP - Vector Test Decimal
00005922  E6                                       8077+         DC    X'E6'
00005923  01                                       8078+         DC    X'01'                   v1
00005924  080A80                                   8079+         DC    HL3'526976'             0, I3, RXB
00005927  5F                                       8080+         DC    X'5F'

00005928  B98D 0020                                8082+         EPSW  R2,R0             exptract psw
0000592C  5020 8E9C                     0000109C   8083+         ST    R2,CCPSW              to save CC
00005930  07FB                                     8084+         BR    R11               return
00005934                                           8085+RE256    DC    0F
00005934                                           8086+         DROP  R5
00005934  0FF00000 00000000                        8087          DC    XL16'0FF0000000000000000000000000100C'   V1 source
0000593C  00000000 0000100C
                                                   8088
                                                   8089          VRR_G VTPX,X'80AA',1
00005948                                           8090+         DS    0FD
00005948                     00005948              8091+         USING *,R5              base for test data and test routine
00005948  00005964                                 8092+T257     DC    A(X257)           address of test routine
0000594C  0101                                     8093+         DC    H'257'            test number
0000594E  00                                       8094+         DC    XL1'00'
0000594F  01                                       8095+         DC    HL1'1'            cc
00005950  0B                                       8096+         DC    HL1'11'           cc failed mask
00005951  E5E3D7E7 40404040                        8097+         DC    CL8'VTPX'         instruction name
0000595C  00000010                                 8098+         DC    A(16)             result length
00005960  0000597C                                 8099+REA257   DC    A(RE257)          result address
                                                   8100+*                                  INSTRUCTION UNDER TEST ROUTINE
00005964                                           8101+X257     DS    0F
00005964  E710 5034 0006                0000597C   8102+         VL    V1,RE257          get V1 source

0000596A                                           8105+         DS    0H                      E65F VTP - Vector Test Decimal
0000596A  E6                                       8106+         DC    X'E6'
0000596B  01                                       8107+         DC    X'01'                   v1
0000596C  080AA0                                   8108+         DC    HL3'527008'             0, I3, RXB
0000596F  5F                                       8109+         DC    X'5F'

00005970  B98D 0020                                8111+         EPSW  R2,R0             exptract psw
00005974  5020 8E9C                     0000109C   8112+         ST    R2,CCPSW              to save CC
00005978  07FB                                     8113+         BR    R11               return
0000597C                                           8114+RE257    DC    0F
0000597C                                           8115+         DROP  R5
0000597C  0FF00000 00000000                        8116          DC    XL16'0FF0000000000000000000000000100D'   V1 source
00005984  00000000 0000100D
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   8117
                                                   8118          VRR_G VTPX,X'80AC',1
00005990                                           8119+         DS    0FD
00005990                     00005990              8120+         USING *,R5              base for test data and test routine
00005990  000059AC                                 8121+T258     DC    A(X258)           address of test routine
00005994  0102                                     8122+         DC    H'258'            test number
00005996  00                                       8123+         DC    XL1'00'
00005997  01                                       8124+         DC    HL1'1'            cc
00005998  0B                                       8125+         DC    HL1'11'           cc failed mask
00005999  E5E3D7E7 40404040                        8126+         DC    CL8'VTPX'         instruction name
000059A4  00000010                                 8127+         DC    A(16)             result length
000059A8  000059C4                                 8128+REA258   DC    A(RE258)          result address
                                                   8129+*                                  INSTRUCTION UNDER TEST ROUTINE
000059AC                                           8130+X258     DS    0F
000059AC  E710 5034 0006               000059C4    8131+         VL    V1,RE258          get V1 source

000059B2                                           8134+         DS    0H                      E65F VTP - Vector Test Decimal
000059B2  E6                                       8135+         DC    X'E6'
000059B3  01                                       8136+         DC    X'01'                   v1
000059B4  080AC0                                   8137+         DC    HL3'527040'             0, I3, RXB
000059B7  5F                                       8138+         DC    X'5F'

000059B8  B98D 0020                                8140+         EPSW  R2,R0             exptract psw
000059BC  5020 8E9C                    0000109C    8141+         ST    R2,CCPSW              to save CC
000059C0  07FB                                     8142+         BR    R11               return
000059C4                                           8143+RE258    DC    0F
000059C4                                           8144+         DROP  R5
000059C4  0FF00000 00000000                        8145          DC    XL16'0FF0000000000000000000000100E'   V1 source
000059CC  00000000 0000100E
                                                   8146
                                                   8147          VRR_G VTPX,X'80AE',0
000059D8                                           8148+         DS    0FD
000059D8                     000059D8              8149+         USING *,R5              base for test data and test routine
000059D8  000059F4                                 8150+T259     DC    A(X259)           address of test routine
000059DC  0103                                     8151+         DC    H'259'            test number
000059DE  00                                       8152+         DC    XL1'00'
000059DF  00                                       8153+         DC    HL1'0'            cc
000059E0  07                                       8154+         DC    HL1'7'            cc failed mask
000059E1  E5E3D7E7 40404040                        8155+         DC    CL8'VTPX'         instruction name
000059EC  00000010                                 8156+         DC    A(16)             result length
000059F0  00005A0C                                 8157+REA259   DC    A(RE259)          result address
                                                   8158+*                                  INSTRUCTION UNDER TEST ROUTINE
000059F4                                           8159+X259     DS    0F
000059F4  E710 5034 0006               00005A0C    8160+         VL    V1,RE259          get V1 source

000059FA                                           8163+         DS    0H                      E65F VTP - Vector Test Decimal
000059FA  E6                                       8164+         DC    X'E6'
000059FB  01                                       8165+         DC    X'01'                   v1
000059FC  080AE0                                   8166+         DC    HL3'527072'             0, I3, RXB
000059FF  5F                                       8167+         DC    X'5F'

00005A00  B98D 0020                                8169+         EPSW  R2,R0             exptract psw
00005A04  5020 8E9C                    0000109C    8170+         ST    R2,CCPSW              to save CC
00005A08  07FB                                     8171+         BR    R11               return
00005A0C                                           8172+RE259    DC    0F
00005A0C                                           8173+         DROP  R5
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005A0C  0FF00000 00000000                        8174          DC    XL16'0FF00000000000000000000000100F'   V1 source
00005A14  00000000 0000100F
                                                   8175
                                                   8176          VRR_G VTPX,X'80AE',1
00005A20                                           8177+         DS    0FD
00005A20                     00005A20              8178+         USING *,R5               base for test data and test routine
00005A20  00005A3C                                 8179+T260     DC    A(X260)            address of test routine
00005A24  0104                                     8180+         DC    H'260'             test number
00005A26  00                                       8181+         DC    XL1'00'
00005A27  01                                       8182+         DC    HL1'1'             cc
00005A28  0B                                       8183+         DC    HL1'11'            cc failed mask
00005A29  E5E3D7E7 40404040                        8184+         DC    CL8'VTPX'          instruction name
00005A34  00000010                                 8185+         DC    A(16)              result length
00005A38  00005A54                                 8186+REA260   DC    A(RE260)           result address
                                                   8187+*                                   INSTRUCTION UNDER TEST ROUTINE
00005A3C                                           8188+X260     DS    0F
00005A3C  E710 5034 0006                00005A54   8189+         VL    V1,RE260           get V1 source

00005A42                                           8192+         DS    0H                       E65F VTP - Vector Test Decimal
00005A42  E6                                       8193+         DC    X'E6'
00005A43  01                                       8194+         DC    X'01'                    v1
00005A44  080AE0                                   8195+         DC    HL3'527072'              0, I3, RXB
00005A47  5F                                       8196+         DC    X'5F'

00005A48  B98D 0020                                8198+         EPSW  R2,R0              exptract psw
00005A4C  5020 8E9C                     0000109C   8199+         ST    R2,CCPSW               to save CC
00005A50  07FB                                     8200+         BR    R11                return
00005A54                                           8201+RE260    DC    0F
00005A54                                           8202+         DROP  R5
00005A54  0FF00000 00000000                        8203          DC    XL16'0FF00000000000000000000001000'   V1 source
00005A5C  00000000 00001000
                                                   8204
                                                   8205          VRR_G VTPX,X'80AE',2
00005A68                                           8206+         DS    0FD
00005A68                     00005A68              8207+         USING *,R5               base for test data and test routine
00005A68  00005A84                                 8208+T261     DC    A(X261)            address of test routine
00005A6C  0105                                     8209+         DC    H'261'             test number
00005A6E  00                                       8210+         DC    XL1'00'
00005A6F  02                                       8211+         DC    HL1'2'             cc
00005A70  0D                                       8212+         DC    HL1'13'            cc failed mask
00005A71  E5E3D7E7 40404040                        8213+         DC    CL8'VTPX'          instruction name
00005A7C  00000010                                 8214+         DC    A(16)              result length
00005A80  00005A9C                                 8215+REA261   DC    A(RE261)           result address
                                                   8216+*                                   INSTRUCTION UNDER TEST ROUTINE
00005A84                                           8217+X261     DS    0F
00005A84  E710 5034 0006                00005A9C   8218+         VL    V1,RE261           get V1 source

00005A8A                                           8221+         DS    0H                       E65F VTP - Vector Test Decimal
00005A8A  E6                                       8222+         DC    X'E6'
00005A8B  01                                       8223+         DC    X'01'                    v1
00005A8C  080AE0                                   8224+         DC    HL3'527072'              0, I3, RXB
00005A8F  5F                                       8225+         DC    X'5F'

00005A90  B98D 0020                                8227+         EPSW  R2,R0              exptract psw
00005A94  5020 8E9C                     0000109C   8228+         ST    R2,CCPSW               to save CC
00005A98  07FB                                     8229+         BR    R11                return
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005A9C                                           8230+RE261    DC    0F
00005A9C                                           8231+         DROP  R5
00005A9C  0FF00000 00000000                        8232          DC    XL16'0FF00000000000000000000000F00F'   V1 source
00005AA4  00000000 0000F00F
                                                   8233
                                                   8234          VRR_G VTPX,X'80AE',3
00005AB0                                           8235+         DS    0FD
00005AB0                      00005AB0             8236+         USING *,R5              base for test data and test routine
00005AB0  00005ACC                                 8237+T262     DC    A(X262)           address of test routine
00005AB4  0106                                     8238+         DC    H'262'            test number
00005AB6  00                                       8239+         DC    XL1'00'
00005AB7  03                                       8240+         DC    HL1'3'            cc
00005AB8  0E                                       8241+         DC    HL1'14'           cc failed mask
00005AB9  E5E3D7E7 40404040                        8242+         DC    CL8'VTPX'         instruction name
00005AC4  00000010                                 8243+         DC    A(16)             result length
00005AC8  00005AE4                                 8244+REA262   DC    A(RE262)          result address
                                                   8245+*                                  INSTRUCTION UNDER TEST ROUTINE
00005ACC                                           8246+X262     DS    0F
00005ACC  E710 5034 0006                00005AE4   8247+         VL    V1,RE262          get V1 source

00005AD2                                           8250+         DS    0H                      E65F VTP - Vector Test Decimal
00005AD2  E6                                       8251+         DC    X'E6'
00005AD3  01                                       8252+         DC    X'01'                   v1
00005AD4  080AE0                                   8253+         DC    HL3'527072'             0, I3, RXB
00005AD7  5F                                       8254+         DC    X'5F'

00005AD8  B98D 0020                                8256+         EPSW  R2,R0             exptract psw
00005ADC  5020 8E9C                     0000109C   8257+         ST    R2,CCPSW              to save CC
00005AE0  07FB                                     8258+         BR    R11               return
00005AE4                                           8259+RE262    DC    0F
00005AE4                                           8260+         DROP  R5
00005AE4  0FF00000 00000000                        8261          DC    XL16'0FF00000000000000000000000F009'   V1 source
00005AEC  00000000 0000F009
                                                   8262
                                                   8263 * BTP=1, STC=5, DC>0 and even
                                                   8264 *                                  sign: F    valid, 0 digits
                                                   8265          VRR_G VTPX,X'C0A6',1
00005AF8                                           8266+         DS    0FD
00005AF8                      00005AF8             8267+         USING *,R5              base for test data and test routine
00005AF8  00005B14                                 8268+T263     DC    A(X263)           address of test routine
00005AFC  0107                                     8269+         DC    H'263'            test number
00005AFE  00                                       8270+         DC    XL1'00'
00005AFF  01                                       8271+         DC    HL1'1'            cc
00005B00  0B                                       8272+         DC    HL1'11'           cc failed mask
00005B01  E5E3D7E7 40404040                        8273+         DC    CL8'VTPX'         instruction name
00005B0C  00000010                                 8274+         DC    A(16)             result length
00005B10  00005B2C                                 8275+REA263   DC    A(RE263)          result address
                                                   8276+*                                  INSTRUCTION UNDER TEST ROUTINE
00005B14                                           8277+X263     DS    0F
00005B14  E710 5034 0006                00005B2C   8278+         VL    V1,RE263          get V1 source

00005B1A                                           8281+         DS    0H                      E65F VTP - Vector Test Decimal
00005B1A  E6                                       8282+         DC    X'E6'
00005B1B  01                                       8283+         DC    X'01'                   v1
00005B1C  0C0A60                                   8284+         DC    HL3'789088'             0, I3, RXB
00005B1F  5F                                       8285+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005B20  B98D 0020                               8287+         EPSW  R2,R0              exptract psw
00005B24  5020 8E9C                     0000109C  8288+         ST    R2,CCPSW               to save CC
00005B28  07FB                                    8289+         BR    R11                return
00005B2C                                          8290+RE263    DC    0F
00005B2C                                          8291+         DROP  R5
00005B2C  0FF00000 00000000                       8292          DC    XL16'0FF00000000000000000000000000000B'   V1 source
00005B34  00000000 0000000B
                                                  8293
                                                  8294          VRR_G VTPX,X'C0AA',1
00005B40                                          8295+         DS    0FD
00005B40                        00005B40          8296+         USING *,R5               base for test data and test routine
00005B40  00005B5C                                8297+T264     DC    A(X264)            address of test routine
00005B44  0108                                    8298+         DC    H'264'             test number
00005B46  00                                      8299+         DC    XL1'00'
00005B47  01                                      8300+         DC    HL1'1'             cc
00005B48  0B                                      8301+         DC    HL1'11'            cc failed mask
00005B49  E5E3D7E7 40404040                       8302+         DC    CL8'VTPX'          instruction name
00005B54  00000010                                8303+         DC    A(16)              result length
00005B58  00005B74                                8304+REA264   DC    A(RE264)           result address
                                                  8305+*                                 INSTRUCTION UNDER TEST ROUTINE
00005B5C                                          8306+X264     DS    0F
00005B5C  E710 5034 0006                00005B74  8307+         VL    V1,RE264           get V1 source

00005B62                                          8310+         DS    0H                       E65F VTP - Vector Test Decimal
00005B62  E6                                      8311+         DC    X'E6'
00005B63  01                                      8312+         DC    X'01'                    v1
00005B64  0C0AA0                                  8313+         DC    HL3'789152'              0, I3, RXB
00005B67  5F                                      8314+         DC    X'5F'

00005B68  B98D 0020                               8316+         EPSW  R2,R0              exptract psw
00005B6C  5020 8E9C                     0000109C  8317+         ST    R2,CCPSW               to save CC
00005B70  07FB                                    8318+         BR    R11                return
00005B74                                          8319+RE264    DC    0F
00005B74                                          8320+         DROP  R5
00005B74  0FF00000 00000000                       8321          DC    XL16'0FF00000000000000000000000000000C'   V1 source
00005B7C  00000000 0000000C
                                                  8322
                                                  8323          VRR_G VTPX,X'C0AA',1
00005B88                                          8324+         DS    0FD
00005B88                        00005B88          8325+         USING *,R5               base for test data and test routine
00005B88  00005BA4                                8326+T265     DC    A(X265)            address of test routine
00005B8C  0109                                    8327+         DC    H'265'             test number
00005B8E  00                                      8328+         DC    XL1'00'
00005B8F  01                                      8329+         DC    HL1'1'             cc
00005B90  0B                                      8330+         DC    HL1'11'            cc failed mask
00005B91  E5E3D7E7 40404040                       8331+         DC    CL8'VTPX'          instruction name
00005B9C  00000010                                8332+         DC    A(16)              result length
00005BA0  00005BBC                                8333+REA265   DC    A(RE265)           result address
                                                  8334+*                                 INSTRUCTION UNDER TEST ROUTINE
00005BA4                                          8335+X265     DS    0F
00005BA4  E710 5034 0006                00005BBC  8336+         VL    V1,RE265           get V1 source

00005BAA                                          8339+         DS    0H                       E65F VTP - Vector Test Decimal
00005BAA  E6                                      8340+         DC    X'E6'
00005BAB  01                                      8341+         DC    X'01'                    v1
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005BAC  0C0AA0                                   8342+         DC    HL3'789152'             0, I3, RXB
00005BAF  5F                                       8343+         DC    X'5F'

00005BB0  B98D 0020                                8345+         EPSW  R2,R0             exptract psw
00005BB4  5020 8E9C                     0000109C   8346+         ST    R2,CCPSW              to save CC
00005BB8  07FB                                     8347+         BR    R11               return
00005BBC                                           8348+RE265    DC    0F
00005BBC                                           8349+         DROP  R5
00005BBC  0FF00000 00000000                        8350          DC    XL16'0FF00000000000000000000000000D'   V1 source
00005BC4  00000000 0000000D
                                                   8351
                                                   8352          VRR_G VTPX,X'C0AA',0
00005BD0                                           8353+         DS    0FD
00005BD0                        00005BD0           8354+         USING *,R5              base for test data and test routine
00005BD0  00005BEC                                 8355+T266     DC    A(X266)           address of test routine
00005BD4  010A                                     8356+         DC    H'266'            test number
00005BD6  00                                       8357+         DC    XL1'00'
00005BD7  00                                       8358+         DC    HL1'0'            cc
00005BD8  07                                       8359+         DC    HL1'7'            cc failed mask
00005BD9  E5E3D7E7 40404040                        8360+         DC    CL8'VTPX'         instruction name
00005BE4  00000010                                 8361+         DC    A(16)             result length
00005BE8  00005C04                                 8362+REA266   DC    A(RE266)          result address
                                                   8363+*                                  INSTRUCTION UNDER TEST ROUTINE
00005BEC                                           8364+X266     DS    0F
00005BEC  E710 5034 0006                00005C04   8365+         VL    V1,RE266          get V1 source

00005BF2                                           8368+         DS    0H                      E65F VTP - Vector Test Decimal
00005BF2  E6                                       8369+         DC    X'E6'
00005BF3  01                                       8370+         DC    X'01'                   v1
00005BF4  0C0AA0                                   8371+         DC    HL3'789152'             0, I3, RXB
00005BF7  5F                                       8372+         DC    X'5F'

00005BF8  B98D 0020                                8374+         EPSW  R2,R0             exptract psw
00005BFC  5020 8E9C                     0000109C   8375+         ST    R2,CCPSW              to save CC
00005C00  07FB                                     8376+         BR    R11               return
00005C04                                           8377+RE266    DC    0F
00005C04                                           8378+         DROP  R5
00005C04  0FF00000 00000000                        8379          DC    XL16'0FF00000000000000000000000000F'   V1 source
00005C0C  00000000 0000000F
                                                   8380
                                                   8381 *                                  sign: F  valid, non-0 digits
                                                   8382          VRR_G VTPX,X'C0A4',1
00005C18                                           8383+         DS    0FD
00005C18                        00005C18           8384+         USING *,R5              base for test data and test routine
00005C18  00005C34                                 8385+T267     DC    A(X267)           address of test routine
00005C1C  010B                                     8386+         DC    H'267'            test number
00005C1E  00                                       8387+         DC    XL1'00'
00005C1F  01                                       8388+         DC    HL1'1'            cc
00005C20  0B                                       8389+         DC    HL1'11'           cc failed mask
00005C21  E5E3D7E7 40404040                        8390+         DC    CL8'VTPX'         instruction name
00005C2C  00000010                                 8391+         DC    A(16)             result length
00005C30  00005C4C                                 8392+REA267   DC    A(RE267)          result address
                                                   8393+*                                  INSTRUCTION UNDER TEST ROUTINE
00005C34                                           8394+X267     DS    0F
00005C34  E710 5034 0006                00005C4C   8395+         VL    V1,RE267          get V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005C3A                                           8398+         DS    0H                      E65F VTP - Vector Test Decimal
00005C3A  E6                                       8399+         DC    X'E6'
00005C3B  01                                       8400+         DC    X'01'                   v1
00005C3C  0C0A40                                   8401+         DC    HL3'789056'             0, I3, RXB
00005C3F  5F                                       8402+         DC    X'5F'

00005C40  B98D 0020                                8404+         EPSW  R2,R0             exptract psw
00005C44  5020 8E9C                     0000109C   8405+         ST    R2,CCPSW              to save CC
00005C48  07FB                                     8406+         BR    R11               return
00005C4C                                           8407+RE267    DC    0F
00005C4C                                           8408+         DROP  R5
00005C4C  0FF00000 00000000                        8409          DC    XL16'0FF0000000000000000000000000100A'   V1 source
00005C54  00000000 0000100A
                                                   8410
                                                   8411          VRR_G VTPX,X'C0A6',1
00005C60                                           8412+         DS    0FD
00005C60                        00005C60           8413+         USING *,R5              base for test data and test routine
00005C60  00005C7C                                 8414+T268     DC    A(X268)           address of test routine
00005C64  010C                                     8415+         DC    H'268'            test number
00005C66  00                                       8416+         DC    XL1'00'
00005C67  01                                       8417+         DC    HL1'1'            cc
00005C68  0B                                       8418+         DC    HL1'11'           cc failed mask
00005C69  E5E3D7E7 40404040                        8419+         DC    CL8'VTPX'         instruction name
00005C74  00000010                                 8420+         DC    A(16)             result length
00005C78  00005C94                                 8421+REA268   DC    A(RE268)          result address
                                                   8422+*                                  INSTRUCTION UNDER TEST ROUTINE
00005C7C                                           8423+X268     DS    0F
00005C7C  E710 5034 0006                00005C94   8424+         VL    V1,RE268          get V1 source

00005C82                                           8427+         DS    0H                      E65F VTP - Vector Test Decimal
00005C82  E6                                       8428+         DC    X'E6'
00005C83  01                                       8429+         DC    X'01'                   v1
00005C84  0C0A60                                   8430+         DC    HL3'789088'             0, I3, RXB
00005C87  5F                                       8431+         DC    X'5F'

00005C88  B98D 0020                                8433+         EPSW  R2,R0             exptract psw
00005C8C  5020 8E9C                     0000109C   8434+         ST    R2,CCPSW              to save CC
00005C90  07FB                                     8435+         BR    R11               return
00005C94                                           8436+RE268    DC    0F
00005C94                                           8437+         DROP  R5
00005C94  0FF00000 00000000                        8438          DC    XL16'0FF0000000000000000000000000100B'   V1 source
00005C9C  00000000 0000100B
                                                   8439
                                                   8440          VRR_G VTPX,X'C0A8',1
00005CA8                                           8441+         DS    0FD
00005CA8                        00005CA8           8442+         USING *,R5              base for test data and test routine
00005CA8  00005CC4                                 8443+T269     DC    A(X269)           address of test routine
00005CAC  010D                                     8444+         DC    H'269'            test number
00005CAE  00                                       8445+         DC    XL1'00'
00005CAF  01                                       8446+         DC    HL1'1'            cc
00005CB0  0B                                       8447+         DC    HL1'11'           cc failed mask
00005CB1  E5E3D7E7 40404040                        8448+         DC    CL8'VTPX'         instruction name
00005CBC  00000010                                 8449+         DC    A(16)             result length
00005CC0  00005CDC                                 8450+REA269   DC    A(RE269)          result address
                                                   8451+*                                  INSTRUCTION UNDER TEST ROUTINE
00005CC4                                           8452+X269     DS    0F
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005CC4  E710 5034 0006                00005CDC  8453+         VL    V1,RE269          get V1 source

00005CCA                                          8456+         DS    0H                      E65F VTP - Vector Test Decimal
00005CCA  E6                                      8457+         DC    X'E6'
00005CCB  01                                      8458+         DC    X'01'                   v1
00005CCC  0C0A80                                  8459+         DC    HL3'789120'             0, I3, RXB
00005CCF  5F                                      8460+         DC    X'5F'

00005CD0  B98D 0020                               8462+         EPSW  R2,R0             exptract psw
00005CD4  5020 8E9C                     0000109C  8463+         ST    R2,CCPSW              to save CC
00005CD8  07FB                                    8464+         BR    R11               return
00005CDC                                          8465+RE269    DC    0F
00005CDC                                          8466+         DROP  R5
00005CDC  0FF00000 00000000                       8467          DC    XL16'0FF00000000000000000000000100C'   V1 source
00005CE4  00000000 0000100C
                                                  8468
                                                  8469          VRR_G VTPX,X'C0AA',1
00005CF0                                          8470+         DS    0FD
00005CF0                        00005CF0          8471+         USING *,R5              base for test data and test routine
00005CF0  00005D0C                                8472+T270     DC    A(X270)           address of test routine
00005CF4  010E                                    8473+         DC    H'270'            test number
00005CF6  00                                      8474+         DC    XL1'00'
00005CF7  01                                      8475+         DC    HL1'1'            cc
00005CF8  0B                                      8476+         DC    HL1'11'           cc failed mask
00005CF9  E5E3D7E7 40404040                       8477+         DC    CL8'VTPX'         instruction name
00005D04  00000010                                8478+         DC    A(16)             result length
00005D08  00005D24                                8479+REA270   DC    A(RE270)          result address
                                                  8480+*                                  INSTRUCTION UNDER TEST ROUTINE
00005D0C                                          8481+X270     DS    0F
00005D0C  E710 5034 0006                00005D24  8482+         VL    V1,RE270          get V1 source

00005D12                                          8485+         DS    0H                      E65F VTP - Vector Test Decimal
00005D12  E6                                      8486+         DC    X'E6'
00005D13  01                                      8487+         DC    X'01'                   v1
00005D14  0C0AA0                                  8488+         DC    HL3'789152'             0, I3, RXB
00005D17  5F                                      8489+         DC    X'5F'

00005D18  B98D 0020                               8491+         EPSW  R2,R0             exptract psw
00005D1C  5020 8E9C                     0000109C  8492+         ST    R2,CCPSW              to save CC
00005D20  07FB                                    8493+         BR    R11               return
00005D24                                          8494+RE270    DC    0F
00005D24                                          8495+         DROP  R5
00005D24  0FF00000 00000000                       8496          DC    XL16'0FF00000000000000000000000100D'   V1 source
00005D2C  00000000 0000100D
                                                  8497
                                                  8498          VRR_G VTPX,X'C0AC',1
00005D38                                          8499+         DS    0FD
00005D38                        00005D38          8500+         USING *,R5              base for test data and test routine
00005D38  00005D54                                8501+T271     DC    A(X271)           address of test routine
00005D3C  010F                                    8502+         DC    H'271'            test number
00005D3E  00                                      8503+         DC    XL1'00'
00005D3F  01                                      8504+         DC    HL1'1'            cc
00005D40  0B                                      8505+         DC    HL1'11'           cc failed mask
00005D41  E5E3D7E7 40404040                       8506+         DC    CL8'VTPX'         instruction name
00005D4C  00000010                                8507+         DC    A(16)             result length
00005D50  00005D6C                                8508+REA271   DC    A(RE271)          result address
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   8509+*                                INSTRUCTION UNDER TEST ROUTINE
00005D54                                           8510+X271     DS    0F
00005D54  E710 5034 0006                00005D6C   8511+         VL    V1,RE271          get V1 source

00005D5A                                           8514+         DS    0H                      E65F VTP - Vector Test Decimal
00005D5A  E6                                       8515+         DC    X'E6'
00005D5B  01                                       8516+         DC    X'01'                   v1
00005D5C  0C0AC0                                   8517+         DC    HL3'789184'             0, I3, RXB
00005D5F  5F                                       8518+         DC    X'5F'

00005D60  B98D 0020                                8520+         EPSW  R2,R0             exptract psw
00005D64  5020 8E9C                     0000109C   8521+         ST    R2,CCPSW              to save CC
00005D68  07FB                                     8522+         BR    R11               return
00005D6C                                           8523+RE271    DC    0F
00005D6C                                           8524+         DROP  R5
00005D6C  0FF00000 00000000                        8525          DC    XL16'0FF00000000000000000000000100E'   V1 source
00005D74  00000000 0000100E
                                                   8526
                                                   8527          VRR_G VTPX,X'C0A4',0
00005D80                                           8528+         DS    0FD
00005D80                        00005D80           8529+         USING *,R5              base for test data and test routine
00005D80  00005D9C                                 8530+T272     DC    A(X272)           address of test routine
00005D84  0110                                     8531+         DC    H'272'            test number
00005D86  00                                       8532+         DC    XL1'00'
00005D87  00                                       8533+         DC    HL1'0'            cc
00005D88  07                                       8534+         DC    HL1'7'            cc failed mask
00005D89  E5E3D7E7 40404040                        8535+         DC    CL8'VTPX'         instruction name
00005D94  00000010                                 8536+         DC    A(16)             result length
00005D98  00005DB4                                 8537+REA272   DC    A(RE272)          result address
                                                   8538+*                                INSTRUCTION UNDER TEST ROUTINE
00005D9C                                           8539+X272     DS    0F
00005D9C  E710 5034 0006                00005DB4   8540+         VL    V1,RE272          get V1 source

00005DA2                                           8543+         DS    0H                      E65F VTP - Vector Test Decimal
00005DA2  E6                                       8544+         DC    X'E6'
00005DA3  01                                       8545+         DC    X'01'                   v1
00005DA4  0C0A40                                   8546+         DC    HL3'789056'             0, I3, RXB
00005DA7  5F                                       8547+         DC    X'5F'

00005DA8  B98D 0020                                8549+         EPSW  R2,R0             exptract psw
00005DAC  5020 8E9C                     0000109C   8550+         ST    R2,CCPSW              to save CC
00005DB0  07FB                                     8551+         BR    R11               return
00005DB4                                           8552+RE272    DC    0F
00005DB4                                           8553+         DROP  R5
00005DB4  0FF00000 00000000                        8554          DC    XL16'0FF00000000000000000000001100F'   V1 source
00005DBC  00000000 0001100F
                                                   8555
                                                   8556          VRR_G VTPX,X'C0A4',2
00005DC8                                           8557+         DS    0FD
00005DC8                        00005DC8           8558+         USING *,R5              base for test data and test routine
00005DC8  00005DE4                                 8559+T273     DC    A(X273)           address of test routine
00005DCC  0111                                     8560+         DC    H'273'            test number
00005DCE  00                                       8561+         DC    XL1'00'
00005DCF  02                                       8562+         DC    HL1'2'            cc
00005DD0  0D                                       8563+         DC    HL1'13'           cc failed mask
00005DD1  E5E3D7E7 40404040                        8564+         DC    CL8'VTPX'         instruction name
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005DDC  00000010                                 8565+         DC    A(16)              result length
00005DE0  00005DFC                                 8566+REA273   DC    A(RE273)           result address
                                                   8567+*                                   INSTRUCTION UNDER TEST ROUTINE
00005DE4                                           8568+X273     DS    0F
00005DE4  E710 5034 0006                00005DFC   8569+         VL    V1,RE273           get V1 source

00005DEA                                           8572+         DS    0H                       E65F VTP - Vector Test Decimal
00005DEA  E6                                       8573+         DC    X'E6'
00005DEB  01                                       8574+         DC    X'01'                    v1
00005DEC  0C0A40                                   8575+         DC    HL3'789056'              0, I3, RXB
00005DEF  5F                                       8576+         DC    X'5F'

00005DF0  B98D 0020                                8578+         EPSW  R2,R0              exptract psw
00005DF4  5020 8E9C                     0000109C   8579+         ST    R2,CCPSW               to save CC
00005DF8  07FB                                     8580+         BR    R11                return
00005DFC                                           8581+RE273    DC    0F
00005DFC                                           8582+         DROP  R5
00005DFC  0FF00000 00000000                        8583          DC    XL16'0FF00000000000000000000011100F'   V1 source
00005E04  00000000 0011100F
                                                   8584
                                                   8585          VRR_G VTPX,X'C0A4',1
00005E10                                           8586+         DS    0FD
00005E10                        00005E10           8587+         USING *,R5               base for test data and test routine
00005E10  00005E2C                                 8588+T274     DC    A(X274)            address of test routine
00005E14  0112                                     8589+         DC    H'274'             test number
00005E16  00                                       8590+         DC    XL1'00'
00005E17  01                                       8591+         DC    HL1'1'             cc
00005E18  0B                                       8592+         DC    HL1'11'            cc failed mask
00005E19  E5E3D7E7 40404040                        8593+         DC    CL8'VTPX'          instruction name
00005E24  00000010                                 8594+         DC    A(16)              result length
00005E28  00005E44                                 8595+REA274   DC    A(RE274)           result address
                                                   8596+*                                   INSTRUCTION UNDER TEST ROUTINE
00005E2C                                           8597+X274     DS    0F
00005E2C  E710 5034 0006                00005E44   8598+         VL    V1,RE274           get V1 source

00005E32                                           8601+         DS    0H                       E65F VTP - Vector Test Decimal
00005E32  E6                                       8602+         DC    X'E6'
00005E33  01                                       8603+         DC    X'01'                    v1
00005E34  0C0A40                                   8604+         DC    HL3'789056'              0, I3, RXB
00005E37  5F                                       8605+         DC    X'5F'

00005E38  B98D 0020                                8607+         EPSW  R2,R0              exptract psw
00005E3C  5020 8E9C                     0000109C   8608+         ST    R2,CCPSW               to save CC
00005E40  07FB                                     8609+         BR    R11                return
00005E44                                           8610+RE274    DC    0F
00005E44                                           8611+         DROP  R5
00005E44  0FF00000 00000000                        8612          DC    XL16'0FF00000000000000000000011000'   V1 source
00005E4C  00000000 00011000
                                                   8613
                                                   8614          VRR_G VTPX,X'C0A4',2
00005E58                                           8615+         DS    0FD
00005E58                        00005E58           8616+         USING *,R5               base for test data and test routine
00005E58  00005E74                                 8617+T275     DC    A(X275)            address of test routine
00005E5C  0113                                     8618+         DC    H'275'             test number
00005E5E  00                                       8619+         DC    XL1'00'
00005E5F  02                                       8620+         DC    HL1'2'             cc
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005E60  0D                                       8621+         DC    HL1'13'           cc failed mask
00005E61  E5E3D7E7 40404040                        8622+         DC    CL8'VTPX'         instruction name
00005E6C  00000010                                 8623+         DC    A(16)             result length
00005E70  00005E8C                                 8624+REA275   DC    A(RE275)          result address
                                                   8625+*                                  INSTRUCTION UNDER TEST ROUTINE
00005E74                                           8626+X275     DS    0F
00005E74  E710 5034 0006                00005E8C   8627+         VL    V1,RE275          get V1 source

00005E7A                                           8630+         DS    0H                      E65F VTP - Vector Test Decimal
00005E7A  E6                                       8631+         DC    X'E6'
00005E7B  01                                       8632+         DC    X'01'                   v1
00005E7C  0C0A40                                   8633+         DC    HL3'789056'             0, I3, RXB
00005E7F  5F                                       8634+         DC    X'5F'

00005E80  B98D 0020                                8636+         EPSW  R2,R0             exptract psw
00005E84  5020 8E9C                     0000109C   8637+         ST    R2,CCPSW              to save CC
00005E88  07FB                                     8638+         BR    R11               return
00005E8C                                           8639+RE275    DC    0F
00005E8C                                           8640+         DROP  R5
00005E8C  0FF00000 00000000                        8641          DC    XL16'0FF00000000000000000000001F00F'   V1 source
00005E94  00000000 0001F00F
                                                   8642
                                                   8643          VRR_G VTPX,X'C0A4',3
00005EA0                                           8644+         DS    0FD
00005EA0                        00005EA0           8645+         USING *,R5              base for test data and test routine
00005EA0  00005EBC                                 8646+T276     DC    A(X276)           address of test routine
00005EA4  0114                                     8647+         DC    H'276'            test number
00005EA6  00                                       8648+         DC    XL1'00'
00005EA7  03                                       8649+         DC    HL1'3'            cc
00005EA8  0E                                       8650+         DC    HL1'14'           cc failed mask
00005EA9  E5E3D7E7 40404040                        8651+         DC    CL8'VTPX'         instruction name
00005EB4  00000010                                 8652+         DC    A(16)             result length
00005EB8  00005ED4                                 8653+REA276   DC    A(RE276)          result address
                                                   8654+*                                  INSTRUCTION UNDER TEST ROUTINE
00005EBC                                           8655+X276     DS    0F
00005EBC  E710 5034 0006                00005ED4   8656+         VL    V1,RE276          get V1 source

00005EC2                                           8659+         DS    0H                      E65F VTP - Vector Test Decimal
00005EC2  E6                                       8660+         DC    X'E6'
00005EC3  01                                       8661+         DC    X'01'                   v1
00005EC4  0C0A40                                   8662+         DC    HL3'789056'             0, I3, RXB
00005EC7  5F                                       8663+         DC    X'5F'

00005EC8  B98D 0020                                8665+         EPSW  R2,R0             exptract psw
00005ECC  5020 8E9C                     0000109C   8666+         ST    R2,CCPSW              to save CC
00005ED0  07FB                                     8667+         BR    R11               return
00005ED4                                           8668+RE276    DC    0F
00005ED4                                           8669+         DROP  R5
00005ED4  0FF00000 00000000                        8670          DC    XL16'0FF00000000000000000000111009'   V1 source
00005EDC  00000000 00111009
                                                   8671
                                                   8672 *-----------------------------------------------------------------
                                                   8673 *  Sign-Test Control: STC=6
                                                   8674 *-----------------------------------------------------------------
                                                   8675 * BTP=0, STC=6, DC=0                  sign: C, D, F valid, no digits
                                                   8676          VRR_G VTPX,X'80C0',1
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005EE8                                           8677+         DS    0FD
00005EE8                      00005EE8             8678+         USING *,R5              base for test data and test routine
00005EE8  00005F04                                 8679+T277     DC    A(X277)           address of test routine
00005EEC  0115                                     8680+         DC    H'277'            test number
00005EEE  00                                       8681+         DC    XL1'00'
00005EEF  01                                       8682+         DC    HL1'1'            cc
00005EF0  0B                                       8683+         DC    HL1'11'           cc failed mask
00005EF1  E5E3D7E7 40404040                        8684+         DC    CL8'VTPX'         instruction name
00005EFC  00000010                                 8685+         DC    A(16)             result length
00005F00  00005F1C                                 8686+REA277   DC    A(RE277)          result address
                                                   8687+*                                  INSTRUCTION UNDER TEST ROUTINE
00005F04                                           8688+X277     DS    0F
00005F04  E710 5034 0006                00005F1C   8689+         VL    V1,RE277          get V1 source

00005F0A                                           8692+         DS    0H                      E65F VTP - Vector Test Decimal
00005F0A  E6                                       8693+         DC    X'E6'
00005F0B  01                                       8694+         DC    X'01'                   v1
00005F0C  080C00                                   8695+         DC    HL3'527360'             0, I3, RXB
00005F0F  5F                                       8696+         DC    X'5F'

00005F10  B98D 0020                                8698+         EPSW  R2,R0             exptract psw
00005F14  5020 8E9C                     0000109C   8699+         ST    R2,CCPSW              to save CC
00005F18  07FB                                     8700+         BR    R11               return
00005F1C                                           8701+RE277    DC    0F
00005F1C                                           8702+         DROP  R5
00005F1C  0FF00000 00000000                        8703          DC    XL16'0FF00000000000000000000000000000A'   V1 source
00005F24  00000000 0000000A
                                                   8704
                                                   8705          VRR_G VTPX,X'80C0',1
00005F30                                           8706+         DS    0FD
00005F30                      00005F30             8707+         USING *,R5              base for test data and test routine
00005F30  00005F4C                                 8708+T278     DC    A(X278)           address of test routine
00005F34  0116                                     8709+         DC    H'278'            test number
00005F36  00                                       8710+         DC    XL1'00'
00005F37  01                                       8711+         DC    HL1'1'            cc
00005F38  0B                                       8712+         DC    HL1'11'           cc failed mask
00005F39  E5E3D7E7 40404040                        8713+         DC    CL8'VTPX'         instruction name
00005F44  00000010                                 8714+         DC    A(16)             result length
00005F48  00005F64                                 8715+REA278   DC    A(RE278)          result address
                                                   8716+*                                  INSTRUCTION UNDER TEST ROUTINE
00005F4C                                           8717+X278     DS    0F
00005F4C  E710 5034 0006                00005F64   8718+         VL    V1,RE278          get V1 source

00005F52                                           8721+         DS    0H                      E65F VTP - Vector Test Decimal
00005F52  E6                                       8722+         DC    X'E6'
00005F53  01                                       8723+         DC    X'01'                   v1
00005F54  080C00                                   8724+         DC    HL3'527360'             0, I3, RXB
00005F57  5F                                       8725+         DC    X'5F'

00005F58  B98D 0020                                8727+         EPSW  R2,R0             exptract psw
00005F5C  5020 8E9C                     0000109C   8728+         ST    R2,CCPSW              to save CC
00005F60  07FB                                     8729+         BR    R11               return
00005F64                                           8730+RE278    DC    0F
00005F64                                           8731+         DROP  R5
00005F64  0FF00000 00000000                        8732          DC    XL16'0FF00000000000000000000000000000B'   V1 source
00005F6C  00000000 0000000B
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   8733
                                                   8734          VRR_G VTPX,X'80C0',0
00005F78                                           8735+         DS    0FD
00005F78                     00005F78              8736+         USING *,R5              base for test data and test routine
00005F78  00005F94                                 8737+T279     DC    A(X279)           address of test routine
00005F7C  0117                                     8738+         DC    H'279'            test number
00005F7E  00                                       8739+         DC    XL1'00'
00005F7F  00                                       8740+         DC    HL1'0'            cc
00005F80  07                                       8741+         DC    HL1'7'            cc failed mask
00005F81  E5E3D7E7 40404040                        8742+         DC    CL8'VTPX'         instruction name
00005F8C  00000010                                 8743+         DC    A(16)             result length
00005F90  00005FAC                                 8744+REA279   DC    A(RE279)          result address
                                                   8745+*                                  INSTRUCTION UNDER TEST ROUTINE
00005F94                                           8746+X279     DS    0F
00005F94  E710 5034 0006               00005FAC    8747+         VL    V1,RE279          get V1 source

00005F9A                                           8750+         DS    0H                      E65F VTP - Vector Test Decimal
00005F9A  E6                                       8751+         DC    X'E6'
00005F9B  01                                       8752+         DC    X'01'                   v1
00005F9C  080C00                                   8753+         DC    HL3'527360'             0, I3, RXB
00005F9F  5F                                       8754+         DC    X'5F'

00005FA0  B98D 0020                                8756+         EPSW  R2,R0             exptract psw
00005FA4  5020 8E9C                    0000109C    8757+         ST    R2,CCPSW              to save CC
00005FA8  07FB                                     8758+         BR    R11               return
00005FAC                                           8759+RE279    DC    0F
00005FAC                                           8760+         DROP  R5
00005FAC  0FF00000 00000000                        8761          DC    XL16'0FF0000000000000000000000000000C'   V1 source
00005FB4  00000000 0000000C

                                                   8762
                                                   8763          VRR_G VTPX,X'80C0',0
00005FC0                                           8764+         DS    0FD
00005FC0                     00005FC0              8765+         USING *,R5              base for test data and test routine
00005FC0  00005FDC                                 8766+T280     DC    A(X280)           address of test routine
00005FC4  0118                                     8767+         DC    H'280'            test number
00005FC6  00                                       8768+         DC    XL1'00'
00005FC7  00                                       8769+         DC    HL1'0'            cc
00005FC8  07                                       8770+         DC    HL1'7'            cc failed mask
00005FC9  E5E3D7E7 40404040                        8771+         DC    CL8'VTPX'         instruction name
00005FD4  00000010                                 8772+         DC    A(16)             result length
00005FD8  00005FF4                                 8773+REA280   DC    A(RE280)          result address
                                                   8774+*                                  INSTRUCTION UNDER TEST ROUTINE
00005FDC                                           8775+X280     DS    0F
00005FDC  E710 5034 0006               00005FF4    8776+         VL    V1,RE280          get V1 source

00005FE2                                           8779+         DS    0H                      E65F VTP - Vector Test Decimal
00005FE2  E6                                       8780+         DC    X'E6'
00005FE3  01                                       8781+         DC    X'01'                   v1
00005FE4  080C00                                   8782+         DC    HL3'527360'             0, I3, RXB
00005FE7  5F                                       8783+         DC    X'5F'

00005FE8  B98D 0020                                8785+         EPSW  R2,R0             exptract psw
00005FEC  5020 8E9C                    0000109C    8786+         ST    R2,CCPSW              to save CC
00005FF0  07FB                                     8787+         BR    R11               return
00005FF4                                           8788+RE280    DC    0F
00005FF4                                           8789+         DROP  R5
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005FF4  0FF00000 00000000                        8790          DC    XL16'0FF00000000000000000000000000D'   V1 source
00005FFC  00000000 0000000D
                                                   8791
                                                   8792          VRR_G VTPX,X'80C0',1
00006008                                           8793+         DS    0FD
00006008                        00006008           8794+         USING *,R5               base for test data and test routine
00006008  00006024                                 8795+T281     DC    A(X281)            address of test routine
0000600C  0119                                     8796+         DC    H'281'             test number
0000600E  00                                       8797+         DC    XL1'00'
0000600F  01                                       8798+         DC    HL1'1'             cc
00006010  0B                                       8799+         DC    HL1'11'            cc failed mask
00006011  E5E3D7E7 40404040                        8800+         DC    CL8'VTPX'          instruction name
0000601C  00000010                                 8801+         DC    A(16)              result length
00006020  0000603C                                 8802+REA281   DC    A(RE281)           result address
                                                   8803+*                                   INSTRUCTION UNDER TEST ROUTINE
00006024                                           8804+X281     DS    0F
00006024  E710 5034 0006                0000603C   8805+         VL    V1,RE281           get V1 source

0000602A                                           8808+         DS    0H                       E65F VTP - Vector Test Decimal
0000602A  E6                                       8809+         DC    X'E6'
0000602B  01                                       8810+         DC    X'01'                    v1
0000602C  080C00                                   8811+         DC    HL3'527360'              0, I3, RXB
0000602F  5F                                       8812+         DC    X'5F'

00006030  B98D 0020                                8814+         EPSW  R2,R0              exptract psw
00006034  5020 8E9C                     0000109C   8815+         ST    R2,CCPSW               to save CC
00006038  07FB                                     8816+         BR    R11                return
0000603C                                           8817+RE281    DC    0F
0000603C                                           8818+         DROP  R5
0000603C  0FF00000 00000000                        8819          DC    XL16'0FF00000000000000000000000000E'   V1 source
00006044  00000000 0000000E
                                                   8820
                                                   8821          VRR_G VTPX,X'80C0',0
00006050                                           8822+         DS    0FD
00006050                        00006050           8823+         USING *,R5               base for test data and test routine
00006050  0000606C                                 8824+T282     DC    A(X282)            address of test routine
00006054  011A                                     8825+         DC    H'282'             test number
00006056  00                                       8826+         DC    XL1'00'
00006057  00                                       8827+         DC    HL1'0'             cc
00006058  07                                       8828+         DC    HL1'7'             cc failed mask
00006059  E5E3D7E7 40404040                        8829+         DC    CL8'VTPX'          instruction name
00006064  00000010                                 8830+         DC    A(16)              result length
00006068  00006084                                 8831+REA282   DC    A(RE282)           result address
                                                   8832+*                                   INSTRUCTION UNDER TEST ROUTINE
0000606C                                           8833+X282     DS    0F
0000606C  E710 5034 0006                00006084   8834+         VL    V1,RE282           get V1 source

00006072                                           8837+         DS    0H                       E65F VTP - Vector Test Decimal
00006072  E6                                       8838+         DC    X'E6'
00006073  01                                       8839+         DC    X'01'                    v1
00006074  080C00                                   8840+         DC    HL3'527360'              0, I3, RXB
00006077  5F                                       8841+         DC    X'5F'

00006078  B98D 0020                                8843+         EPSW  R2,R0              exptract psw
0000607C  5020 8E9C                     0000109C   8844+         ST    R2,CCPSW               to save CC
00006080  07FB                                     8845+         BR    R11                return
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006084                                           8846+RE282    DC    0F
00006084                                           8847+         DROP  R5
00006084  0FF00000 00000000                        8848          DC    XL16'0FF00000000000000000000000000000F'   V1 source
0000608C  00000000 0000000F
                                                   8849
                                                   8850          VRR_G VTPX,X'80C0',1
00006098                                           8851+         DS    0FD
00006098                       00006098            8852+         USING *,R5              base for test data and test routine
00006098  000060B4                                 8853+T283     DC    A(X283)           address of test routine
0000609C  011B                                     8854+         DC    H'283'            test number
0000609E  00                                       8855+         DC    XL1'00'
0000609F  01                                       8856+         DC    HL1'1'            cc
000060A0  0B                                       8857+         DC    HL1'11'           cc failed mask
000060A1  E5E3D7E7 40404040                        8858+         DC    CL8'VTPX'         instruction name
000060AC  00000010                                 8859+         DC    A(16)             result length
000060B0  000060CC                                 8860+REA283   DC    A(RE283)          result address
                                                   8861+*                                  INSTRUCTION UNDER TEST ROUTINE
000060B4                                           8862+X283     DS    0F
000060B4  E710 5034 0006                000060CC   8863+         VL    V1,RE283          get V1 source

000060BA                                           8866+         DS    0H                      E65F VTP - Vector Test Decimal
000060BA  E6                                       8867+         DC    X'E6'
000060BB  01                                       8868+         DC    X'01'                   v1
000060BC  080C00                                   8869+         DC    HL3'527360'             0, I3, RXB
000060BF  5F                                       8870+         DC    X'5F'

000060C0  B98D 0020                                8872+         EPSW  R2,R0             exptract psw
000060C4  5020 8E9C                     0000109C   8873+         ST    R2,CCPSW              to save CC
000060C8  07FB                                     8874+         BR    R11               return
000060CC                                           8875+RE283    DC    0F
000060CC                                           8876+         DROP  R5
000060CC  0FF00000 00000000                        8877          DC    XL16'0FF00000000000000000000000000000'   V1 source
000060D4  00000000 00000000
                                                   8878
                                                   8879          VRR_G VTPX,X'80C0',1
000060E0                                           8880+         DS    0FD
000060E0                       000060E0            8881+         USING *,R5              base for test data and test routine
000060E0  000060FC                                 8882+T284     DC    A(X284)           address of test routine
000060E4  011C                                     8883+         DC    H'284'            test number
000060E6  00                                       8884+         DC    XL1'00'
000060E7  01                                       8885+         DC    HL1'1'            cc
000060E8  0B                                       8886+         DC    HL1'11'           cc failed mask
000060E9  E5E3D7E7 40404040                        8887+         DC    CL8'VTPX'         instruction name
000060F4  00000010                                 8888+         DC    A(16)             result length
000060F8  00006114                                 8889+REA284   DC    A(RE284)          result address
                                                   8890+*                                  INSTRUCTION UNDER TEST ROUTINE
000060FC                                           8891+X284     DS    0F
000060FC  E710 5034 0006                00006114   8892+         VL    V1,RE284          get V1 source

00006102                                           8895+         DS    0H                      E65F VTP - Vector Test Decimal
00006102  E6                                       8896+         DC    X'E6'
00006103  01                                       8897+         DC    X'01'                   v1
00006104  080C00                                   8898+         DC    HL3'527360'             0, I3, RXB
00006107  5F                                       8899+         DC    X'5F'

00006108  B98D 0020                                8901+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000610C  5020 8E9C                     0000109C  8902+         ST    R2,CCPSW              to save CC
00006110  07FB                                    8903+         BR    R11                 return
00006114                                          8904+RE284    DC    0F
00006114                                          8905+         DROP  R5
00006114  0FF00000 00000000                       8906          DC    XL16'0FF00000000000000000000000000009'   V1 source
0000611C  00000000 00000009
                                                  8907
                                                  8908 * BTP=0, STC=6, DC>0 and odd
                                                  8909 *                                  sign: C, D, F valid, 0 digits
                                                  8910          VRR_G VTPX,X'80C7',0
00006128                                          8911+         DS    0FD
00006128                        00006128          8912+         USING *,R5                base for test data and test routine
00006128  00006144                                8913+T285     DC    A(X285)             address of test routine
0000612C  011D                                    8914+         DC    H'285'              test number
0000612E  00                                      8915+         DC    XL1'00'
0000612F  00                                      8916+         DC    HL1'0'              cc
00006130  07                                      8917+         DC    HL1'7'              cc failed mask
00006131  E5E3D7E7 40404040                       8918+         DC    CL8'VTPX'           instruction name
0000613C  00000010                                8919+         DC    A(16)               result length
00006140  0000615C                                8920+REA285   DC    A(RE285)            result address
                                                  8921+*                                    INSTRUCTION UNDER TEST ROUTINE
00006144                                          8922+X285     DS    0F
00006144  E710 5034 0006                0000615C  8923+         VL    V1,RE285            get V1 source

0000614A                                          8926+         DS    0H                        E65F VTP - Vector Test Decimal
0000614A  E6                                      8927+         DC    X'E6'
0000614B  01                                      8928+         DC    X'01'                     v1
0000614C  080C70                                  8929+         DC    HL3'527472'               0, I3, RXB
0000614F  5F                                      8930+         DC    X'5F'

00006150  B98D 0020                               8932+         EPSW  R2,R0               exptract psw
00006154  5020 8E9C                     0000109C  8933+         ST    R2,CCPSW              to save CC
00006158  07FB                                    8934+         BR    R11                 return
0000615C                                          8935+RE285    DC    0F
0000615C                                          8936+         DROP  R5
0000615C  0FF00000 00000000                       8937          DC    XL16'0FF00000000000000000000000000C'   V1 source
00006164  00000000 0000000C
                                                  8938
                                                  8939          VRR_G VTPX,X'80CB',0
00006170                                          8940+         DS    0FD
00006170                        00006170          8941+         USING *,R5                base for test data and test routine
00006170  0000618C                                8942+T286     DC    A(X286)             address of test routine
00006174  011E                                    8943+         DC    H'286'              test number
00006176  00                                      8944+         DC    XL1'00'
00006177  00                                      8945+         DC    HL1'0'              cc
00006178  07                                      8946+         DC    HL1'7'              cc failed mask
00006179  E5E3D7E7 40404040                       8947+         DC    CL8'VTPX'           instruction name
00006184  00000010                                8948+         DC    A(16)               result length
00006188  000061A4                                8949+REA286   DC    A(RE286)            result address
                                                  8950+*                                    INSTRUCTION UNDER TEST ROUTINE
0000618C                                          8951+X286     DS    0F
0000618C  E710 5034 0006                000061A4  8952+         VL    V1,RE286            get V1 source

00006192                                          8955+         DS    0H                        E65F VTP - Vector Test Decimal
00006192  E6                                      8956+         DC    X'E6'
00006193  01                                      8957+         DC    X'01'                     v1
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006194  080CB0                                   8958+         DC    HL3'527536'             0, I3, RXB
00006197  5F                                       8959+         DC    X'5F'

00006198  B98D 0020                                8961+         EPSW  R2,R0             exptract psw
0000619C  5020 8E9C                     0000109C   8962+         ST    R2,CCPSW              to save CC
000061A0  07FB                                     8963+         BR    R11               return
000061A4                                           8964+RE286    DC    0F
000061A4                                           8965+         DROP  R5
000061A4  0FF00000 00000000                        8966          DC    XL16'0FF000000000000000000000000000D'   V1 source
000061AC  00000000 0000000D
                                                   8967
                                                   8968          VRR_G VTPX,X'80CB',0
000061B8                                           8969+         DS    0FD
000061B8                        000061B8           8970+         USING *,R5              base for test data and test routine
000061B8  000061D4                                 8971+T287     DC    A(X287)           address of test routine
000061BC  011F                                     8972+         DC    H'287'            test number
000061BE  00                                       8973+         DC    XL1'00'
000061BF  00                                       8974+         DC    HL1'0'            cc
000061C0  07                                       8975+         DC    HL1'7'            cc failed mask
000061C1  E5E3D7E7 40404040                        8976+         DC    CL8'VTPX'         instruction name
000061CC  00000010                                 8977+         DC    A(16)             result length
000061D0  000061EC                                 8978+REA287   DC    A(RE287)          result address
                                                   8979+*                                  INSTRUCTION UNDER TEST ROUTINE
000061D4                                           8980+X287     DS    0F
000061D4  E710 5034 0006                000061EC   8981+         VL    V1,RE287          get V1 source

000061DA                                           8984+         DS    0H                      E65F VTP - Vector Test Decimal
000061DA  E6                                       8985+         DC    X'E6'
000061DB  01                                       8986+         DC    X'01'                   v1
000061DC  080CB0                                   8987+         DC    HL3'527536'             0, I3, RXB
000061DF  5F                                       8988+         DC    X'5F'

000061E0  B98D 0020                                8990+         EPSW  R2,R0             exptract psw
000061E4  5020 8E9C                     0000109C   8991+         ST    R2,CCPSW              to save CC
000061E8  07FB                                     8992+         BR    R11               return
000061EC                                           8993+RE287    DC    0F
000061EC                                           8994+         DROP  R5
000061EC  0FF00000 00000000                        8995          DC    XL16'0FF000000000000000000000000000F'   V1 source
000061F4  00000000 0000000F
                                                   8996
                                                   8997 *                                  sign: C, D, F valid, non-0 digits
                                                   8998          VRR_G VTPX,X'80C5',1
00006200                                           8999+         DS    0FD
00006200                        00006200           9000+         USING *,R5              base for test data and test routine
00006200  0000621C                                 9001+T288     DC    A(X288)           address of test routine
00006204  0120                                     9002+         DC    H'288'            test number
00006206  00                                       9003+         DC    XL1'00'
00006207  01                                       9004+         DC    HL1'1'            cc
00006208  0B                                       9005+         DC    HL1'11'           cc failed mask
00006209  E5E3D7E7 40404040                        9006+         DC    CL8'VTPX'         instruction name
00006214  00000010                                 9007+         DC    A(16)             result length
00006218  00006234                                 9008+REA288   DC    A(RE288)          result address
                                                   9009+*                                  INSTRUCTION UNDER TEST ROUTINE
0000621C                                           9010+X288     DS    0F
0000621C  E710 5034 0006                00006234   9011+         VL    V1,RE288          get V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006222                                           9014+         DS    0H                      E65F VTP - Vector Test Decimal
00006222  E6                                       9015+         DC    X'E6'
00006223  01                                       9016+         DC    X'01'                   v1
00006224  080C50                                   9017+         DC    HL3'527440'             0, I3, RXB
00006227  5F                                       9018+         DC    X'5F'

00006228  B98D 0020                                9020+         EPSW  R2,R0             exptract psw
0000622C  5020 8E9C                     0000109C   9021+         ST    R2,CCPSW              to save CC
00006230  07FB                                     9022+         BR    R11               return
00006234                                           9023+RE288    DC    0F
00006234                                           9024+         DROP  R5
00006234  0FF00000 00000000                        9025          DC    XL16'0FF00000000000000000000000100A'   V1 source
0000623C  00000000 0000100A
                                                   9026
                                                   9027          VRR_G VTPX,X'80C7',1
00006248                                           9028+         DS    0FD
00006248                        00006248           9029+         USING *,R5              base for test data and test routine
00006248  00006264                                 9030+T289     DC    A(X289)           address of test routine
0000624C  0121                                     9031+         DC    H'289'            test number
0000624E  00                                       9032+         DC    XL1'00'
0000624F  01                                       9033+         DC    HL1'1'            cc
00006250  0B                                       9034+         DC    HL1'11'           cc failed mask
00006251  E5E3D7E7 40404040                        9035+         DC    CL8'VTPX'         instruction name
0000625C  00000010                                 9036+         DC    A(16)             result length
00006260  0000627C                                 9037+REA289   DC    A(RE289)          result address
                                                   9038+*                                  INSTRUCTION UNDER TEST ROUTINE
00006264                                           9039+X289     DS    0F
00006264  E710 5034 0006                0000627C   9040+         VL    V1,RE289          get V1 source

0000626A                                           9043+         DS    0H                      E65F VTP - Vector Test Decimal
0000626A  E6                                       9044+         DC    X'E6'
0000626B  01                                       9045+         DC    X'01'                   v1
0000626C  080C70                                   9046+         DC    HL3'527472'             0, I3, RXB
0000626F  5F                                       9047+         DC    X'5F'

00006270  B98D 0020                                9049+         EPSW  R2,R0             exptract psw
00006274  5020 8E9C                     0000109C   9050+         ST    R2,CCPSW              to save CC
00006278  07FB                                     9051+         BR    R11               return
0000627C                                           9052+RE289    DC    0F
0000627C                                           9053+         DROP  R5
0000627C  0FF00000 00000000                        9054          DC    XL16'0FF00000000000000000000000100B'   V1 source
00006284  00000000 0000100B
                                                   9055
                                                   9056          VRR_G VTPX,X'80C9',0
00006290                                           9057+         DS    0FD
00006290                        00006290           9058+         USING *,R5              base for test data and test routine
00006290  000062AC                                 9059+T290     DC    A(X290)           address of test routine
00006294  0122                                     9060+         DC    H'290'            test number
00006296  00                                       9061+         DC    XL1'00'
00006297  00                                       9062+         DC    HL1'0'            cc
00006298  07                                       9063+         DC    HL1'7'            cc failed mask
00006299  E5E3D7E7 40404040                        9064+         DC    CL8'VTPX'         instruction name
000062A4  00000010                                 9065+         DC    A(16)             result length
000062A8  000062C4                                 9066+REA290   DC    A(RE290)          result address
                                                   9067+*                                  INSTRUCTION UNDER TEST ROUTINE
000062AC                                           9068+X290     DS    0F
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000062AC  E710 5034 0006                000062C4  9069+         VL    V1,RE290          get V1 source

000062B2                                          9072+         DS    0H                      E65F VTP - Vector Test Decimal
000062B2  E6                                      9073+         DC    X'E6'
000062B3  01                                      9074+         DC    X'01'                   v1
000062B4  080C90                                  9075+         DC    HL3'527504'             0, I3, RXB
000062B7  5F                                      9076+         DC    X'5F'

000062B8  B98D 0020                               9078+         EPSW  R2,R0             exptract psw
000062BC  5020 8E9C                     0000109C  9079+         ST    R2,CCPSW              to save CC
000062C0  07FB                                    9080+         BR    R11               return
000062C4                                          9081+RE290    DC    0F
000062C4                                          9082+         DROP  R5
000062C4  0FF00000 00000000                       9083          DC    XL16'0FF00000000000000000000000100C'   V1 source
000062CC  00000000 0000100C
                                                  9084
                                                  9085          VRR_G VTPX,X'80CB',0
000062D8                                          9086+         DS    0FD
000062D8                        000062D8          9087+         USING *,R5              base for test data and test routine
000062D8  000062F4                                9088+T291     DC    A(X291)           address of test routine
000062DC  0123                                    9089+         DC    H'291'            test number
000062DE  00                                      9090+         DC    XL1'00'
000062DF  00                                      9091+         DC    HL1'0'            cc
000062E0  07                                      9092+         DC    HL1'7'            cc failed mask
000062E1  E5E3D7E7 40404040                       9093+         DC    CL8'VTPX'         instruction name
000062EC  00000010                                9094+         DC    A(16)             result length
000062F0  0000630C                                9095+REA291   DC    A(RE291)          result address
                                                  9096+*                                  INSTRUCTION UNDER TEST ROUTINE
000062F4                                          9097+X291     DS    0F
000062F4  E710 5034 0006                0000630C  9098+         VL    V1,RE291          get V1 source

000062FA                                          9101+         DS    0H                      E65F VTP - Vector Test Decimal
000062FA  E6                                      9102+         DC    X'E6'
000062FB  01                                      9103+         DC    X'01'                   v1
000062FC  080CB0                                  9104+         DC    HL3'527536'             0, I3, RXB
000062FF  5F                                      9105+         DC    X'5F'

00006300  B98D 0020                               9107+         EPSW  R2,R0             exptract psw
00006304  5020 8E9C                     0000109C  9108+         ST    R2,CCPSW              to save CC
00006308  07FB                                    9109+         BR    R11               return
0000630C                                          9110+RE291    DC    0F
0000630C                                          9111+         DROP  R5
0000630C  0FF00000 00000000                       9112          DC    XL16'0FF00000000000000000000000100D'   V1 source
00006314  00000000 0000100D
                                                  9113
                                                  9114          VRR_G VTPX,X'80CD',1
00006320                                          9115+         DS    0FD
00006320                        00006320          9116+         USING *,R5              base for test data and test routine
00006320  0000633C                                9117+T292     DC    A(X292)           address of test routine
00006324  0124                                    9118+         DC    H'292'            test number
00006326  00                                      9119+         DC    XL1'00'
00006327  01                                      9120+         DC    HL1'1'            cc
00006328  0B                                      9121+         DC    HL1'11'           cc failed mask
00006329  E5E3D7E7 40404040                       9122+         DC    CL8'VTPX'         instruction name
00006334  00000010                                9123+         DC    A(16)             result length
00006338  00006354                                9124+REA292   DC    A(RE292)          result address
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   9125+*                                INSTRUCTION UNDER TEST ROUTINE
0000633C                                           9126+X292     DS    0F
0000633C  E710 5034 0006                00006354   9127+         VL    V1,RE292          get V1 source

00006342                                           9130+         DS    0H                      E65F VTP - Vector Test Decimal
00006342  E6                                       9131+         DC    X'E6'
00006343  01                                       9132+         DC    X'01'                   v1
00006344  080CD0                                   9133+         DC    HL3'527568'             0, I3, RXB
00006347  5F                                       9134+         DC    X'5F'

00006348  B98D 0020                                9136+         EPSW  R2,R0             exptract psw
0000634C  5020 8E9C                     0000109C   9137+         ST    R2,CCPSW              to save CC
00006350  07FB                                     9138+         BR    R11               return
00006354                                           9139+RE292    DC    0F
00006354                                           9140+         DROP  R5
00006354  0FF00000 00000000                        9141          DC    XL16'0FF0000000000000000000000000100E'   V1 source
0000635C  00000000 0000100E
                                                   9142
                                                   9143          VRR_G VTPX,X'80CF',0
00006368                                           9144+         DS    0FD
00006368                        00006368           9145+         USING *,R5              base for test data and test routine
00006368  00006384                                 9146+T293     DC    A(X293)           address of test routine
0000636C  0125                                     9147+         DC    H'293'            test number
0000636E  00                                       9148+         DC    XL1'00'
0000636F  00                                       9149+         DC    HL1'0'            cc
00006370  07                                       9150+         DC    HL1'7'            cc failed mask
00006371  E5E3D7E7 40404040                        9151+         DC    CL8'VTPX'         instruction name
0000637C  00000010                                 9152+         DC    A(16)             result length
00006380  0000639C                                 9153+REA293   DC    A(RE293)          result address
                                                   9154+*                                INSTRUCTION UNDER TEST ROUTINE
00006384                                           9155+X293     DS    0F
00006384  E710 5034 0006                0000639C   9156+         VL    V1,RE293          get V1 source

0000638A                                           9159+         DS    0H                      E65F VTP - Vector Test Decimal
0000638A  E6                                       9160+         DC    X'E6'
0000638B  01                                       9161+         DC    X'01'                   v1
0000638C  080CF0                                   9162+         DC    HL3'527600'             0, I3, RXB
0000638F  5F                                       9163+         DC    X'5F'

00006390  B98D 0020                                9165+         EPSW  R2,R0             exptract psw
00006394  5020 8E9C                     0000109C   9166+         ST    R2,CCPSW              to save CC
00006398  07FB                                     9167+         BR    R11               return
0000639C                                           9168+RE293    DC    0F
0000639C                                           9169+         DROP  R5
0000639C  0FF00000 00000000                        9170          DC    XL16'0FF0000000000000000000000000100F'   V1 source
000063A4  00000000 0000100F
                                                   9171
                                                   9172          VRR_G VTPX,X'80CF',1
000063B0                                           9173+         DS    0FD
000063B0                        000063B0           9174+         USING *,R5              base for test data and test routine
000063B0  000063CC                                 9175+T294     DC    A(X294)           address of test routine
000063B4  0126                                     9176+         DC    H'294'            test number
000063B6  00                                       9177+         DC    XL1'00'
000063B7  01                                       9178+         DC    HL1'1'            cc
000063B8  0B                                       9179+         DC    HL1'11'           cc failed mask
000063B9  E5E3D7E7 40404040                        9180+         DC    CL8'VTPX'         instruction name
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000063C4  00000010                                 9181+         DC    A(16)              result length
000063C8  000063E4                                 9182+REA294   DC    A(RE294)           result address
                                                   9183+*                                   INSTRUCTION UNDER TEST ROUTINE
000063CC                                           9184+X294     DS    0F
000063CC  E710 5034 0006                000063E4   9185+         VL    V1,RE294           get V1 source

000063D2                                           9188+         DS    0H                       E65F VTP - Vector Test Decimal
000063D2  E6                                       9189+         DC    X'E6'
000063D3  01                                       9190+         DC    X'01'                    v1
000063D4  080CF0                                   9191+         DC    HL3'527600'              0, I3, RXB
000063D7  5F                                       9192+         DC    X'5F'

000063D8  B98D 0020                                9194+         EPSW  R2,R0              exptract psw
000063DC  5020 8E9C                     0000109C   9195+         ST    R2,CCPSW               to save CC
000063E0  07FB                                     9196+         BR    R11                return
000063E4                                           9197+RE294    DC    0F
000063E4                                           9198+         DROP  R5
000063E4  0FF00000 00000000                        9199          DC    XL16'0FF00000000000000000000000001000'   V1 source
000063EC  00000000 00001000
                                                   9200
                                                   9201          VRR_G VTPX,X'80CF',2
000063F8                                           9202+         DS    0FD
000063F8                        000063F8           9203+         USING *,R5               base for test data and test routine
000063F8  00006414                                 9204+T295     DC    A(X295)            address of test routine
000063FC  0127                                     9205+         DC    H'295'             test number
000063FE  00                                       9206+         DC    XL1'00'
000063FF  02                                       9207+         DC    HL1'2'             cc
00006400  0D                                       9208+         DC    HL1'13'            cc failed mask
00006401  E5E3D7E7 40404040                        9209+         DC    CL8'VTPX'          instruction name
0000640C  00000010                                 9210+         DC    A(16)              result length
00006410  0000642C                                 9211+REA295   DC    A(RE295)           result address
                                                   9212+*                                   INSTRUCTION UNDER TEST ROUTINE
00006414                                           9213+X295     DS    0F
00006414  E710 5034 0006                0000642C   9214+         VL    V1,RE295           get V1 source

0000641A                                           9217+         DS    0H                       E65F VTP - Vector Test Decimal
0000641A  E6                                       9218+         DC    X'E6'
0000641B  01                                       9219+         DC    X'01'                    v1
0000641C  080CF0                                   9220+         DC    HL3'527600'              0, I3, RXB
0000641F  5F                                       9221+         DC    X'5F'

00006420  B98D 0020                                9223+         EPSW  R2,R0              exptract psw
00006424  5020 8E9C                     0000109C   9224+         ST    R2,CCPSW               to save CC
00006428  07FB                                     9225+         BR    R11                return
0000642C                                           9226+RE295    DC    0F
0000642C                                           9227+         DROP  R5
0000642C  0FF00000 00000000                        9228          DC    XL16'0FF00000000000000000000000F00F'   V1 source
00006434  00000000 0000F00F
                                                   9229
                                                   9230          VRR_G VTPX,X'80CF',3
00006440                                           9231+         DS    0FD
00006440                        00006440           9232+         USING *,R5               base for test data and test routine
00006440  0000645C                                 9233+T296     DC    A(X296)            address of test routine
00006444  0128                                     9234+         DC    H'296'             test number
00006446  00                                       9235+         DC    XL1'00'
00006447  03                                       9236+         DC    HL1'3'             cc
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006448  0E                                       9237+         DC    HL1'14'           cc failed mask
00006449  E5E3D7E7 40404040                        9238+         DC    CL8'VTPX'         instruction name
00006454  00000010                                 9239+         DC    A(16)             result length
00006458  00006474                                 9240+REA296   DC    A(RE296)          result address
                                                   9241+*                                  INSTRUCTION UNDER TEST ROUTINE
0000645C                                           9242+X296     DS    0F
0000645C  E710 5034 0006                00006474   9243+         VL    V1,RE296          get V1 source

00006462                                           9246+         DS    0H                      E65F VTP - Vector Test Decimal
00006462  E6                                       9247+         DC    X'E6'
00006463  01                                       9248+         DC    X'01'                   v1
00006464  080CF0                                   9249+         DC    HL3'527600'             0, I3, RXB
00006467  5F                                       9250+         DC    X'5F'

00006468  B98D 0020                                9252+         EPSW  R2,R0             exptract psw
0000646C  5020 8E9C                     0000109C   9253+         ST    R2,CCPSW              to save CC
00006470  07FB                                     9254+         BR    R11               return
00006474                                           9255+RE296    DC    0F
00006474                                           9256+         DROP  R5
00006474  0FF00000 00000000                        9257          DC    XL16'0FF000000000000000000000000F009'   V1 source
0000647C  00000000 0000F009
                                                   9258
                                                   9259 * BTP=0, STC=6, DC>0 and even
                                                   9260 *                                  sign: C, D, F valid, 0 digits
                                                   9261          VRR_G VTPX,X'80C6',1
00006488                                           9262+         DS    0FD
00006488                        00006488           9263+         USING *,R5              base for test data and test routine
00006488  000064A4                                 9264+T297     DC    A(X297)           address of test routine
0000648C  0129                                     9265+         DC    H'297'            test number
0000648E  00                                       9266+         DC    XL1'00'
0000648F  01                                       9267+         DC    HL1'1'            cc
00006490  0B                                       9268+         DC    HL1'11'           cc failed mask
00006491  E5E3D7E7 40404040                        9269+         DC    CL8'VTPX'         instruction name
0000649C  00000010                                 9270+         DC    A(16)             result length
000064A0  000064BC                                 9271+REA297   DC    A(RE297)          result address
                                                   9272+*                                  INSTRUCTION UNDER TEST ROUTINE
000064A4                                           9273+X297     DS    0F
000064A4  E710 5034 0006                000064BC   9274+         VL    V1,RE297          get V1 source

000064AA                                           9277+         DS    0H                      E65F VTP - Vector Test Decimal
000064AA  E6                                       9278+         DC    X'E6'
000064AB  01                                       9279+         DC    X'01'                   v1
000064AC  080C60                                   9280+         DC    HL3'527456'             0, I3, RXB
000064AF  5F                                       9281+         DC    X'5F'

000064B0  B98D 0020                                9283+         EPSW  R2,R0             exptract psw
000064B4  5020 8E9C                     0000109C   9284+         ST    R2,CCPSW              to save CC
000064B8  07FB                                     9285+         BR    R11               return
000064BC                                           9286+RE297    DC    0F
000064BC                                           9287+         DROP  R5
000064BC  0FF00000 00000000                        9288          DC    XL16'0FF000000000000000000000000B'   V1 source
000064C4  00000000 0000000B
                                                   9289
                                                   9290          VRR_G VTPX,X'80CA',0
000064D0                                           9291+         DS    0FD
000064D0                        000064D0           9292+         USING *,R5              base for test data and test routine
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000064D0  000064EC                                 9293+T298     DC    A(X298)           address of test routine
000064D4  012A                                     9294+         DC    H'298'            test number
000064D6  00                                       9295+         DC    XL1'00'
000064D7  00                                       9296+         DC    HL1'0'            cc
000064D8  07                                       9297+         DC    HL1'7'            cc failed mask
000064D9  E5E3D7E7 40404040                        9298+         DC    CL8'VTPX'         instruction name
000064E4  00000010                                 9299+         DC    A(16)             result length
000064E8  00006504                                 9300+REA298   DC    A(RE298)          result address
                                                   9301+*                                  INSTRUCTION UNDER TEST ROUTINE
000064EC                                           9302+X298     DS    0F
000064EC  E710 5034 0006                00006504   9303+         VL    V1,RE298          get V1 source

000064F2                                           9306+         DS    0H                      E65F VTP - Vector Test Decimal
000064F2  E6                                       9307+         DC    X'E6'
000064F3  01                                       9308+         DC    X'01'                   v1
000064F4  080CA0                                   9309+         DC    HL3'527520'             0, I3, RXB
000064F7  5F                                       9310+         DC    X'5F'

000064F8  B98D 0020                                9312+         EPSW  R2,R0             exptract psw
000064FC  5020 8E9C                     0000109C   9313+         ST    R2,CCPSW              to save CC
00006500  07FB                                     9314+         BR    R11               return
00006504                                           9315+RE298    DC    0F
00006504                                           9316+         DROP  R5
00006504  0FF00000 00000000                        9317          DC    XL16'0FF00000000000000000000000000000C'   V1 source
0000650C  00000000 0000000C
                                                   9318
                                                   9319          VRR_G VTPX,X'80CA',0
00006518                                           9320+         DS    0FD
00006518                        00006518           9321+         USING *,R5              base for test data and test routine
00006518  00006534                                 9322+T299     DC    A(X299)           address of test routine
0000651C  012B                                     9323+         DC    H'299'            test number
0000651E  00                                       9324+         DC    XL1'00'
0000651F  00                                       9325+         DC    HL1'0'            cc
00006520  07                                       9326+         DC    HL1'7'            cc failed mask
00006521  E5E3D7E7 40404040                        9327+         DC    CL8'VTPX'         instruction name
0000652C  00000010                                 9328+         DC    A(16)             result length
00006530  0000654C                                 9329+REA299   DC    A(RE299)          result address
                                                   9330+*                                  INSTRUCTION UNDER TEST ROUTINE
00006534                                           9331+X299     DS    0F
00006534  E710 5034 0006                0000654C   9332+         VL    V1,RE299          get V1 source

0000653A                                           9335+         DS    0H                      E65F VTP - Vector Test Decimal
0000653A  E6                                       9336+         DC    X'E6'
0000653B  01                                       9337+         DC    X'01'                   v1
0000653C  080CA0                                   9338+         DC    HL3'527520'             0, I3, RXB
0000653F  5F                                       9339+         DC    X'5F'

00006540  B98D 0020                                9341+         EPSW  R2,R0             exptract psw
00006544  5020 8E9C                     0000109C   9342+         ST    R2,CCPSW              to save CC
00006548  07FB                                     9343+         BR    R11               return
0000654C                                           9344+RE299    DC    0F
0000654C                                           9345+         DROP  R5
0000654C  0FF00000 00000000                        9346          DC    XL16'0FF00000000000000000000000000000D'   V1 source
00006554  00000000 0000000D
                                                   9347
                                                   9348          VRR_G VTPX,X'80CA',0
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006560                                           9349+         DS    0FD
00006560                     00006560              9350+         USING *,R5              base for test data and test routine
00006560  0000657C                                 9351+T300     DC    A(X300)           address of test routine
00006564  012C                                     9352+         DC    H'300'            test number
00006566  00                                       9353+         DC    XL1'00'
00006567  00                                       9354+         DC    HL1'0'            cc
00006568  07                                       9355+         DC    HL1'7'            cc failed mask
00006569  E5E3D7E7 40404040                        9356+         DC    CL8'VTPX'         instruction name
00006574  00000010                                 9357+         DC    A(16)             result length
00006578  00006594                                 9358+REA300   DC    A(RE300)          result address
                                                   9359+*                                  INSTRUCTION UNDER TEST ROUTINE
0000657C                                           9360+X300     DS    0F
0000657C  E710 5034 0006               00006594    9361+         VL    V1,RE300          get V1 source

00006582                                           9364+         DS    0H                      E65F VTP - Vector Test Decimal
00006582  E6                                       9365+         DC    X'E6'
00006583  01                                       9366+         DC    X'01'                   v1
00006584  080CA0                                   9367+         DC    HL3'527520'             0, I3, RXB
00006587  5F                                       9368+         DC    X'5F'

00006588  B98D 0020                                9370+         EPSW  R2,R0             exptract psw
0000658C  5020 8E9C                    0000109C    9371+         ST    R2,CCPSW              to save CC
00006590  07FB                                     9372+         BR    R11               return
00006594                                           9373+RE300    DC    0F
00006594                                           9374+         DROP  R5
00006594  0FF00000 00000000                        9375          DC    XL16'0FF00000000000000000000000000000F'   V1 source
0000659C  00000000 0000000F
                                                   9376
                                                   9377 *                                  sign: C, D, F valid, non-0 digits
                                                   9378          VRR_G VTPX,X'80C4',1
000065A8                                           9379+         DS    0FD
000065A8                     000065A8              9380+         USING *,R5              base for test data and test routine
000065A8  000065C4                                 9381+T301     DC    A(X301)           address of test routine
000065AC  012D                                     9382+         DC    H'301'            test number
000065AE  00                                       9383+         DC    XL1'00'
000065AF  01                                       9384+         DC    HL1'1'            cc
000065B0  0B                                       9385+         DC    HL1'11'           cc failed mask
000065B1  E5E3D7E7 40404040                        9386+         DC    CL8'VTPX'         instruction name
000065BC  00000010                                 9387+         DC    A(16)             result length
000065C0  000065DC                                 9388+REA301   DC    A(RE301)          result address
                                                   9389+*                                  INSTRUCTION UNDER TEST ROUTINE
000065C4                                           9390+X301     DS    0F
000065C4  E710 5034 0006               000065DC    9391+         VL    V1,RE301          get V1 source

000065CA                                           9394+         DS    0H                      E65F VTP - Vector Test Decimal
000065CA  E6                                       9395+         DC    X'E6'
000065CB  01                                       9396+         DC    X'01'                   v1
000065CC  080C40                                   9397+         DC    HL3'527424'             0, I3, RXB
000065CF  5F                                       9398+         DC    X'5F'

000065D0  B98D 0020                                9400+         EPSW  R2,R0             exptract psw
000065D4  5020 8E9C                    0000109C    9401+         ST    R2,CCPSW              to save CC
000065D8  07FB                                     9402+         BR    R11               return
000065DC                                           9403+RE301    DC    0F
000065DC                                           9404+         DROP  R5
000065DC  0FF00000 00000000                        9405          DC    XL16'0FF00000000000000000000000100A'   V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000065E4  00000000 0000100A
                                                   9406
                                                   9407          VRR_G VTPX,X'80C6',1
000065F0                                           9408+         DS    0FD
000065F0                       000065F0            9409+         USING *,R5              base for test data and test routine
000065F0  0000660C                                 9410+T302     DC    A(X302)           address of test routine
000065F4  012E                                     9411+         DC    H'302'            test number
000065F6  00                                       9412+         DC    XL1'00'
000065F7  01                                       9413+         DC    HL1'1'            cc
000065F8  0B                                       9414+         DC    HL1'11'           cc failed mask
000065F9  E5E3D7E7 40404040                        9415+         DC    CL8'VTPX'         instruction name
00006604  00000010                                 9416+         DC    A(16)             result length
00006608  00006624                                 9417+REA302   DC    A(RE302)          result address
                                                   9418+*                                  INSTRUCTION UNDER TEST ROUTINE
0000660C                                           9419+X302     DS    0F
0000660C  E710 5034 0006                00006624   9420+         VL    V1,RE302          get V1 source

00006612                                           9423+         DS    0H                      E65F VTP - Vector Test Decimal
00006612  E6                                       9424+         DC    X'E6'
00006613  01                                       9425+         DC    X'01'                   v1
00006614  080C60                                   9426+         DC    HL3'527456'             0, I3, RXB
00006617  5F                                       9427+         DC    X'5F'

00006618  B98D 0020                                9429+         EPSW  R2,R0             exptract psw
0000661C  5020 8E9C                     0000109C   9430+         ST    R2,CCPSW              to save CC
00006620  07FB                                     9431+         BR    R11               return
00006624                                           9432+RE302    DC    0F
00006624                                           9433+         DROP  R5
00006624  0FF00000 00000000                        9434          DC    XL16'0FF00000000000000000000000100B'   V1 source
0000662C  00000000 0000100B
                                                   9435
                                                   9436          VRR_G VTPX,X'80C8',0
00006638                                           9437+         DS    0FD
00006638                       00006638            9438+         USING *,R5              base for test data and test routine
00006638  00006654                                 9439+T303     DC    A(X303)           address of test routine
0000663C  012F                                     9440+         DC    H'303'            test number
0000663E  00                                       9441+         DC    XL1'00'
0000663F  00                                       9442+         DC    HL1'0'            cc
00006640  07                                       9443+         DC    HL1'7'            cc failed mask
00006641  E5E3D7E7 40404040                        9444+         DC    CL8'VTPX'         instruction name
0000664C  00000010                                 9445+         DC    A(16)             result length
00006650  0000666C                                 9446+REA303   DC    A(RE303)          result address
                                                   9447+*                                  INSTRUCTION UNDER TEST ROUTINE
00006654                                           9448+X303     DS    0F
00006654  E710 5034 0006                0000666C   9449+         VL    V1,RE303          get V1 source

0000665A                                           9452+         DS    0H                      E65F VTP - Vector Test Decimal
0000665A  E6                                       9453+         DC    X'E6'
0000665B  01                                       9454+         DC    X'01'                   v1
0000665C  080C80                                   9455+         DC    HL3'527488'             0, I3, RXB
0000665F  5F                                       9456+         DC    X'5F'

00006660  B98D 0020                                9458+         EPSW  R2,R0             exptract psw
00006664  5020 8E9C                     0000109C   9459+         ST    R2,CCPSW              to save CC
00006668  07FB                                     9460+         BR    R11               return
0000666C                                           9461+RE303    DC    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000666C                                           9462+         DROP  R5
0000666C  0FF00000 00000000                        9463          DC    XL16'0FF00000000000000000000000100C'   V1 source
00006674  00000000 0000100C
                                                   9464
                                                   9465          VRR_G VTPX,X'80CA',0
00006680                                           9466+         DS    0FD
00006680                      00006680             9467+         USING *,R5              base for test data and test routine
00006680  0000669C                                 9468+T304     DC    A(X304)           address of test routine
00006684  0130                                     9469+         DC    H'304'            test number
00006686  00                                       9470+         DC    XL1'00'
00006687  00                                       9471+         DC    HL1'0'            cc
00006688  07                                       9472+         DC    HL1'7'            cc failed mask
00006689  E5E3D7E7 40404040                        9473+         DC    CL8'VTPX'         instruction name
00006694  00000010                                 9474+         DC    A(16)             result length
00006698  000066B4                                 9475+REA304   DC    A(RE304)          result address
                                                   9476+*                                  INSTRUCTION UNDER TEST ROUTINE
0000669C                                           9477+X304     DS    0F
0000669C  E710 5034 0006                000066B4   9478+         VL    V1,RE304          get V1 source

000066A2                                           9481+         DS    0H                      E65F VTP - Vector Test Decimal
000066A2  E6                                       9482+         DC    X'E6'
000066A3  01                                       9483+         DC    X'01'                   v1
000066A4  080CA0                                   9484+         DC    HL3'527520'             0, I3, RXB
000066A7  5F                                       9485+         DC    X'5F'

000066A8  B98D 0020                                9487+         EPSW  R2,R0             exptract psw
000066AC  5020 8E9C                     0000109C   9488+         ST    R2,CCPSW                to save CC
000066B0  07FB                                     9489+         BR    R11               return
000066B4                                           9490+RE304    DC    0F
000066B4                                           9491+         DROP  R5
000066B4  0FF00000 00000000                        9492          DC    XL16'0FF00000000000000000000000100D'   V1 source
000066BC  00000000 0000100D
                                                   9493
                                                   9494          VRR_G VTPX,X'80CC',1
000066C8                                           9495+         DS    0FD
000066C8                      000066C8             9496+         USING *,R5              base for test data and test routine
000066C8  000066E4                                 9497+T305     DC    A(X305)           address of test routine
000066CC  0131                                     9498+         DC    H'305'            test number
000066CE  00                                       9499+         DC    XL1'00'
000066CF  01                                       9500+         DC    HL1'1'            cc
000066D0  0B                                       9501+         DC    HL1'11'           cc failed mask
000066D1  E5E3D7E7 40404040                        9502+         DC    CL8'VTPX'         instruction name
000066DC  00000010                                 9503+         DC    A(16)             result length
000066E0  000066FC                                 9504+REA305   DC    A(RE305)          result address
                                                   9505+*                                  INSTRUCTION UNDER TEST ROUTINE
000066E4                                           9506+X305     DS    0F
000066E4  E710 5034 0006                000066FC   9507+         VL    V1,RE305          get V1 source

000066EA                                           9510+         DS    0H                      E65F VTP - Vector Test Decimal
000066EA  E6                                       9511+         DC    X'E6'
000066EB  01                                       9512+         DC    X'01'                   v1
000066EC  080CC0                                   9513+         DC    HL3'527552'             0, I3, RXB
000066EF  5F                                       9514+         DC    X'5F'

000066F0  B98D 0020                                9516+         EPSW  R2,R0             exptract psw
000066F4  5020 8E9C                     0000109C   9517+         ST    R2,CCPSW                to save CC
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000066F8  07FB                                     9518+         BR    R11                 return
000066FC                                           9519+RE305    DC    0F
000066FC                                           9520+         DROP  R5
000066FC  0FF00000 00000000                        9521          DC    XL16'0FF0000000000000000000000000100E'   V1 source
00006704  00000000 0000100E
                                                   9522
                                                   9523          VRR_G VTPX,X'80CE',0
00006710                                           9524+         DS    0FD
00006710                      00006710             9525+         USING *,R5                base for test data and test routine
00006710  0000672C                                 9526+T306     DC    A(X306)             address of test routine
00006714  0132                                     9527+         DC    H'306'              test number
00006716  00                                       9528+         DC    XL1'00'
00006717  00                                       9529+         DC    HL1'0'              cc
00006718  07                                       9530+         DC    HL1'7'              cc failed mask
00006719  E5E3D7E7 40404040                        9531+         DC    CL8'VTPX'           instruction name
00006724  00000010                                 9532+         DC    A(16)               result length
00006728  00006744                                 9533+REA306   DC    A(RE306)            result address
                                                   9534+*                                    INSTRUCTION UNDER TEST ROUTINE
0000672C                                           9535+X306     DS    0F
0000672C  E710 5034 0006                0000674    9536+         VL    V1,RE306            get V1 source

00006732                                           9539+         DS    0H                        E65F VTP - Vector Test Decimal
00006732  E6                                       9540+         DC    X'E6'
00006733  01                                       9541+         DC    X'01'                     v1
00006734  080CE0                                   9542+         DC    HL3'527584'               0, I3, RXB
00006737  5F                                       9543+         DC    X'5F'

00006738  B98D 0020                                9545+         EPSW  R2,R0               exptract psw
0000673C  5020 8E9C                     0000109C   9546+         ST    R2,CCPSW                to save CC
00006740  07FB                                     9547+         BR    R11                 return
00006744                                           9548+RE306    DC    0F
00006744                                           9549+         DROP  R5
00006744  0FF00000 00000000                        9550          DC    XL16'0FF0000000000000000000000000100F'   V1 source
0000674C  00000000 0000100F
                                                   9551
                                                   9552          VRR_G VTPX,X'80CE',1
00006758                                           9553+         DS    0FD
00006758                      00006758             9554+         USING *,R5                base for test data and test routine
00006758  00006774                                 9555+T307     DC    A(X307)             address of test routine
0000675C  0133                                     9556+         DC    H'307'              test number
0000675E  00                                       9557+         DC    XL1'00'
0000675F  01                                       9558+         DC    HL1'1'              cc
00006760  0B                                       9559+         DC    HL1'11'             cc failed mask
00006761  E5E3D7E7 40404040                        9560+         DC    CL8'VTPX'           instruction name
0000676C  00000010                                 9561+         DC    A(16)               result length
00006770  0000678C                                 9562+REA307   DC    A(RE307)            result address
                                                   9563+*                                    INSTRUCTION UNDER TEST ROUTINE
00006774                                           9564+X307     DS    0F
00006774  E710 5034 0006                0000678C   9565+         VL    V1,RE307            get V1 source

0000677A                                           9568+         DS    0H                        E65F VTP - Vector Test Decimal
0000677A  E6                                       9569+         DC    X'E6'
0000677B  01                                       9570+         DC    X'01'                     v1
0000677C  080CE0                                   9571+         DC    HL3'527584'               0, I3, RXB
0000677F  5F                                       9572+         DC    X'5F'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006780  B98D 0020                               9574+         EPSW  R2,R0              exptract psw
00006784  5020 8E9C                     0000109C  9575+         ST    R2,CCPSW              to save CC
00006788  07FB                                    9576+         BR    R11               return
0000678C                                          9577+RE307    DC    0F
0000678C                                          9578+         DROP  R5
0000678C  0FF00000 00000000                       9579          DC    XL16'0FF00000000000000000000000001000'   V1 source
00006794  00000000 00001000
                                                  9580
                                                  9581          VRR_G VTPX,X'80CE',2
000067A0                                          9582+         DS    0FD
000067A0                        000067A0          9583+         USING *,R5              base for test data and test routine
000067A0  000067BC                                9584+T308     DC    A(X308)           address of test routine
000067A4  0134                                    9585+         DC    H'308'            test number
000067A6  00                                      9586+         DC    XL1'00'
000067A7  02                                      9587+         DC    HL1'2'            cc
000067A8  0D                                      9588+         DC    HL1'13'           cc failed mask
000067A9  E5E3D7E7 40404040                       9589+         DC    CL8'VTPX'         instruction name
000067B4  00000010                                9590+         DC    A(16)             result length
000067B8  000067D4                                9591+REA308   DC    A(RE308)          result address
                                                  9592+*                                  INSTRUCTION UNDER TEST ROUTINE
000067BC                                          9593+X308     DS    0F
000067BC  E710 5034 0006                000067D4  9594+         VL    V1,RE308          get V1 source

000067C2                                          9597+         DS    0H                      E65F VTP - Vector Test Decimal
000067C2  E6                                      9598+         DC    X'E6'
000067C3  01                                      9599+         DC    X'01'                   v1
000067C4  080CE0                                  9600+         DC    HL3'527584'             0, I3, RXB
000067C7  5F                                      9601+         DC    X'5F'

000067C8  B98D 0020                               9603+         EPSW  R2,R0              exptract psw
000067CC  5020 8E9C                     0000109C  9604+         ST    R2,CCPSW              to save CC
000067D0  07FB                                    9605+         BR    R11               return
000067D4                                          9606+RE308    DC    0F
000067D4                                          9607+         DROP  R5
000067D4  0FF00000 00000000                       9608          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000067DC  00000000 0000F00F
                                                  9609
                                                  9610          VRR_G VTPX,X'80CE',3
000067E8                                          9611+         DS    0FD
000067E8                        000067E8          9612+         USING *,R5              base for test data and test routine
000067E8  00006804                                9613+T309     DC    A(X309)           address of test routine
000067EC  0135                                    9614+         DC    H'309'            test number
000067EE  00                                      9615+         DC    XL1'00'
000067EF  03                                      9616+         DC    HL1'3'            cc
000067F0  0E                                      9617+         DC    HL1'14'           cc failed mask
000067F1  E5E3D7E7 40404040                       9618+         DC    CL8'VTPX'         instruction name
000067FC  00000010                                9619+         DC    A(16)             result length
00006800  0000681C                                9620+REA309   DC    A(RE309)          result address
                                                  9621+*                                  INSTRUCTION UNDER TEST ROUTINE
00006804                                          9622+X309     DS    0F
00006804  E710 5034 0006                0000681C  9623+         VL    V1,RE309          get V1 source

0000680A                                          9626+         DS    0H                      E65F VTP - Vector Test Decimal
0000680A  E6                                      9627+         DC    X'E6'
0000680B  01                                      9628+         DC    X'01'                   v1
0000680C  080CE0                                  9629+         DC    HL3'527584'             0, I3, RXB
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000680F  5F                                      9630+         DC    X'5F'

00006810  B98D 0020                               9632+         EPSW  R2,R0             exptract psw
00006814  5020 8E9C                     0000109C  9633+         ST    R2,CCPSW              to save CC
00006818  07FB                                    9634+         BR    R11               return
0000681C                                          9635+RE309    DC    0F
0000681C                                          9636+         DROP  R5
0000681C  0FF00000 00000000                       9637          DC    XL16'0FF00000000000000000000000F009'   V1 source
00006824  00000000 0000F009
                                                  9638
                                                  9639 * BTP=1, STC=6, DC>0 and even
                                                  9640 *                                  sign: C, D, F valid, 0 digits
                                                  9641          VRR_G VTPX,X'C0C6',1
00006830                                          9642+         DS    0FD
00006830                        00006830          9643+         USING *,R5              base for test data and test routine
00006830  0000684C                                9644+T310     DC    A(X310)           address of test routine
00006834  0136                                    9645+         DC    H'310'            test number
00006836  00                                      9646+         DC    XL1'00'
00006837  01                                      9647+         DC    HL1'1'            cc
00006838  0B                                      9648+         DC    HL1'11'           cc failed mask
00006839  E5E3D7E7 40404040                       9649+         DC    CL8'VTPX'         instruction name
00006844  00000010                                9650+         DC    A(16)             result length
00006848  00006864                                9651+REA310   DC    A(RE310)          result address
                                                  9652+*                                  INSTRUCTION UNDER TEST ROUTINE
0000684C                                          9653+X310     DS    0F
0000684C  E710 5034 0006                00006864  9654+         VL    V1,RE310          get V1 source

00006852                                          9657+         DS    0H                      E65F VTP - Vector Test Decimal
00006852  E6                                      9658+         DC    X'E6'
00006853  01                                      9659+         DC    X'01'                   v1
00006854  0C0C60                                  9660+         DC    HL3'789600'             0, I3, RXB
00006857  5F                                      9661+         DC    X'5F'

00006858  B98D 0020                               9663+         EPSW  R2,R0             exptract psw
0000685C  5020 8E9C                     0000109C  9664+         ST    R2,CCPSW              to save CC
00006860  07FB                                    9665+         BR    R11               return
00006864                                          9666+RE310    DC    0F
00006864                                          9667+         DROP  R5
00006864  0FF00000 00000000                       9668          DC    XL16'0FF00000000000000000000000000B'   V1 source
0000686C  00000000 0000000B
                                                  9669
                                                  9670          VRR_G VTPX,X'C0CA',0
00006878                                          9671+         DS    0FD
00006878                        00006878          9672+         USING *,R5              base for test data and test routine
00006878  00006894                                9673+T311     DC    A(X311)           address of test routine
0000687C  0137                                    9674+         DC    H'311'            test number
0000687E  00                                      9675+         DC    XL1'00'
0000687F  00                                      9676+         DC    HL1'0'            cc
00006880  07                                      9677+         DC    HL1'7'            cc failed mask
00006881  E5E3D7E7 40404040                       9678+         DC    CL8'VTPX'         instruction name
0000688C  00000010                                9679+         DC    A(16)             result length
00006890  000068AC                                9680+REA311   DC    A(RE311)          result address
                                                  9681+*                                  INSTRUCTION UNDER TEST ROUTINE
00006894                                          9682+X311     DS    0F
00006894  E710 5034 0006                000068AC  9683+         VL    V1,RE311          get V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000689A                                           9686+         DS    0H                      E65F VTP - Vector Test Decimal
0000689A  E6                                       9687+         DC    X'E6'
0000689B  01                                       9688+         DC    X'01'                   v1
0000689C  0C0CA0                                   9689+         DC    HL3'789664'             0, I3, RXB
0000689F  5F                                       9690+         DC    X'5F'

000068A0  B98D 0020                                9692+         EPSW  R2,R0             exptract psw
000068A4  5020 8E9C                     0000109C   9693+         ST    R2,CCPSW              to save CC
000068A8  07FB                                     9694+         BR    R11               return
000068AC                                           9695+RE311    DC    0F
000068AC                                           9696+         DROP  R5
000068AC  0FF00000 00000000                        9697          DC    XL16'0FF00000000000000000000000000C'   V1 source
000068B4  00000000 0000000C
                                                   9698
                                                   9699          VRR_G VTPX,X'C0CA',0
000068C0                                           9700+         DS    0FD
000068C0                        000068C0           9701+         USING *,R5              base for test data and test routine
000068C0  000068DC                                 9702+T312     DC    A(X312)           address of test routine
000068C4  0138                                     9703+         DC    H'312'            test number
000068C6  00                                       9704+         DC    XL1'00'
000068C7  00                                       9705+         DC    HL1'0'            cc
000068C8  07                                       9706+         DC    HL1'7'            cc failed mask
000068C9  E5E3D7E7 40404040                        9707+         DC    CL8'VTPX'         instruction name
000068D4  00000010                                 9708+         DC    A(16)             result length
000068D8  000068F4                                 9709+REA312   DC    A(RE312)          result address
                                                   9710+*                                  INSTRUCTION UNDER TEST ROUTINE
000068DC                                           9711+X312     DS    0F
000068DC  E710 5034 0006                000068F4   9712+         VL    V1,RE312          get V1 source

000068E2                                           9715+         DS    0H                      E65F VTP - Vector Test Decimal
000068E2  E6                                       9716+         DC    X'E6'
000068E3  01                                       9717+         DC    X'01'                   v1
000068E4  0C0CA0                                   9718+         DC    HL3'789664'             0, I3, RXB
000068E7  5F                                       9719+         DC    X'5F'

000068E8  B98D 0020                                9721+         EPSW  R2,R0             exptract psw
000068EC  5020 8E9C                     0000109C   9722+         ST    R2,CCPSW              to save CC
000068F0  07FB                                     9723+         BR    R11               return
000068F4                                           9724+RE312    DC    0F
000068F4                                           9725+         DROP  R5
000068F4  0FF00000 00000000                        9726          DC    XL16'0FF00000000000000000000000000D'   V1 source
000068FC  00000000 0000000D
                                                   9727
                                                   9728          VRR_G VTPX,X'C0CA',0
00006908                                           9729+         DS    0FD
00006908                        00006908           9730+         USING *,R5              base for test data and test routine
00006908  00006924                                 9731+T313     DC    A(X313)           address of test routine
0000690C  0139                                     9732+         DC    H'313'            test number
0000690E  00                                       9733+         DC    XL1'00'
0000690F  00                                       9734+         DC    HL1'0'            cc
00006910  07                                       9735+         DC    HL1'7'            cc failed mask
00006911  E5E3D7E7 40404040                        9736+         DC    CL8'VTPX'         instruction name
0000691C  00000010                                 9737+         DC    A(16)             result length
00006920  0000693C                                 9738+REA313   DC    A(RE313)          result address
                                                   9739+*                                  INSTRUCTION UNDER TEST ROUTINE
00006924                                           9740+X313     DS    0F
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006924  E710 5034 0006                0000693C   9741+         VL    V1,RE313          get V1 source

0000692A                                           9744+         DS    0H                      E65F VTP - Vector Test Decimal
0000692A  E6                                       9745+         DC    X'E6'
0000692B  01                                       9746+         DC    X'01'                   v1
0000692C  0C0CA0                                   9747+         DC    HL3'789664'             0, I3, RXB
0000692F  5F                                       9748+         DC    X'5F'

00006930  B98D 0020                                9750+         EPSW  R2,R0             exptract psw
00006934  5020 8E9C                     0000109C   9751+         ST    R2,CCPSW              to save CC
00006938  07FB                                     9752+         BR    R11               return
0000693C                                           9753+RE313    DC    0F
0000693C                                           9754+         DROP  R5
0000693C  0FF00000 00000000                        9755          DC    XL16'0FF00000000000000000000000000F'   V1 source
00006944  00000000 0000000F
                                                   9756
                                                   9757 *                                  sign: C, D, F valid, non-0 digits
                                                   9758          VRR_G VTPX,X'C0C4',1
00006950                                           9759+         DS    0FD
00006950                        00006950           9760+         USING *,R5              base for test data and test routine
00006950  0000696C                                 9761+T314     DC    A(X314)           address of test routine
00006954  013A                                     9762+         DC    H'314'            test number
00006956  00                                       9763+         DC    XL1'00'
00006957  01                                       9764+         DC    HL1'1'            cc
00006958  0B                                       9765+         DC    HL1'11'           cc failed mask
00006959  E5E3D7E7 40404040                        9766+         DC    CL8'VTPX'         instruction name
00006964  00000010                                 9767+         DC    A(16)             result length
00006968  00006984                                 9768+REA314   DC    A(RE314)          result address
                                                   9769+*                                  INSTRUCTION UNDER TEST ROUTINE
0000696C                                           9770+X314     DS    0F
0000696C  E710 5034 0006                00006984   9771+         VL    V1,RE314          get V1 source

00006972                                           9774+         DS    0H                      E65F VTP - Vector Test Decimal
00006972  E6                                       9775+         DC    X'E6'
00006973  01                                       9776+         DC    X'01'                   v1
00006974  0C0C40                                   9777+         DC    HL3'789568'             0, I3, RXB
00006977  5F                                       9778+         DC    X'5F'

00006978  B98D 0020                                9780+         EPSW  R2,R0             exptract psw
0000697C  5020 8E9C                     0000109C   9781+         ST    R2,CCPSW              to save CC
00006980  07FB                                     9782+         BR    R11               return
00006984                                           9783+RE314    DC    0F
00006984                                           9784+         DROP  R5
00006984  0FF00000 00000000                        9785          DC    XL16'0FF00000000000000000000000100A'   V1 source
0000698C  00000000 0000100A
                                                   9786
                                                   9787          VRR_G VTPX,X'C0C6',1
00006998                                           9788+         DS    0FD
00006998                        00006998           9789+         USING *,R5              base for test data and test routine
00006998  000069B4                                 9790+T315     DC    A(X315)           address of test routine
0000699C  013B                                     9791+         DC    H'315'            test number
0000699E  00                                       9792+         DC    XL1'00'
0000699F  01                                       9793+         DC    HL1'1'            cc
000069A0  0B                                       9794+         DC    HL1'11'           cc failed mask
000069A1  E5E3D7E7 40404040                        9795+         DC    CL8'VTPX'         instruction name
000069AC  00000010                                 9796+         DC    A(16)             result length
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000069B0  000069CC                                 9797+REA315   DC    A(RE315)          result address
                                                   9798+*                                INSTRUCTION UNDER TEST ROUTINE
000069B4                                           9799+X315     DS    0F
000069B4  E710 5034 0006                000069CC   9800+         VL    V1,RE315          get V1 source

000069BA                                           9803+         DS    0H                      E65F VTP - Vector Test Decimal
000069BA  E6                                       9804+         DC    X'E6'
000069BB  01                                       9805+         DC    X'01'                   v1
000069BC  0C0C60                                   9806+         DC    HL3'789600'             0, I3, RXB
000069BF  5F                                       9807+         DC    X'5F'

000069C0  B98D 0020                                9809+         EPSW  R2,R0             exptract psw
000069C4  5020 8E9C                     0000109C   9810+         ST    R2,CCPSW              to save CC
000069C8  07FB                                     9811+         BR    R11               return
000069CC                                           9812+RE315    DC    0F
000069CC                                           9813+         DROP  R5
000069CC  0FF00000 00000000                        9814          DC    XL16'0FF00000000000000000000000100B'   V1 source
000069D4  00000000 0000100B
                                                   9815
                                                   9816          VRR_G VTPX,X'C0C8',0
000069E0                                           9817+         DS    0FD
000069E0                        000069E0           9818+         USING *,R5              base for test data and test routine
000069E0  000069FC                                 9819+T316     DC    A(X316)           address of test routine
000069E4  013C                                     9820+         DC    H'316'            test number
000069E6  00                                       9821+         DC    XL1'00'
000069E7  00                                       9822+         DC    HL1'0'            cc
000069E8  07                                       9823+         DC    HL1'7'            cc failed mask
000069E9  E5E3D7E7 40404040                        9824+         DC    CL8'VTPX'         instruction name
000069F4  00000010                                 9825+         DC    A(16)             result length
000069F8  00006A14                                 9826+REA316   DC    A(RE316)          result address
                                                   9827+*                                INSTRUCTION UNDER TEST ROUTINE
000069FC                                           9828+X316     DS    0F
000069FC  E710 5034 0006                00006A14   9829+         VL    V1,RE316          get V1 source

00006A02                                           9832+         DS    0H                      E65F VTP - Vector Test Decimal
00006A02  E6                                       9833+         DC    X'E6'
00006A03  01                                       9834+         DC    X'01'                   v1
00006A04  0C0C80                                   9835+         DC    HL3'789632'             0, I3, RXB
00006A07  5F                                       9836+         DC    X'5F'

00006A08  B98D 0020                                9838+         EPSW  R2,R0             exptract psw
00006A0C  5020 8E9C                     0000109C   9839+         ST    R2,CCPSW              to save CC
00006A10  07FB                                     9840+         BR    R11               return
00006A14                                           9841+RE316    DC    0F
00006A14                                           9842+         DROP  R5
00006A14  0FF00000 00000000                        9843          DC    XL16'0FF00000000000000000000000100C'   V1 source
00006A1C  00000000 0000100C
                                                   9844
                                                   9845          VRR_G VTPX,X'C0CA',0
00006A28                                           9846+         DS    0FD
00006A28                        00006A28           9847+         USING *,R5              base for test data and test routine
00006A28  00006A44                                 9848+T317     DC    A(X317)           address of test routine
00006A2C  013D                                     9849+         DC    H'317'            test number
00006A2E  00                                       9850+         DC    XL1'00'
00006A2F  00                                       9851+         DC    HL1'0'            cc
00006A30  07                                       9852+         DC    HL1'7'            cc failed mask
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006A31  E5E3D7E7 40404040                        9853+         DC    CL8'VTPX'         instruction name
00006A3C  00000010                                 9854+         DC    A(16)             result length
00006A40  00006A5C                                 9855+REA317   DC    A(RE317)          result address
                                                   9856+*                                  INSTRUCTION UNDER TEST ROUTINE
00006A44                                           9857+X317     DS    0F
00006A44  E710 5034 0006                00006A5C   9858+         VL    V1,RE317          get V1 source

00006A4A                                           9861+         DS    0H                      E65F VTP - Vector Test Decimal
00006A4A  E6                                       9862+         DC    X'E6'
00006A4B  01                                       9863+         DC    X'01'                   v1
00006A4C  0C0CA0                                   9864+         DC    HL3'789664'             0, I3, RXB
00006A4F  5F                                       9865+         DC    X'5F'

00006A50  B98D 0020                                9867+         EPSW  R2,R0             exptract psw
00006A54  5020 8E9C                     0000109C   9868+         ST    R2,CCPSW              to save CC
00006A58  07FB                                     9869+         BR    R11               return
00006A5C                                           9870+RE317    DC    0F
00006A5C                                           9871+         DROP  R5
00006A5C  0FF00000 00000000                        9872          DC    XL16'0FF00000000000000000000000100D'   V1 source
00006A64  00000000 0000100D
                                                   9873
                                                   9874          VRR_G VTPX,X'C0CC',1
00006A70                                           9875+         DS    0FD
00006A70                        00006A70           9876+         USING *,R5              base for test data and test routine
00006A70  00006A8C                                 9877+T318     DC    A(X318)           address of test routine
00006A74  013E                                     9878+         DC    H'318'            test number
00006A76  00                                       9879+         DC    XL1'00'
00006A77  01                                       9880+         DC    HL1'1'            cc
00006A78  0B                                       9881+         DC    HL1'11'           cc failed mask
00006A79  E5E3D7E7 40404040                        9882+         DC    CL8'VTPX'         instruction name
00006A84  00000010                                 9883+         DC    A(16)             result length
00006A88  00006AA4                                 9884+REA318   DC    A(RE318)          result address
                                                   9885+*                                  INSTRUCTION UNDER TEST ROUTINE
00006A8C                                           9886+X318     DS    0F
00006A8C  E710 5034 0006                00006AA4   9887+         VL    V1,RE318          get V1 source

00006A92                                           9890+         DS    0H                      E65F VTP - Vector Test Decimal
00006A92  E6                                       9891+         DC    X'E6'
00006A93  01                                       9892+         DC    X'01'                   v1
00006A94  0C0CC0                                   9893+         DC    HL3'789696'             0, I3, RXB
00006A97  5F                                       9894+         DC    X'5F'

00006A98  B98D 0020                                9896+         EPSW  R2,R0             exptract psw
00006A9C  5020 8E9C                     0000109C   9897+         ST    R2,CCPSW              to save CC
00006AA0  07FB                                     9898+         BR    R11               return
00006AA4                                           9899+RE318    DC    0F
00006AA4                                           9900+         DROP  R5
00006AA4  0FF00000 00000000                        9901          DC    XL16'0FF00000000000000000000000100E'   V1 source
00006AAC  00000000 0000100E
                                                   9902
                                                   9903          VRR_G VTPX,X'C0C4',0
00006AB8                                           9904+         DS    0FD
00006AB8                        00006AB8           9905+         USING *,R5              base for test data and test routine
00006AB8  00006AD4                                 9906+T319     DC    A(X319)           address of test routine
00006ABC  013F                                     9907+         DC    H'319'            test number
00006ABE  00                                       9908+         DC    XL1'00'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006ABF  00                                      9909+         DC    HL1'0'            cc
00006AC0  07                                      9910+         DC    HL1'7'            cc failed mask
00006AC1  E5E3D7E7 40404040                       9911+         DC    CL8'VTPX'         instruction name
00006ACC  00000010                                9912+         DC    A(16)             result length
00006AD0  00006AEC                                9913+REA319   DC    A(RE319)          result address
                                                  9914+*                                  INSTRUCTION UNDER TEST ROUTINE
00006AD4                                          9915+X319     DS    0F
00006AD4  E710 5034 0006                00006AEC  9916+         VL    V1,RE319          get V1 source

00006ADA                                          9919+         DS    0H                      E65F VTP - Vector Test Decimal
00006ADA  E6                                      9920+         DC    X'E6'
00006ADB  01                                      9921+         DC    X'01'                   v1
00006ADC  0C0C40                                  9922+         DC    HL3'789568'             0, I3, RXB
00006ADF  5F                                      9923+         DC    X'5F'

00006AE0  B98D 0020                               9925+         EPSW  R2,R0             exptract psw
00006AE4  5020 8E9C                     0000109C  9926+         ST    R2,CCPSW              to save CC
00006AE8  07FB                                    9927+         BR    R11               return
00006AEC                                          9928+RE319    DC    0F
00006AEC                                          9929+         DROP  R5
00006AEC  0FF00000 00000000                       9930          DC    XL16'0FF00000000000000000000001100F'   V1 source
00006AF4  00000000 0001100F
                                                  9931
                                                  9932          VRR_G VTPX,X'C0C4',2
00006B00                                          9933+         DS    0FD
00006B00                        00006B00          9934+         USING *,R5              base for test data and test routine
00006B00  00006B1C                                9935+T320     DC    A(X320)           address of test routine
00006B04  0140                                    9936+         DC    H'320'            test number
00006B06  00                                      9937+         DC    XL1'00'
00006B07  02                                      9938+         DC    HL1'2'            cc
00006B08  0D                                      9939+         DC    HL1'13'           cc failed mask
00006B09  E5E3D7E7 40404040                       9940+         DC    CL8'VTPX'         instruction name
00006B14  00000010                                9941+         DC    A(16)             result length
00006B18  00006B34                                9942+REA320   DC    A(RE320)          result address
                                                  9943+*                                  INSTRUCTION UNDER TEST ROUTINE
00006B1C                                          9944+X320     DS    0F
00006B1C  E710 5034 0006                00006B34  9945+         VL    V1,RE320          get V1 source

00006B22                                          9948+         DS    0H                      E65F VTP - Vector Test Decimal
00006B22  E6                                      9949+         DC    X'E6'
00006B23  01                                      9950+         DC    X'01'                   v1
00006B24  0C0C40                                  9951+         DC    HL3'789568'             0, I3, RXB
00006B27  5F                                      9952+         DC    X'5F'

00006B28  B98D 0020                               9954+         EPSW  R2,R0             exptract psw
00006B2C  5020 8E9C                     0000109C  9955+         ST    R2,CCPSW              to save CC
00006B30  07FB                                    9956+         BR    R11               return
00006B34                                          9957+RE320    DC    0F
00006B34                                          9958+         DROP  R5
00006B34  0FF00000 00000000                       9959          DC    XL16'0FF00000000000000000000011100F'   V1 source
00006B3C  00000000 0011100F
                                                  9960
                                                  9961          VRR_G VTPX,X'C0C4',1
00006B48                                          9962+         DS    0FD
00006B48                        00006B48          9963+         USING *,R5              base for test data and test routine
00006B48  00006B64                                9964+T321     DC    A(X321)           address of test routine
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006B4C  0141                                     9965+         DC    H'321'            test number
00006B4E  00                                       9966+         DC    XL1'00'
00006B4F  01                                       9967+         DC    HL1'1'            cc
00006B50  0B                                       9968+         DC    HL1'11'           cc failed mask
00006B51  E5E3D7E7 40404040                        9969+         DC    CL8'VTPX'         instruction name
00006B5C  00000010                                 9970+         DC    A(16)             result length
00006B60  00006B7C                                 9971+REA321   DC    A(RE321)          result address
                                                   9972+*                                  INSTRUCTION UNDER TEST ROUTINE
00006B64                                           9973+X321     DS    0F
00006B64  E710 5034 0006                 00006B7C  9974+         VL    V1,RE321          get V1 source

00006B6A                                           9977+         DS    0H                      E65F VTP - Vector Test Decimal
00006B6A  E6                                       9978+         DC    X'E6'
00006B6B  01                                       9979+         DC    X'01'                   v1
00006B6C  0C0C40                                   9980+         DC    HL3'789568'             0, I3, RXB
00006B6F  5F                                       9981+         DC    X'5F'

00006B70  B98D 0020                                9983+         EPSW  R2,R0             exptract psw
00006B74  5020 8E9C                      0000109C  9984+         ST    R2,CCPSW              to save CC
00006B78  07FB                                     9985+         BR    R11               return
00006B7C                                           9986+RE321    DC    0F
00006B7C                                           9987+         DROP  R5
00006B7C  0FF00000 00000000                        9988          DC    XL16'0FF00000000000000000000000011000'   V1 source
00006B84  00000000 00011000
                                                   9989
                                                   9990          VRR_G VTPX,X'C0C4',2
00006B90                                           9991+         DS    0FD
00006B90                      00006B90             9992+         USING *,R5              base for test data and test routine
00006B90  00006BAC                                 9993+T322     DC    A(X322)           address of test routine
00006B94  0142                                     9994+         DC    H'322'            test number
00006B96  00                                       9995+         DC    XL1'00'
00006B97  02                                       9996+         DC    HL1'2'            cc
00006B98  0D                                       9997+         DC    HL1'13'           cc failed mask
00006B99  E5E3D7E7 40404040                        9998+         DC    CL8'VTPX'         instruction name
00006BA4  00000010                                 9999+         DC    A(16)             result length
00006BA8  00006BC4                                10000+REA322   DC    A(RE322)          result address
                                                  10001+*                                  INSTRUCTION UNDER TEST ROUTINE
00006BAC                                          10002+X322     DS    0F
00006BAC  E710 5034 0006                 00006BC4 10003+         VL    V1,RE322          get V1 source

00006BB2                                          10006+         DS    0H                      E65F VTP - Vector Test Decimal
00006BB2  E6                                      10007+         DC    X'E6'
00006BB3  01                                      10008+         DC    X'01'                   v1
00006BB4  0C0C40                                  10009+         DC    HL3'789568'             0, I3, RXB
00006BB7  5F                                      10010+         DC    X'5F'

00006BB8  B98D 0020                               10012+         EPSW  R2,R0             exptract psw
00006BBC  5020 8E9C                      0000109C 10013+         ST    R2,CCPSW              to save CC
00006BC0  07FB                                    10014+         BR    R11               return
00006BC4                                          10015+RE322    DC    0F
00006BC4                                          10016+         DROP  R5
00006BC4  0FF00000 00000000                       10017          DC    XL16'0FF00000000000000000000001F00F'   V1 source
00006BCC  00000000 0001F00F
                                                  10018
                                                  10019          VRR_G VTPX,X'C0C4',3
00006BD8                                          10020+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006BD8                      00006BD8            10021+         USING *,R5              base for test data and test routine
00006BD8  00006BF4                                10022+T323     DC    A(X323)           address of test routine
00006BDC  0143                                    10023+         DC    H'323'            test number
00006BDE  00                                      10024+         DC    XL1'00'
00006BDF  03                                      10025+         DC    HL1'3'            cc
00006BE0  0E                                      10026+         DC    HL1'14'           cc failed mask
00006BE1  E5E3D7E7 40404040                       10027+         DC    CL8'VTPX'         instruction name
00006BEC  00000010                                10028+         DC    A(16)             result length
00006BF0  00006C0C                                10029+REA323   DC    A(RE323)          result address
                                                  10030+*                                  INSTRUCTION UNDER TEST ROUTINE
00006BF4                                          10031+X323     DS    0F
00006BF4  E710 5034 0006                00006C0C  10032+         VL    V1,RE323          get V1 source

00006BFA                                          10035+         DS    0H                      E65F VTP - Vector Test Decimal
00006BFA  E6                                      10036+         DC    X'E6'
00006BFB  01                                      10037+         DC    X'01'                   v1
00006BFC  0C0C40                                  10038+         DC    HL3'789568'             0, I3, RXB
00006BFF  5F                                      10039+         DC    X'5F'

00006C00  B98D 0020                               10041+         EPSW  R2,R0             exptract psw
00006C04  5020 8E9C                     0000109C  10042+         ST    R2,CCPSW              to save CC
00006C08  07FB                                    10043+         BR    R11               return
00006C0C                                          10044+RE323    DC    0F
00006C0C                                          10045+         DROP  R5
00006C0C  0FF00000 00000000                       10046          DC    XL16'0FF00000000000000000000000111009'   V1 source
00006C14  00000000 00111009
                                                  10047
                                                  10048
                                                  10049 *-------------------------------------------------------------------
                                                  10050 *  Sign-Test Control: STC=7
                                                  10051 *-------------------------------------------------------------------
                                                  10052 * BTP=0, STC=7, DC=0                   sign: C, D, F valid, no digits
                                                  10053          VRR_G VTPX,X'80E0',1
00006C20                                          10054+         DS    0FD
00006C20                      00006C20            10055+         USING *,R5              base for test data and test routine
00006C20  00006C3C                                10056+T324     DC    A(X324)           address of test routine
00006C24  0144                                    10057+         DC    H'324'            test number
00006C26  00                                      10058+         DC    XL1'00'
00006C27  01                                      10059+         DC    HL1'1'            cc
00006C28  0B                                      10060+         DC    HL1'11'           cc failed mask
00006C29  E5E3D7E7 40404040                       10061+         DC    CL8'VTPX'         instruction name
00006C34  00000010                                10062+         DC    A(16)             result length
00006C38  00006C54                                10063+REA324   DC    A(RE324)          result address
                                                  10064+*                                  INSTRUCTION UNDER TEST ROUTINE
00006C3C                                          10065+X324     DS    0F
00006C3C  E710 5034 0006                00006C54  10066+         VL    V1,RE324          get V1 source

00006C42                                          10069+         DS    0H                      E65F VTP - Vector Test Decimal
00006C42  E6                                      10070+         DC    X'E6'
00006C43  01                                      10071+         DC    X'01'                   v1
00006C44  080E00                                  10072+         DC    HL3'527872'             0, I3, RXB
00006C47  5F                                      10073+         DC    X'5F'

00006C48  B98D 0020                               10075+         EPSW  R2,R0             exptract psw
00006C4C  5020 8E9C                     0000109C  10076+         ST    R2,CCPSW              to save CC
00006C50  07FB                                    10077+         BR    R11               return
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006C54                                           10078+RE324    DC    0F
00006C54                                           10079+         DROP  R5
00006C54  0FF00000 00000000                        10080          DC    XL16'0FF00000000000000000000000000A'   V1 source
00006C5C  00000000 0000000A
                                                   10081
                                                   10082          VRR_G VTPX,X'80E0',1
00006C68                                           10083+         DS    0FD
00006C68                        00006C68           10084+         USING *,R5              base for test data and test routine
00006C68  00006C84                                 10085+T325     DC    A(X325)           address of test routine
00006C6C  0145                                     10086+         DC    H'325'            test number
00006C6E  00                                       10087+         DC    XL1'00'
00006C6F  01                                       10088+         DC    HL1'1'            cc
00006C70  0B                                       10089+         DC    HL1'11'           cc failed mask
00006C71  E5E3D7E7 40404040                        10090+         DC    CL8'VTPX'         instruction name
00006C7C  00000010                                 10091+         DC    A(16)             result length
00006C80  00006C9C                                 10092+REA325   DC    A(RE325)          result address
                                                   10093+*                                  INSTRUCTION UNDER TEST ROUTINE
00006C84                                           10094+X325     DS    0F
00006C84  E710 5034 0006                00006C9C   10095+         VL    V1,RE325          get V1 source

00006C8A                                           10098+         DS    0H                      E65F VTP - Vector Test Decimal
00006C8A  E6                                       10099+         DC    X'E6'
00006C8B  01                                       10100+         DC    X'01'                   v1
00006C8C  080E00                                   10101+         DC    HL3'527872'             0, I3, RXB
00006C8F  5F                                       10102+         DC    X'5F'

00006C90  B98D 0020                                10104+         EPSW  R2,R0             exptract psw
00006C94  5020 8E9C                     0000109C   10105+         ST    R2,CCPSW              to save CC
00006C98  07FB                                     10106+         BR    R11               return
00006C9C                                           10107+RE325    DC    0F
00006C9C                                           10108+         DROP  R5
00006C9C  0FF00000 00000000                        10109          DC    XL16'0FF00000000000000000000000000B'   V1 source
00006CA4  00000000 0000000B
                                                   10110
                                                   10111          VRR_G VTPX,X'80E0',0
00006CB0                                           10112+         DS    0FD
00006CB0                        00006CB0           10113+         USING *,R5              base for test data and test routine
00006CB0  00006CCC                                 10114+T326     DC    A(X326)           address of test routine
00006CB4  0146                                     10115+         DC    H'326'            test number
00006CB6  00                                       10116+         DC    XL1'00'
00006CB7  00                                       10117+         DC    HL1'0'            cc
00006CB8  07                                       10118+         DC    HL1'7'            cc failed mask
00006CB9  E5E3D7E7 40404040                        10119+         DC    CL8'VTPX'         instruction name
00006CC4  00000010                                 10120+         DC    A(16)             result length
00006CC8  00006CE4                                 10121+REA326   DC    A(RE326)          result address
                                                   10122+*                                  INSTRUCTION UNDER TEST ROUTINE
00006CCC                                           10123+X326     DS    0F
00006CCC  E710 5034 0006                00006CE4   10124+         VL    V1,RE326          get V1 source

00006CD2                                           10127+         DS    0H                      E65F VTP - Vector Test Decimal
00006CD2  E6                                       10128+         DC    X'E6'
00006CD3  01                                       10129+         DC    X'01'                   v1
00006CD4  080E00                                   10130+         DC    HL3'527872'             0, I3, RXB
00006CD7  5F                                       10131+         DC    X'5F'

00006CD8  B98D 0020                                10133+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006CDC  5020 8E9C                     0000109C  10134+         ST    R2,CCPSW              to save CC
00006CE0  07FB                                    10135+         BR    R11                 return
00006CE4                                          10136+RE326    DC    0F
00006CE4                                          10137+         DROP  R5
00006CE4  0FF00000 00000000                       10138          DC    XL16'0FF00000000000000000000000000C'   V1 source
00006CEC  00000000 0000000C
                                                  10139
                                                  10140          VRR_G VTPX,X'80E0',0
00006CF8                                          10141+         DS    0FD
00006CF8                        00006CF8          10142+         USING *,R5                base for test data and test routine
00006CF8  00006D14                                10143+T327     DC    A(X327)             address of test routine
00006CFC  0147                                    10144+         DC    H'327'              test number
00006CFE  00                                      10145+         DC    XL1'00'
00006CFF  00                                      10146+         DC    HL1'0'              cc
00006D00  07                                      10147+         DC    HL1'7'              cc failed mask
00006D01  E5E3D7E7 40404040                       10148+         DC    CL8'VTPX'           instruction name
00006D0C  00000010                                10149+         DC    A(16)               result length
00006D10  00006D2C                                10150+REA327   DC    A(RE327)            result address
                                                  10151+*                                   INSTRUCTION UNDER TEST ROUTINE
00006D14                                          10152+X327     DS    0F
00006D14  E710 5034 0006                00006D2C  10153+         VL    V1,RE327            get V1 source

00006D1A                                          10156+         DS    0H                        E65F VTP - Vector Test Decimal
00006D1A  E6                                      10157+         DC    X'E6'
00006D1B  01                                      10158+         DC    X'01'                     v1
00006D1C  080E00                                  10159+         DC    HL3'527872'               0, I3, RXB
00006D1F  5F                                      10160+         DC    X'5F'

00006D20  B98D 0020                               10162+         EPSW  R2,R0               exptract psw
00006D24  5020 8E9C                     0000109C  10163+         ST    R2,CCPSW              to save CC
00006D28  07FB                                    10164+         BR    R11                 return
00006D2C                                          10165+RE327    DC    0F
00006D2C                                          10166+         DROP  R5
00006D2C  0FF00000 00000000                       10167          DC    XL16'0FF00000000000000000000000000D'   V1 source
00006D34  00000000 0000000D
                                                  10168
                                                  10169          VRR_G VTPX,X'80E0',1
00006D40                                          10170+         DS    0FD
00006D40                        00006D40          10171+         USING *,R5                base for test data and test routine
00006D40  00006D5C                                10172+T328     DC    A(X328)             address of test routine
00006D44  0148                                    10173+         DC    H'328'              test number
00006D46  00                                      10174+         DC    XL1'00'
00006D47  01                                      10175+         DC    HL1'1'              cc
00006D48  0B                                      10176+         DC    HL1'11'             cc failed mask
00006D49  E5E3D7E7 40404040                       10177+         DC    CL8'VTPX'           instruction name
00006D54  00000010                                10178+         DC    A(16)               result length
00006D58  00006D74                                10179+REA328   DC    A(RE328)            result address
                                                  10180+*                                   INSTRUCTION UNDER TEST ROUTINE
00006D5C                                          10181+X328     DS    0F
00006D5C  E710 5034 0006                00006D74  10182+         VL    V1,RE328            get V1 source

00006D62                                          10185+         DS    0H                        E65F VTP - Vector Test Decimal
00006D62  E6                                      10186+         DC    X'E6'
00006D63  01                                      10187+         DC    X'01'                     v1
00006D64  080E00                                  10188+         DC    HL3'527872'               0, I3, RXB
00006D67  5F                                      10189+         DC    X'5F'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006D68  B98D 0020                               10191+         EPSW  R2,R0              exptract psw
00006D6C  5020 8E9C                     0000109C  10192+         ST    R2,CCPSW               to save CC
00006D70  07FB                                    10193+         BR    R11                return
00006D74                                          10194+RE328    DC    0F
00006D74                                          10195+         DROP  R5
00006D74  0FF00000 00000000                       10196          DC    XL16'0FF00000000000000000000000000E'   V1 source
00006D7C  00000000 0000000E
                                                  10197
                                                  10198          VRR_G VTPX,X'80E0',0
00006D88                                          10199+         DS    0FD
00006D88                        00006D88          10200+         USING *,R5               base for test data and test routine
00006D88  00006DA4                                10201+T329     DC    A(X329)            address of test routine
00006D8C  0149                                    10202+         DC    H'329'             test number
00006D8E  00                                      10203+         DC    XL1'00'
00006D8F  00                                      10204+         DC    HL1'0'             cc
00006D90  07                                      10205+         DC    HL1'7'             cc failed mask
00006D91  E5E3D7E7 40404040                       10206+         DC    CL8'VTPX'          instruction name
00006D9C  00000010                                10207+         DC    A(16)              result length
00006DA0  00006DBC                                10208+REA329   DC    A(RE329)           result address
                                                  10209+*                                 INSTRUCTION UNDER TEST ROUTINE
00006DA4                                          10210+X329     DS    0F
00006DA4  E710 5034 0006                00006DBC  10211+         VL    V1,RE329           get V1 source

00006DAA                                          10214+         DS    0H                      E65F VTP - Vector Test Decimal
00006DAA  E6                                      10215+         DC    X'E6'
00006DAB  01                                      10216+         DC    X'01'                   v1
00006DAC  080E00                                  10217+         DC    HL3'527872'             0, I3, RXB
00006DAF  5F                                      10218+         DC    X'5F'

00006DB0  B98D 0020                               10220+         EPSW  R2,R0              exptract psw
00006DB4  5020 8E9C                     0000109C  10221+         ST    R2,CCPSW               to save CC
00006DB8  07FB                                    10222+         BR    R11                return
00006DBC                                          10223+RE329    DC    0F
00006DBC                                          10224+         DROP  R5
00006DBC  0FF00000 00000000                       10225          DC    XL16'0FF00000000000000000000000000F'   V1 source
00006DC4  00000000 0000000F
                                                  10226
                                                  10227          VRR_G VTPX,X'80E0',1
00006DD0                                          10228+         DS    0FD
00006DD0                        00006DD0          10229+         USING *,R5               base for test data and test routine
00006DD0  00006DEC                                10230+T330     DC    A(X330)            address of test routine
00006DD4  014A                                    10231+         DC    H'330'             test number
00006DD6  00                                      10232+         DC    XL1'00'
00006DD7  01                                      10233+         DC    HL1'1'             cc
00006DD8  0B                                      10234+         DC    HL1'11'            cc failed mask
00006DD9  E5E3D7E7 40404040                       10235+         DC    CL8'VTPX'          instruction name
00006DE4  00000010                                10236+         DC    A(16)              result length
00006DE8  00006E04                                10237+REA330   DC    A(RE330)           result address
                                                  10238+*                                 INSTRUCTION UNDER TEST ROUTINE
00006DEC                                          10239+X330     DS    0F
00006DEC  E710 5034 0006                00006E04  10240+         VL    V1,RE330           get V1 source

00006DF2                                          10243+         DS    0H                      E65F VTP - Vector Test Decimal
00006DF2  E6                                      10244+         DC    X'E6'
00006DF3  01                                      10245+         DC    X'01'                   v1
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006DF4  080E00                                  10246+         DC    HL3'527872'             0, I3, RXB
00006DF7  5F                                      10247+         DC    X'5F'

00006DF8  B98D 0020                               10249+         EPSW  R2,R0             exptract psw
00006DFC  5020 8E9C                     0000109C  10250+         ST    R2,CCPSW              to save CC
00006E00  07FB                                    10251+         BR    R11               return
00006E04                                          10252+RE330    DC    0F
00006E04                                          10253+         DROP  R5
00006E04  0FF00000 00000000                       10254          DC    XL16'0FF0000000000000000000000000000'   V1 source
00006E0C  00000000 00000000
                                                  10255
                                                  10256          VRR_G VTPX,X'80E0',1
00006E18                                          10257+         DS    0FD
00006E18                        00006E18          10258+         USING *,R5              base for test data and test routine
00006E18  00006E34                                10259+T331     DC    A(X331)           address of test routine
00006E1C  014B                                    10260+         DC    H'331'            test number
00006E1E  00                                      10261+         DC    XL1'00'
00006E1F  01                                      10262+         DC    HL1'1'            cc
00006E20  0B                                      10263+         DC    HL1'11'           cc failed mask
00006E21  E5E3D7E7 40404040                       10264+         DC    CL8'VTPX'         instruction name
00006E2C  00000010                                10265+         DC    A(16)             result length
00006E30  00006E4C                                10266+REA331   DC    A(RE331)          result address
                                                  10267+*                                  INSTRUCTION UNDER TEST ROUTINE
00006E34                                          10268+X331     DS    0F
00006E34  E710 5034 0006                00006E4C  10269+         VL    V1,RE331          get V1 source

00006E3A                                          10272+         DS    0H                     E65F VTP - Vector Test Decimal
00006E3A  E6                                      10273+         DC    X'E6'
00006E3B  01                                      10274+         DC    X'01'                  v1
00006E3C  080E00                                  10275+         DC    HL3'527872'            0, I3, RXB
00006E3F  5F                                      10276+         DC    X'5F'

00006E40  B98D 0020                               10278+         EPSW  R2,R0             exptract psw
00006E44  5020 8E9C                     0000109C  10279+         ST    R2,CCPSW              to save CC
00006E48  07FB                                    10280+         BR    R11               return
00006E4C                                          10281+RE331    DC    0F
00006E4C                                          10282+         DROP  R5
00006E4C  0FF00000 00000000                       10283          DC    XL16'0FF0000000000000000000000000009'   V1 source
00006E54  00000000 00000009
                                                  10284
                                                  10285 * BTP=0, STC=7, DC>0 and odd
                                                  10286 *                                  sign: C, F valid, 0 digits
                                                  10287          VRR_G VTPX,X'80E7',0
00006E60                                          10288+         DS    0FD
00006E60                        00006E60          10289+         USING *,R5              base for test data and test routine
00006E60  00006E7C                                10290+T332     DC    A(X332)           address of test routine
00006E64  014C                                    10291+         DC    H'332'            test number
00006E66  00                                      10292+         DC    XL1'00'
00006E67  00                                      10293+         DC    HL1'0'            cc
00006E68  07                                      10294+         DC    HL1'7'            cc failed mask
00006E69  E5E3D7E7 40404040                       10295+         DC    CL8'VTPX'         instruction name
00006E74  00000010                                10296+         DC    A(16)             result length
00006E78  00006E94                                10297+REA332   DC    A(RE332)          result address
                                                  10298+*                                  INSTRUCTION UNDER TEST ROUTINE
00006E7C                                          10299+X332     DS    0F
00006E7C  E710 5034 0006                00006E94  10300+         VL    V1,RE332          get V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006E82                                          10303+         DS    0H                      E65F VTP - Vector Test Decimal
00006E82  E6                                      10304+         DC    X'E6'
00006E83  01                                      10305+         DC    X'01'                   v1
00006E84  080E70                                  10306+         DC    HL3'527984'             0, I3, RXB
00006E87  5F                                      10307+         DC    X'5F'

00006E88  B98D 0020                               10309+         EPSW  R2,R0             exptract psw
00006E8C  5020 8E9C                     0000109C  10310+         ST    R2,CCPSW              to save CC
00006E90  07FB                                    10311+         BR    R11               return
00006E94                                          10312+RE332    DC    0F
00006E94                                          10313+         DROP  R5
00006E94  0FF00000 00000000                       10314          DC    XL16'0FF00000000000000000000000000000C'   V1 source
00006E9C  00000000 0000000C
                                                  10315
                                                  10316          VRR_G VTPX,X'80EB',1
00006EA8                                          10317+         DS    0FD
00006EA8                        00006EA8          10318+         USING *,R5              base for test data and test routine
00006EA8  00006EC4                                10319+T333     DC    A(X333)           address of test routine
00006EAC  014D                                    10320+         DC    H'333'            test number
00006EAE  00                                      10321+         DC    XL1'00'
00006EAF  01                                      10322+         DC    HL1'1'            cc
00006EB0  0B                                      10323+         DC    HL1'11'           cc failed mask
00006EB1  E5E3D7E7 40404040                       10324+         DC    CL8'VTPX'         instruction name
00006EBC  00000010                                10325+         DC    A(16)             result length
00006EC0  00006EDC                                10326+REA333   DC    A(RE333)          result address
                                                  10327+*                                INSTRUCTION UNDER TEST ROUTINE
00006EC4                                          10328+X333     DS    0F
00006EC4  E710 5034 0006                00006EDC  10329+         VL    V1,RE333          get V1 source

00006ECA                                          10332+         DS    0H                      E65F VTP - Vector Test Decimal
00006ECA  E6                                      10333+         DC    X'E6'
00006ECB  01                                      10334+         DC    X'01'                   v1
00006ECC  080EB0                                  10335+         DC    HL3'528048'             0, I3, RXB
00006ECF  5F                                      10336+         DC    X'5F'

00006ED0  B98D 0020                               10338+         EPSW  R2,R0             exptract psw
00006ED4  5020 8E9C                     0000109C  10339+         ST    R2,CCPSW              to save CC
00006ED8  07FB                                    10340+         BR    R11               return
00006EDC                                          10341+RE333    DC    0F
00006EDC                                          10342+         DROP  R5
00006EDC  0FF00000 00000000                       10343          DC    XL16'0FF00000000000000000000000000000D'   V1 source
00006EE4  00000000 0000000D
                                                  10344
                                                  10345          VRR_G VTPX,X'80EB',0
00006EF0                                          10346+         DS    0FD
00006EF0                        00006EF0          10347+         USING *,R5              base for test data and test routine
00006EF0  00006F0C                                10348+T334     DC    A(X334)           address of test routine
00006EF4  014E                                    10349+         DC    H'334'            test number
00006EF6  00                                      10350+         DC    XL1'00'
00006EF7  00                                      10351+         DC    HL1'0'            cc
00006EF8  07                                      10352+         DC    HL1'7'            cc failed mask
00006EF9  E5E3D7E7 40404040                       10353+         DC    CL8'VTPX'         instruction name
00006F04  00000010                                10354+         DC    A(16)             result length
00006F08  00006F24                                10355+REA334   DC    A(RE334)          result address
                                                  10356+*                                INSTRUCTION UNDER TEST ROUTINE
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006F0C                                           10357+X334     DS    0F
00006F0C  E710 5034 0006                 00006F24  10358+         VL    V1,RE334          get V1 source

00006F12                                           10361+         DS    0H                     E65F VTP - Vector Test Decimal
00006F12  E6                                       10362+         DC    X'E6'
00006F13  01                                       10363+         DC    X'01'                  v1
00006F14  080EB0                                   10364+         DC    HL3'528048'            0, I3, RXB
00006F17  5F                                       10365+         DC    X'5F'

00006F18  B98D 0020                                10367+         EPSW  R2,R0             exptract psw
00006F1C  5020 8E9C                      0000109C  10368+         ST    R2,CCPSW             to save CC
00006F20  07FB                                     10369+         BR    R11               return
00006F24                                           10370+RE334    DC    0F
00006F24                                           10371+         DROP  R5
00006F24  0FF00000 00000000                        10372          DC    XL16'0FF00000000000000000000000000000F'   V1 source
00006F2C  00000000 0000000F
                                                   10373
                                                   10374          VRR_G VTPX,X'80FF',2
00006F38                                           10375+         DS    0FD
00006F38                       00006F38            10376+         USING *,R5              base for test data and test routine
00006F38  00006F54                                 10377+T335     DC    A(X335)           address of test routine
00006F3C  014F                                     10378+         DC    H'335'            test number
00006F3E  00                                       10379+         DC    XL1'00'
00006F3F  02                                       10380+         DC    HL1'2'            cc
00006F40  0D                                       10381+         DC    HL1'13'           cc failed mask
00006F41  E5E3D7E7 40404040                        10382+         DC    CL8'VTPX'         instruction name
00006F4C  00000010                                 10383+         DC    A(16)             result length
00006F50  00006F6C                                 10384+REA335   DC    A(RE335)          result address
                                                   10385+*                                  INSTRUCTION UNDER TEST ROUTINE
00006F54                                           10386+X335     DS    0F
00006F54  E710 5034 0006                 00006F6C  10387+         VL    V1,RE335          get V1 source

00006F5A                                           10390+         DS    0H                     E65F VTP - Vector Test Decimal
00006F5A  E6                                       10391+         DC    X'E6'
00006F5B  01                                       10392+         DC    X'01'                  v1
00006F5C  080FF0                                   10393+         DC    HL3'528368'            0, I3, RXB
00006F5F  5F                                       10394+         DC    X'5F'

00006F60  B98D 0020                                10396+         EPSW  R2,R0             exptract psw
00006F64  5020 8E9C                      0000109C  10397+         ST    R2,CCPSW             to save CC
00006F68  07FB                                     10398+         BR    R11               return
00006F6C                                           10399+RE335    DC    0F
00006F6C                                           10400+         DROP  R5
00006F6C  F0000000 00000000                        10401          DC    XL16'F0000000000000000000000000000000C'   V1 source
00006F74  00000000 0000000C
                                                   10402
                                                   10403 *                                  sign: C, D, F valid, non-0 digits
                                                   10404          VRR_G VTPX,X'80E5',1
00006F80                                           10405+         DS    0FD
00006F80                       00006F80            10406+         USING *,R5              base for test data and test routine
00006F80  00006F9C                                 10407+T336     DC    A(X336)           address of test routine
00006F84  0150                                     10408+         DC    H'336'            test number
00006F86  00                                       10409+         DC    XL1'00'
00006F87  01                                       10410+         DC    HL1'1'            cc
00006F88  0B                                       10411+         DC    HL1'11'           cc failed mask
00006F89  E5E3D7E7 40404040                        10412+         DC    CL8'VTPX'         instruction name
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00006F94  00000010                                10413+          DC    A(16)              result length
00006F98  00006FB4                                10414+REA336    DC    A(RE336)           result address
                                                  10415+*                                  INSTRUCTION UNDER TEST ROUTINE
00006F9C                                          10416+X336      DS    0F
00006F9C  E710 5034 0006                 00006FB4 10417+          VL    V1,RE336           get V1 source

00006FA2                                          10420+          DS    0H                       E65F VTP - Vector Test Decimal
00006FA2  E6                                      10421+          DC    X'E6'
00006FA3  01                                      10422+          DC    X'01'                    v1
00006FA4  080E50                                  10423+          DC    HL3'527952'              0, I3, RXB
00006FA7  5F                                      10424+          DC    X'5F'

00006FA8  B98D 0020                               10426+          EPSW  R2,R0              exptract psw
00006FAC  5020 8E9C                      0000109C 10427+          ST    R2,CCPSW               to save CC
00006FB0  07FB                                    10428+          BR    R11                return
00006FB4                                          10429+RE336     DC    0F
00006FB4                                          10430+          DROP  R5
00006FB4  0FF00000 00000000                       10431           DC    XL16'0FF00000000000000000000000100A'   V1 source
00006FBC  00000000 0000100A
                                                  10432
                                                  10433           VRR_G VTPX,X'80E7',1
00006FC8                                          10434+          DS    0FD
00006FC8                         00006FC8         10435+          USING *,R5               base for test data and test routine
00006FC8  00006FE4                                10436+T337      DC    A(X337)            address of test routine
00006FCC  0151                                    10437+          DC    H'337'             test number
00006FCE  00                                      10438+          DC    XL1'00'
00006FCF  01                                      10439+          DC    HL1'1'             cc
00006FD0  0B                                      10440+          DC    HL1'11'            cc failed mask
00006FD1  E5E3D7E7 40404040                       10441+          DC    CL8'VTPX'          instruction name
00006FDC  00000010                                10442+          DC    A(16)              result length
00006FE0  00006FFC                                10443+REA337    DC    A(RE337)           result address
                                                  10444+*                                  INSTRUCTION UNDER TEST ROUTINE
00006FE4                                          10445+X337      DS    0F
00006FE4  E710 5034 0006                 00006FFC 10446+          VL    V1,RE337           get V1 source

00006FEA                                          10449+          DS    0H                       E65F VTP - Vector Test Decimal
00006FEA  E6                                      10450+          DC    X'E6'
00006FEB  01                                      10451+          DC    X'01'                    v1
00006FEC  080E70                                  10452+          DC    HL3'527984'              0, I3, RXB
00006FEF  5F                                      10453+          DC    X'5F'

00006FF0  B98D 0020                               10455+          EPSW  R2,R0              exptract psw
00006FF4  5020 8E9C                      0000109C 10456+          ST    R2,CCPSW               to save CC
00006FF8  07FB                                    10457+          BR    R11                return
00006FFC                                          10458+RE337     DC    0F
00006FFC                                          10459+          DROP  R5
00006FFC  0FF00000 00000000                       10460           DC    XL16'0FF00000000000000000000000100B'   V1 source
00007004  00000000 0000100B
                                                  10461
                                                  10462           VRR_G VTPX,X'80E9',0
00007010                                          10463+          DS    0FD
00007010                         00007010         10464+          USING *,R5               base for test data and test routine
00007010  0000702C                                10465+T338      DC    A(X338)            address of test routine
00007014  0152                                    10466+          DC    H'338'             test number
00007016  00                                      10467+          DC    XL1'00'
00007017  00                                      10468+          DC    HL1'0'             cc
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007018  07                                      10469+         DC    HL1'7'            cc failed mask
00007019  E5E3D7E7 40404040                       10470+         DC    CL8'VTPX'         instruction name
00007024  00000010                                10471+         DC    A(16)             result length
00007028  00007044                                10472+REA338   DC    A(RE338)          result address
                                                  10473+*                                  INSTRUCTION UNDER TEST ROUTINE
0000702C                                          10474+X338     DS    0F
0000702C  E710 5034 0006                 00007044 10475+         VL    V1,RE338          get V1 source

00007032                                          10478+         DS    0H                      E65F VTP - Vector Test Decimal
00007032  E6                                      10479+         DC    X'E6'
00007033  01                                      10480+         DC    X'01'                   v1
00007034  080E90                                  10481+         DC    HL3'528016'             0, I3, RXB
00007037  5F                                      10482+         DC    X'5F'

00007038  B98D 0020                               10484+         EPSW  R2,R0             exptract psw
0000703C  5020 8E9C                      0000109C 10485+         ST    R2,CCPSW              to save CC
00007040  07FB                                    10486+         BR    R11               return
00007044                                          10487+RE338    DC    0F
00007044                                          10488+         DROP  R5
00007044  0FF00000 00000000                       10489          DC    XL16'0FF00000000000000000000000100C'   V1 source
0000704C  00000000 0000100C
                                                  10490
                                                  10491          VRR_G VTPX,X'80EB',0
00007058                                          10492+         DS    0FD
00007058                       00007058           10493+         USING *,R5              base for test data and test routine
00007058  00007074                                10494+T339     DC    A(X339)           address of test routine
0000705C  0153                                    10495+         DC    H'339'            test number
0000705E  00                                      10496+         DC    XL1'00'
0000705F  00                                      10497+         DC    HL1'0'            cc
00007060  07                                      10498+         DC    HL1'7'            cc failed mask
00007061  E5E3D7E7 40404040                       10499+         DC    CL8'VTPX'         instruction name
0000706C  00000010                                10500+         DC    A(16)             result length
00007070  0000708C                                10501+REA339   DC    A(RE339)          result address
                                                  10502+*                                  INSTRUCTION UNDER TEST ROUTINE
00007074                                          10503+X339     DS    0F
00007074  E710 5034 0006                 0000708C 10504+         VL    V1,RE339          get V1 source

0000707A                                          10507+         DS    0H                      E65F VTP - Vector Test Decimal
0000707A  E6                                      10508+         DC    X'E6'
0000707B  01                                      10509+         DC    X'01'                   v1
0000707C  080EB0                                  10510+         DC    HL3'528048'             0, I3, RXB
0000707F  5F                                      10511+         DC    X'5F'

00007080  B98D 0020                               10513+         EPSW  R2,R0             exptract psw
00007084  5020 8E9C                      0000109C 10514+         ST    R2,CCPSW              to save CC
00007088  07FB                                    10515+         BR    R11               return
0000708C                                          10516+RE339    DC    0F
0000708C                                          10517+         DROP  R5
0000708C  0FF00000 00000000                       10518          DC    XL16'0FF00000000000000000000000100D'   V1 source
00007094  00000000 0000100D
                                                  10519
                                                  10520          VRR_G VTPX,X'80ED',1
000070A0                                          10521+         DS    0FD
000070A0                       000070A0           10522+         USING *,R5              base for test data and test routine
000070A0  000070BC                                10523+T340     DC    A(X340)           address of test routine
000070A4  0154                                    10524+         DC    H'340'            test number
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000070A6  00                                      10525+         DC    XL1'00'
000070A7  01                                      10526+         DC    HL1'1'            cc
000070A8  0B                                      10527+         DC    HL1'11'           cc failed mask
000070A9  E5E3D7E7 40404040                       10528+         DC    CL8'VTPX'         instruction name
000070B4  00000010                                10529+         DC    A(16)             result length
000070B8  000070D4                                10530+REA340   DC    A(RE340)          result address
                                                  10531+*                                  INSTRUCTION UNDER TEST ROUTINE
000070BC                                          10532+X340     DS    0F
000070BC  E710 5034 0006                000070D4  10533+         VL    V1,RE340          get V1 source

000070C2                                          10536+         DS    0H                     E65F VTP - Vector Test Decimal
000070C2  E6                                      10537+         DC    X'E6'
000070C3  01                                      10538+         DC    X'01'                  v1
000070C4  080ED0                                  10539+         DC    HL3'528080'            0, I3, RXB
000070C7  5F                                      10540+         DC    X'5F'

000070C8  B98D 0020                               10542+         EPSW  R2,R0             exptract psw
000070CC  5020 8E9C                     0000109C  10543+         ST    R2,CCPSW              to save CC
000070D0  07FB                                    10544+         BR    R11               return
000070D4                                          10545+RE340    DC    0F
000070D4                                          10546+         DROP  R5
000070D4  0FF00000 00000000                       10547          DC    XL16'0FF00000000000000000000000100E'   V1 source
000070DC  00000000 0000100E
                                                  10548
                                                  10549          VRR_G VTPX,X'80EF',0
000070E8                                          10550+         DS    0FD
000070E8                        000070E8          10551+         USING *,R5              base for test data and test routine
000070E8  00007104                                10552+T341     DC    A(X341)           address of test routine
000070EC  0155                                    10553+         DC    H'341'            test number
000070EE  00                                      10554+         DC    XL1'00'
000070EF  00                                      10555+         DC    HL1'0'            cc
000070F0  07                                      10556+         DC    HL1'7'            cc failed mask
000070F1  E5E3D7E7 40404040                       10557+         DC    CL8'VTPX'         instruction name
000070FC  00000010                                10558+         DC    A(16)             result length
00007100  0000711C                                10559+REA341   DC    A(RE341)          result address
                                                  10560+*                                  INSTRUCTION UNDER TEST ROUTINE
00007104                                          10561+X341     DS    0F
00007104  E710 5034 0006                0000711C  10562+         VL    V1,RE341          get V1 source

0000710A                                          10565+         DS    0H                     E65F VTP - Vector Test Decimal
0000710A  E6                                      10566+         DC    X'E6'
0000710B  01                                      10567+         DC    X'01'                  v1
0000710C  080EF0                                  10568+         DC    HL3'528112'            0, I3, RXB
0000710F  5F                                      10569+         DC    X'5F'

00007110  B98D 0020                               10571+         EPSW  R2,R0             exptract psw
00007114  5020 8E9C                     0000109C  10572+         ST    R2,CCPSW              to save CC
00007118  07FB                                    10573+         BR    R11               return
0000711C                                          10574+RE341    DC    0F
0000711C                                          10575+         DROP  R5
0000711C  0FF00000 00000000                       10576          DC    XL16'0FF00000000000000000000000100F'   V1 source
00007124  00000000 0000100F
                                                  10577
                                                  10578          VRR_G VTPX,X'80EF',1
00007130                                          10579+         DS    0FD
00007130                        00007130          10580+         USING *,R5              base for test data and test routine
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007130  0000714C                                 10581+T342     DC    A(X342)           address of test routine
00007134  0156                                     10582+         DC    H'342'            test number
00007136  00                                       10583+         DC    XL1'00'
00007137  01                                       10584+         DC    HL1'1'            cc
00007138  0B                                       10585+         DC    HL1'11'           cc failed mask
00007139  E5E3D7E7 40404040                        10586+         DC    CL8'VTPX'         instruction name
00007144  00000010                                 10587+         DC    A(16)             result length
00007148  00007164                                 10588+REA342   DC    A(RE342)          result address
                                                   10589+*                                  INSTRUCTION UNDER TEST ROUTINE
0000714C                                           10590+X342     DS    0F
0000714C  E710 5034 0006                 00007164  10591+         VL    V1,RE342          get V1 source

00007152                                           10594+         DS    0H                      E65F VTP - Vector Test Decimal
00007152  E6                                       10595+         DC    X'E6'
00007153  01                                       10596+         DC    X'01'                   v1
00007154  080EF0                                   10597+         DC    HL3'528112'             0, I3, RXB
00007157  5F                                       10598+         DC    X'5F'

00007158  B98D 0020                                10600+         EPSW  R2,R0             exptract psw
0000715C  5020 8E9C                      0000109C  10601+         ST    R2,CCPSW              to save CC
00007160  07FB                                     10602+         BR    R11               return
00007164                                           10603+RE342    DC    0F
00007164                                           10604+         DROP  R5
00007164  0FF00000 00000000                        10605          DC    XL16'0FF00000000000000000000000001000'   V1 source
0000716C  00000000 00001000
                                                   10606
                                                   10607          VRR_G VTPX,X'80EF',2
00007178                                           10608+         DS    0FD
00007178                         00007178          10609+         USING *,R5              base for test data and test routine
00007178  00007194                                 10610+T343     DC    A(X343)           address of test routine
0000717C  0157                                     10611+         DC    H'343'            test number
0000717E  00                                       10612+         DC    XL1'00'
0000717F  02                                       10613+         DC    HL1'2'            cc
00007180  0D                                       10614+         DC    HL1'13'           cc failed mask
00007181  E5E3D7E7 40404040                        10615+         DC    CL8'VTPX'         instruction name
0000718C  00000010                                 10616+         DC    A(16)             result length
00007190  000071AC                                 10617+REA343   DC    A(RE343)          result address
                                                   10618+*                                  INSTRUCTION UNDER TEST ROUTINE
00007194                                           10619+X343     DS    0F
00007194  E710 5034 0006                 000071AC  10620+         VL    V1,RE343          get V1 source

0000719A                                           10623+         DS    0H                      E65F VTP - Vector Test Decimal
0000719A  E6                                       10624+         DC    X'E6'
0000719B  01                                       10625+         DC    X'01'                   v1
0000719C  080EF0                                   10626+         DC    HL3'528112'             0, I3, RXB
0000719F  5F                                       10627+         DC    X'5F'

000071A0  B98D 0020                                10629+         EPSW  R2,R0             exptract psw
000071A4  5020 8E9C                      0000109C  10630+         ST    R2,CCPSW              to save CC
000071A8  07FB                                     10631+         BR    R11               return
000071AC                                           10632+RE343    DC    0F
000071AC                                           10633+         DROP  R5
000071AC  0FF00000 00000000                        10634          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000071B4  00000000 0000F00F
                                                   10635
                                                   10636          VRR_G VTPX,X'80EF',3
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000071C0                                           10637+         DS    0FD
000071C0                     000071C0              10638+         USING *,R5              base for test data and test routine
000071C0  000071DC                                 10639+T344     DC    A(X344)           address of test routine
000071C4  0158                                     10640+         DC    H'344'            test number
000071C6  00                                       10641+         DC    XL1'00'
000071C7  03                                       10642+         DC    HL1'3'            cc
000071C8  0E                                       10643+         DC    HL1'14'           cc failed mask
000071C9  E5E3D7E7 40404040                        10644+         DC    CL8'VTPX'         instruction name
000071D4  00000010                                 10645+         DC    A(16)             result length
000071D8  000071F4                                 10646+REA344   DC    A(RE344)          result address
                                                   10647+*                                  INSTRUCTION UNDER TEST ROUTINE
000071DC                                           10648+X344     DS    0F
000071DC  E710 5034 0006                000071F4   10649+         VL    V1,RE344          get V1 source

000071E2                                           10652+         DS    0H                     E65F VTP - Vector Test Decimal
000071E2  E6                                       10653+         DC    X'E6'
000071E3  01                                       10654+         DC    X'01'                  v1
000071E4  080EF0                                   10655+         DC    HL3'528112'            0, I3, RXB
000071E7  5F                                       10656+         DC    X'5F'

000071E8  B98D 0020                                10658+         EPSW  R2,R0             exptract psw
000071EC  5020 8E9C                     0000109C   10659+         ST    R2,CCPSW              to save CC
000071F0  07FB                                     10660+         BR    R11               return
000071F4                                           10661+RE344    DC    0F
000071F4                                           10662+         DROP  R5
000071F4  0FF00000 00000000                        10663          DC    XL16'0FF0000000000000000000000000F009'   V1 source
000071FC  00000000 0000F009
                                                   10664
                                                   10665          VRR_G VTPX,X'80FF',1
00007208                                           10666+         DS    0FD
00007208                     00007208              10667+         USING *,R5              base for test data and test routine
00007208  00007224                                 10668+T345     DC    A(X345)           address of test routine
0000720C  0159                                     10669+         DC    H'345'            test number
0000720E  00                                       10670+         DC    XL1'00'
0000720F  01                                       10671+         DC    HL1'1'            cc
00007210  0B                                       10672+         DC    HL1'11'           cc failed mask
00007211  E5E3D7E7 40404040                        10673+         DC    CL8'VTPX'         instruction name
0000721C  00000010                                 10674+         DC    A(16)             result length
00007220  0000723C                                 10675+REA345   DC    A(RE345)          result address
                                                   10676+*                                  INSTRUCTION UNDER TEST ROUTINE
00007224                                           10677+X345     DS    0F
00007224  E710 5034 0006                0000723C   10678+         VL    V1,RE345          get V1 source

0000722A                                           10681+         DS    0H                     E65F VTP - Vector Test Decimal
0000722A  E6                                       10682+         DC    X'E6'
0000722B  01                                       10683+         DC    X'01'                  v1
0000722C  080FF0                                   10684+         DC    HL3'528368'            0, I3, RXB
0000722F  5F                                       10685+         DC    X'5F'

00007230  B98D 0020                                10687+         EPSW  R2,R0             exptract psw
00007234  5020 8E9C                     0000109C   10688+         ST    R2,CCPSW              to save CC
00007238  07FB                                     10689+         BR    R11               return
0000723C                                           10690+RE345    DC    0F
0000723C                                           10691+         DROP  R5
0000723C  11000000 00000000                        10692          DC    XL16'11000000000000000000000000000000B'   V1 source
00007244  00000000 0000000B
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   10693
                                                   10694 * BTP=0, STC=7, DC>0 and even
                                                   10695 *                                   sign: C, F valid, 0 digits
                                                   10696          VRR_G VTPX,X'80E6',1
00007250                                           10697+         DS    0FD
00007250                      00007250             10698+         USING *,R5              base for test data and test routine
00007250  0000726C                                 10699+T346     DC    A(X346)           address of test routine
00007254  015A                                     10700+         DC    H'346'            test number
00007256  00                                       10701+         DC    XL1'00'
00007257  01                                       10702+         DC    HL1'1'            cc
00007258  0B                                       10703+         DC    HL1'11'           cc failed mask
00007259  E5E3D7E7 40404040                        10704+         DC    CL8'VTPX'         instruction name
00007264  00000010                                 10705+         DC    A(16)             result length
00007268  00007284                                 10706+REA346   DC    A(RE346)          result address
                                                   10707+*                                  INSTRUCTION UNDER TEST ROUTINE
0000726C                                           10708+X346     DS    0F
0000726C  E710 5034 0006                00007284   10709+         VL    V1,RE346          get V1 source

00007272                                           10712+         DS    0H                      E65F VTP - Vector Test Decimal
00007272  E6                                       10713+         DC    X'E6'
00007273  01                                       10714+         DC    X'01'                   v1
00007274  080E60                                   10715+         DC    HL3'527968'             0, I3, RXB
00007277  5F                                       10716+         DC    X'5F'

00007278  B98D 0020                                10718+         EPSW  R2,R0             exptract psw
0000727C  5020 8E9C                     0000109C   10719+         ST    R2,CCPSW              to save CC
00007280  07FB                                     10720+         BR    R11               return
00007284                                           10721+RE346    DC    0F
00007284                                           10722+         DROP  R5
00007284  0FF00000 00000000                        10723          DC    XL16'0FF00000000000000000000000000B'   V1 source
0000728C  00000000 0000000B
                                                   10724
                                                   10725          VRR_G VTPX,X'80EA',0
00007298                                           10726+         DS    0FD
00007298                      00007298             10727+         USING *,R5              base for test data and test routine
00007298  000072B4                                 10728+T347     DC    A(X347)           address of test routine
0000729C  015B                                     10729+         DC    H'347'            test number
0000729E  00                                       10730+         DC    XL1'00'
0000729F  00                                       10731+         DC    HL1'0'            cc
000072A0  07                                       10732+         DC    HL1'7'            cc failed mask
000072A1  E5E3D7E7 40404040                        10733+         DC    CL8'VTPX'         instruction name
000072AC  00000010                                 10734+         DC    A(16)             result length
000072B0  000072CC                                 10735+REA347   DC    A(RE347)          result address
                                                   10736+*                                  INSTRUCTION UNDER TEST ROUTINE
000072B4                                           10737+X347     DS    0F
000072B4  E710 5034 0006                000072CC   10738+         VL    V1,RE347          get V1 source

000072BA                                           10741+         DS    0H                      E65F VTP - Vector Test Decimal
000072BA  E6                                       10742+         DC    X'E6'
000072BB  01                                       10743+         DC    X'01'                   v1
000072BC  080EA0                                   10744+         DC    HL3'528032'             0, I3, RXB
000072BF  5F                                       10745+         DC    X'5F'

000072C0  B98D 0020                                10747+         EPSW  R2,R0             exptract psw
000072C4  5020 8E9C                     0000109C   10748+         ST    R2,CCPSW              to save CC
000072C8  07FB                                     10749+         BR    R11               return
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000072CC                                           10750+RE347    DC    0F
000072CC                                           10751+         DROP  R5
000072CC  0FF00000 00000000                        10752          DC    XL16'0FF00000000000000000000000000000C'   V1 source
000072D4  00000000 0000000C
                                                   10753
                                                   10754          VRR_G VTPX,X'80EA',1
000072E0                                           10755+         DS    0FD
000072E0                      000072E0             10756+         USING *,R5              base for test data and test routine
000072E0  000072FC                                 10757+T348     DC    A(X348)           address of test routine
000072E4  015C                                     10758+         DC    H'348'            test number
000072E6  00                                       10759+         DC    XL1'00'
000072E7  01                                       10760+         DC    HL1'1'            cc
000072E8  0B                                       10761+         DC    HL1'11'           cc failed mask
000072E9  E5E3D7E7 40404040                        10762+         DC    CL8'VTPX'         instruction name
000072F4  00000010                                 10763+         DC    A(16)             result length
000072F8  00007314                                 10764+REA348   DC    A(RE348)          result address
                                                   10765+*                                  INSTRUCTION UNDER TEST ROUTINE
000072FC                                           10766+X348     DS    0F
000072FC  E710 5034 0006                00007314   10767+         VL    V1,RE348          get V1 source

00007302                                           10770+         DS    0H                      E65F VTP - Vector Test Decimal
00007302  E6                                       10771+         DC    X'E6'
00007303  01                                       10772+         DC    X'01'                   v1
00007304  080EA0                                   10773+         DC    HL3'528032'             0, I3, RXB
00007307  5F                                       10774+         DC    X'5F'

00007308  B98D 0020                                10776+         EPSW  R2,R0             exptract psw
0000730C  5020 8E9C                     0000109C   10777+         ST    R2,CCPSW              to save CC
00007310  07FB                                     10778+         BR    R11               return
00007314                                           10779+RE348    DC    0F
00007314                                           10780+         DROP  R5
00007314  0FF00000 00000000                        10781          DC    XL16'0FF00000000000000000000000000000D'   V1 source
0000731C  00000000 0000000D
                                                   10782
                                                   10783          VRR_G VTPX,X'80EA',0
00007328                                           10784+         DS    0FD
00007328                      00007328             10785+         USING *,R5              base for test data and test routine
00007328  00007344                                 10786+T349     DC    A(X349)           address of test routine
0000732C  015D                                     10787+         DC    H'349'            test number
0000732E  00                                       10788+         DC    XL1'00'
0000732F  00                                       10789+         DC    HL1'0'            cc
00007330  07                                       10790+         DC    HL1'7'            cc failed mask
00007331  E5E3D7E7 40404040                        10791+         DC    CL8'VTPX'         instruction name
0000733C  00000010                                 10792+         DC    A(16)             result length
00007340  0000735C                                 10793+REA349   DC    A(RE349)          result address
                                                   10794+*                                  INSTRUCTION UNDER TEST ROUTINE
00007344                                           10795+X349     DS    0F
00007344  E710 5034 0006                0000735C   10796+         VL    V1,RE349          get V1 source

0000734A                                           10799+         DS    0H                      E65F VTP - Vector Test Decimal
0000734A  E6                                       10800+         DC    X'E6'
0000734B  01                                       10801+         DC    X'01'                   v1
0000734C  080EA0                                   10802+         DC    HL3'528032'             0, I3, RXB
0000734F  5F                                       10803+         DC    X'5F'

00007350  B98D 0020                                10805+         EPSW  R2,R0             exptract psw
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007354  5020 8E9C                     0000109C  10806+         ST    R2,CCPSW              to save CC
00007358  07FB                                    10807+         BR    R11                 return
0000735C                                          10808+RE349    DC    0F
0000735C                                          10809+         DROP  R5
0000735C  0FF00000 00000000                       10810          DC    XL16'0FF00000000000000000000000000000F'   V1 source
00007364  00000000 0000000F
                                                  10811
                                                  10812          VRR_G VTPX,X'80FE',1
00007370                                          10813+         DS    0FD
00007370                        00007370          10814+         USING *,R5                base for test data and test routine
00007370  0000738C                                10815+T350     DC    A(X350)             address of test routine
00007374  015E                                    10816+         DC    H'350'              test number
00007376  00                                      10817+         DC    XL1'00'
00007377  01                                      10818+         DC    HL1'1'              cc
00007378  0B                                      10819+         DC    HL1'11'             cc failed mask
00007379  E5E3D7E7 40404040                       10820+         DC    CL8'VTPX'           instruction name
00007384  00000010                                10821+         DC    A(16)               result length
00007388  000073A4                                10822+REA350   DC    A(RE350)            result address
                                                  10823+*                                   INSTRUCTION UNDER TEST ROUTINE
0000738C                                          10824+X350     DS    0F
0000738C  E710 5034 0006                000073A4  10825+         VL    V1,RE350            get V1 source

00007392                                          10828+         DS    0H                        E65F VTP - Vector Test Decimal
00007392  E6                                      10829+         DC    X'E6'
00007393  01                                      10830+         DC    X'01'                     v1
00007394  080FE0                                  10831+         DC    HL3'528352'               0, I3, RXB
00007397  5F                                      10832+         DC    X'5F'

00007398  B98D 0020                               10834+         EPSW  R2,R0               exptract psw
0000739C  5020 8E9C                     0000109C  10835+         ST    R2,CCPSW              to save CC
000073A0  07FB                                    10836+         BR    R11                 return
000073A4                                          10837+RE350    DC    0F
000073A4                                          10838+         DROP  R5
000073A4  00000000 00000000                       10839          DC    XL16'0000000000000000000000000000000E'   V1 source
000073AC  00000000 0000000E
                                                  10840
                                                  10841 *                                   sign: C, D, F valid, non-0 digits
                                                  10842          VRR_G VTPX,X'80E4',1
000073B8                                          10843+         DS    0FD
000073B8                        000073B8          10844+         USING *,R5                base for test data and test routine
000073B8  000073D4                                10845+T351     DC    A(X351)             address of test routine
000073BC  015F                                    10846+         DC    H'351'              test number
000073BE  00                                      10847+         DC    XL1'00'
000073BF  01                                      10848+         DC    HL1'1'              cc
000073C0  0B                                      10849+         DC    HL1'11'             cc failed mask
000073C1  E5E3D7E7 40404040                       10850+         DC    CL8'VTPX'           instruction name
000073CC  00000010                                10851+         DC    A(16)               result length
000073D0  000073EC                                10852+REA351   DC    A(RE351)            result address
                                                  10853+*                                   INSTRUCTION UNDER TEST ROUTINE
000073D4                                          10854+X351     DS    0F
000073D4  E710 5034 0006                000073EC  10855+         VL    V1,RE351            get V1 source

000073DA                                          10858+         DS    0H                        E65F VTP - Vector Test Decimal
000073DA  E6                                      10859+         DC    X'E6'
000073DB  01                                      10860+         DC    X'01'                     v1
000073DC  080E40                                  10861+         DC    HL3'527936'               0, I3, RXB
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000073DF  5F                                      10862+         DC    X'5F'

000073E0  B98D 0020                               10864+         EPSW  R2,R0             exptract psw
000073E4  5020 8E9C                     0000109C  10865+         ST    R2,CCPSW              to save CC
000073E8  07FB                                    10866+         BR    R11               return
000073EC                                          10867+RE351    DC    0F
000073EC                                          10868+         DROP  R5
000073EC  0FF00000 00000000                       10869          DC    XL16'0FF0000000000000000000000100A'   V1 source
000073F4  00000000 0000100A
                                                  10870
                                                  10871          VRR_G VTPX,X'80E6',1
00007400                                          10872+         DS    0FD
00007400                        00007400          10873+         USING *,R5              base for test data and test routine
00007400  0000741C                                10874+T352     DC    A(X352)           address of test routine
00007404  0160                                    10875+         DC    H'352'            test number
00007406  00                                      10876+         DC    XL1'00'
00007407  01                                      10877+         DC    HL1'1'            cc
00007408  0B                                      10878+         DC    HL1'11'           cc failed mask
00007409  E5E3D7E7 40404040                       10879+         DC    CL8'VTPX'         instruction name
00007414  00000010                                10880+         DC    A(16)             result length
00007418  00007434                                10881+REA352   DC    A(RE352)          result address
                                                  10882+*                                  INSTRUCTION UNDER TEST ROUTINE
0000741C                                          10883+X352     DS    0F
0000741C  E710 5034 0006                00007434  10884+         VL    V1,RE352          get V1 source

00007422                                          10887+         DS    0H                      E65F VTP - Vector Test Decimal
00007422  E6                                      10888+         DC    X'E6'
00007423  01                                      10889+         DC    X'01'                   v1
00007424  080E60                                  10890+         DC    HL3'527968'             0, I3, RXB
00007427  5F                                      10891+         DC    X'5F'

00007428  B98D 0020                               10893+         EPSW  R2,R0             exptract psw
0000742C  5020 8E9C                     0000109C  10894+         ST    R2,CCPSW              to save CC
00007430  07FB                                    10895+         BR    R11               return
00007434                                          10896+RE352    DC    0F
00007434                                          10897+         DROP  R5
00007434  0FF00000 00000000                       10898          DC    XL16'0FF0000000000000000000000100B'   V1 source
0000743C  00000000 0000100B
                                                  10899
                                                  10900          VRR_G VTPX,X'80E8',0
00007448                                          10901+         DS    0FD
00007448                        00007448          10902+         USING *,R5              base for test data and test routine
00007448  00007464                                10903+T353     DC    A(X353)           address of test routine
0000744C  0161                                    10904+         DC    H'353'            test number
0000744E  00                                      10905+         DC    XL1'00'
0000744F  00                                      10906+         DC    HL1'0'            cc
00007450  07                                      10907+         DC    HL1'7'            cc failed mask
00007451  E5E3D7E7 40404040                       10908+         DC    CL8'VTPX'         instruction name
0000745C  00000010                                10909+         DC    A(16)             result length
00007460  0000747C                                10910+REA353   DC    A(RE353)          result address
                                                  10911+*                                  INSTRUCTION UNDER TEST ROUTINE
00007464                                          10912+X353     DS    0F
00007464  E710 5034 0006                0000747C  10913+         VL    V1,RE353          get V1 source

0000746A                                          10916+         DS    0H                      E65F VTP - Vector Test Decimal
0000746A  E6                                      10917+         DC    X'E6'
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000746B  01                                     10918+         DC    X'01'                    v1
0000746C  080E80                                 10919+         DC    HL3'528000'              0, I3, RXB
0000746F  5F                                     10920+         DC    X'5F'

00007470  B98D 0020                              10922+         EPSW  R2,R0              exptract psw
00007474  5020 8E9C                    0000109C  10923+         ST    R2,CCPSW               to save CC
00007478  07FB                                   10924+         BR    R11                return
0000747C                                         10925+RE353    DC    0F
0000747C                                         10926+         DROP  R5
0000747C  0FF00000 00000000                      10927          DC    XL16'0FF00000000000000000000000100C'   V1 source
00007484  00000000 0000100C
                                                 10928
                                                 10929          VRR_G VTPX,X'80EA',0
00007490                                         10930+         DS    0FD
00007490                       00007490          10931+         USING *,R5               base for test data and test routine
00007490  000074AC                               10932+T354     DC    A(X354)            address of test routine
00007494  0162                                   10933+         DC    H'354'             test number
00007496  00                                     10934+         DC    XL1'00'
00007497  00                                     10935+         DC    HL1'0'             cc
00007498  07                                     10936+         DC    HL1'7'             cc failed mask
00007499  E5E3D7E7 40404040                      10937+         DC    CL8'VTPX'          instruction name
000074A4  00000010                               10938+         DC    A(16)              result length
000074A8  000074C4                               10939+REA354   DC    A(RE354)           result address
                                                 10940+*                                 INSTRUCTION UNDER TEST ROUTINE
000074AC                                         10941+X354     DS    0F
000074AC  E710 5034 0006               000074C4  10942+         VL    V1,RE354           get V1 source

000074B2                                         10945+         DS    0H                       E65F VTP - Vector Test Decimal
000074B2  E6                                     10946+         DC    X'E6'
000074B3  01                                     10947+         DC    X'01'                    v1
000074B4  080EA0                                 10948+         DC    HL3'528032'              0, I3, RXB
000074B7  5F                                     10949+         DC    X'5F'

000074B8  B98D 0020                              10951+         EPSW  R2,R0              exptract psw
000074BC  5020 8E9C                    0000109C  10952+         ST    R2,CCPSW               to save CC
000074C0  07FB                                   10953+         BR    R11                return
000074C4                                         10954+RE354    DC    0F
000074C4                                         10955+         DROP  R5
000074C4  0FF00000 00000000                      10956          DC    XL16'0FF00000000000000000000000100D'   V1 source
000074CC  00000000 0000100D
                                                 10957
                                                 10958          VRR_G VTPX,X'80EC',1
000074D8                                         10959+         DS    0FD
000074D8                       000074D8          10960+         USING *,R5               base for test data and test routine
000074D8  000074F4                               10961+T355     DC    A(X355)            address of test routine
000074DC  0163                                   10962+         DC    H'355'             test number
000074DE  00                                     10963+         DC    XL1'00'
000074DF  01                                     10964+         DC    HL1'1'             cc
000074E0  0B                                     10965+         DC    HL1'11'            cc failed mask
000074E1  E5E3D7E7 40404040                      10966+         DC    CL8'VTPX'          instruction name
000074EC  00000010                               10967+         DC    A(16)              result length
000074F0  0000750C                               10968+REA355   DC    A(RE355)           result address
                                                 10969+*                                 INSTRUCTION UNDER TEST ROUTINE
000074F4                                         10970+X355     DS    0F
000074F4  E710 5034 0006               0000750C  10971+         VL    V1,RE355           get V1 source
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000074FA                                          10974+         DS    0H                      E65F VTP - Vector Test Decimal
000074FA  E6                                      10975+         DC    X'E6'
000074FB  01                                      10976+         DC    X'01'                   v1
000074FC  080EC0                                  10977+         DC    HL3'528064'             0, I3, RXB
000074FF  5F                                      10978+         DC    X'5F'

00007500  B98D 0020                               10980+         EPSW  R2,R0             exptract psw
00007504  5020 8E9C                     0000109C  10981+         ST    R2,CCPSW              to save CC
00007508  07FB                                    10982+         BR    R11               return
0000750C                                          10983+RE355    DC    0F
0000750C                                          10984+         DROP  R5
0000750C  0FF00000 00000000                       10985          DC    XL16'0FF00000000000000000000000100E'   V1 source
00007514  00000000 0000100E
                                                  10986
                                                  10987          VRR_G VTPX,X'80EE',0
00007520                                          10988+         DS    0FD
00007520                        00007520          10989+         USING *,R5              base for test data and test routine
00007520  0000753C                                10990+T356     DC    A(X356)           address of test routine
00007524  0164                                    10991+         DC    H'356'            test number
00007526  00                                      10992+         DC    XL1'00'
00007527  00                                      10993+         DC    HL1'0'            cc
00007528  07                                      10994+         DC    HL1'7'            cc failed mask
00007529  E5E3D7E7 40404040                       10995+         DC    CL8'VTPX'         instruction name
00007534  00000010                                10996+         DC    A(16)             result length
00007538  00007554                                10997+REA356   DC    A(RE356)          result address
                                                  10998+*                                  INSTRUCTION UNDER TEST ROUTINE
0000753C                                          10999+X356     DS    0F
0000753C  E710 5034 0006                00007554  11000+         VL    V1,RE356          get V1 source

00007542                                          11003+         DS    0H                      E65F VTP - Vector Test Decimal
00007542  E6                                      11004+         DC    X'E6'
00007543  01                                      11005+         DC    X'01'                   v1
00007544  080EE0                                  11006+         DC    HL3'528096'             0, I3, RXB
00007547  5F                                      11007+         DC    X'5F'

00007548  B98D 0020                               11009+         EPSW  R2,R0             exptract psw
0000754C  5020 8E9C                     0000109C  11010+         ST    R2,CCPSW              to save CC
00007550  07FB                                    11011+         BR    R11               return
00007554                                          11012+RE356    DC    0F
00007554                                          11013+         DROP  R5
00007554  0FF00000 00000000                       11014          DC    XL16'0FF00000000000000000000000100F'   V1 source
0000755C  00000000 0000100F
                                                  11015
                                                  11016          VRR_G VTPX,X'80EE',1
00007568                                          11017+         DS    0FD
00007568                        00007568          11018+         USING *,R5              base for test data and test routine
00007568  00007584                                11019+T357     DC    A(X357)           address of test routine
0000756C  0165                                    11020+         DC    H'357'            test number
0000756E  00                                      11021+         DC    XL1'00'
0000756F  01                                      11022+         DC    HL1'1'            cc
00007570  0B                                      11023+         DC    HL1'11'           cc failed mask
00007571  E5E3D7E7 40404040                       11024+         DC    CL8'VTPX'         instruction name
0000757C  00000010                                11025+         DC    A(16)             result length
00007580  0000759C                                11026+REA357   DC    A(RE357)          result address
                                                  11027+*                                  INSTRUCTION UNDER TEST ROUTINE
00007584                                          11028+X357     DS    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007584  E710 5034 0006                0000759C  11029+         VL    V1,RE357          get V1 source

0000758A                                          11032+         DS    0H                      E65F VTP - Vector Test Decimal
0000758A  E6                                      11033+         DC    X'E6'
0000758B  01                                      11034+         DC    X'01'                   v1
0000758C  080EE0                                  11035+         DC    HL3'528096'             0, I3, RXB
0000758F  5F                                      11036+         DC    X'5F'

00007590  B98D 0020                               11038+         EPSW  R2,R0             exptract psw
00007594  5020 8E9C                     0000109C  11039+         ST    R2,CCPSW              to save CC
00007598  07FB                                    11040+         BR    R11               return
0000759C                                          11041+RE357    DC    0F
0000759C                                          11042+         DROP  R5
0000759C  0FF00000 00000000                       11043          DC    XL16'0FF00000000000000000000000001000'   V1 source
000075A4  00000000 00001000
                                                  11044
                                                  11045          VRR_G VTPX,X'80EE',2
000075B0                                          11046+         DS    0FD
000075B0                        000075B0          11047+         USING *,R5              base for test data and test routine
000075B0  000075CC                                11048+T358     DC    A(X358)           address of test routine
000075B4  0166                                    11049+         DC    H'358'            test number
000075B6  00                                      11050+         DC    XL1'00'
000075B7  02                                      11051+         DC    HL1'2'            cc
000075B8  0D                                      11052+         DC    HL1'13'           cc failed mask
000075B9  E5E3D7E7 40404040                       11053+         DC    CL8'VTPX'         instruction name
000075C4  00000010                                11054+         DC    A(16)             result length
000075C8  000075E4                                11055+REA358   DC    A(RE358)          result address
                                                  11056+*                                  INSTRUCTION UNDER TEST ROUTINE
000075CC                                          11057+X358     DS    0F
000075CC  E710 5034 0006                000075E4  11058+         VL    V1,RE358          get V1 source

000075D2                                          11061+         DS    0H                      E65F VTP - Vector Test Decimal
000075D2  E6                                      11062+         DC    X'E6'
000075D3  01                                      11063+         DC    X'01'                   v1
000075D4  080EE0                                  11064+         DC    HL3'528096'             0, I3, RXB
000075D7  5F                                      11065+         DC    X'5F'

000075D8  B98D 0020                               11067+         EPSW  R2,R0             exptract psw
000075DC  5020 8E9C                     0000109C  11068+         ST    R2,CCPSW              to save CC
000075E0  07FB                                    11069+         BR    R11               return
000075E4                                          11070+RE358    DC    0F
000075E4                                          11071+         DROP  R5
000075E4  0FF00000 00000000                       11072          DC    XL16'0FF00000000000000000000000F00F'   V1 source
000075EC  00000000 0000F00F
                                                  11073
                                                  11074          VRR_G VTPX,X'80EE',3
000075F8                                          11075+         DS    0FD
000075F8                        000075F8          11076+         USING *,R5              base for test data and test routine
000075F8  00007614                                11077+T359     DC    A(X359)           address of test routine
000075FC  0167                                    11078+         DC    H'359'            test number
000075FE  00                                      11079+         DC    XL1'00'
000075FF  03                                      11080+         DC    HL1'3'            cc
00007600  0E                                      11081+         DC    HL1'14'           cc failed mask
00007601  E5E3D7E7 40404040                       11082+         DC    CL8'VTPX'         instruction name
0000760C  00000010                                11083+         DC    A(16)             result length
00007610  0000762C                                11084+REA359   DC    A(RE359)          result address
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   11085+*                                INSTRUCTION UNDER TEST ROUTINE
00007614                                           11086+X359     DS    0F
00007614  E710 5034 0006                0000762C   11087+         VL    V1,RE359          get V1 source

0000761A                                           11090+         DS    0H                      E65F VTP - Vector Test Decimal
0000761A  E6                                       11091+         DC    X'E6'
0000761B  01                                       11092+         DC    X'01'                   v1
0000761C  080EE0                                   11093+         DC    HL3'528096'             0, I3, RXB
0000761F  5F                                       11094+         DC    X'5F'

00007620  B98D 0020                                11096+         EPSW  R2,R0             exptract psw
00007624  5020 8E9C                     0000109C   11097+         ST    R2,CCPSW              to save CC
00007628  07FB                                     11098+         BR    R11               return
0000762C                                           11099+RE359    DC    0F
0000762C                                           11100+         DROP  R5
0000762C  0FF00000 00000000                        11101          DC    XL16'0FF00000000000000000000000F009'   V1 source
00007634  00000000 0000F009
                                                   11102
                                                   11103          VRR_G VTPX,X'80FE',1
00007640                                           11104+         DS    0FD
00007640                        00007640           11105+         USING *,R5              base for test data and test routine
00007640  0000765C                                 11106+T360     DC    A(X360)           address of test routine
00007644  0168                                     11107+         DC    H'360'            test number
00007646  00                                       11108+         DC    XL1'00'
00007647  01                                       11109+         DC    HL1'1'            cc
00007648  0B                                       11110+         DC    HL1'11'           cc failed mask
00007649  E5E3D7E7 40404040                        11111+         DC    CL8'VTPX'         instruction name
00007654  00000010                                 11112+         DC    A(16)             result length
00007658  00007674                                 11113+REA360   DC    A(RE360)          result address
                                                   11114+*                                INSTRUCTION UNDER TEST ROUTINE
0000765C                                           11115+X360     DS    0F
0000765C  E710 5034 0006                00007674   11116+         VL    V1,RE360          get V1 source

00007662                                           11119+         DS    0H                      E65F VTP - Vector Test Decimal
00007662  E6                                       11120+         DC    X'E6'
00007663  01                                       11121+         DC    X'01'                   v1
00007664  080FE0                                   11122+         DC    HL3'528352'             0, I3, RXB
00007667  5F                                       11123+         DC    X'5F'

00007668  B98D 0020                                11125+         EPSW  R2,R0             exptract psw
0000766C  5020 8E9C                     0000109C   11126+         ST    R2,CCPSW              to save CC
00007670  07FB                                     11127+         BR    R11               return
00007674                                           11128+RE360    DC    0F
00007674                                           11129+         DROP  R5
00007674  10000000 00000000                        11130          DC    XL16'10000000000000000000000000000B'   V1 source
0000767C  00000000 0000000B
                                                   11131
                                                   11132 * BTP=1, STC=7, DC>0 and even
                                                   11133 *                                     sign: C, F valid, 0 digits
                                                   11134          VRR_G VTPX,X'C0E6',1
00007688                                           11135+         DS    0FD
00007688                        00007688           11136+         USING *,R5              base for test data and test routine
00007688  000076A4                                 11137+T361     DC    A(X361)           address of test routine
0000768C  0169                                     11138+         DC    H'361'            test number
0000768E  00                                       11139+         DC    XL1'00'
0000768F  01                                       11140+         DC    HL1'1'            cc
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007690  0B                                      11141+         DC    HL1'11'            cc failed mask
00007691  E5E3D7E7 40404040                       11142+         DC    CL8'VTPX'          instruction name
0000769C  00000010                                11143+         DC    A(16)              result length
000076A0  000076BC                                11144+REA361   DC    A(RE361)           result address
                                                  11145+*                                   INSTRUCTION UNDER TEST ROUTINE
000076A4                                          11146+X361     DS    0F
000076A4  E710 5034 0006                000076BC  11147+         VL    V1,RE361           get V1 source

000076AA                                          11150+         DS    0H                       E65F VTP - Vector Test Decimal
000076AA  E6                                      11151+         DC    X'E6'
000076AB  01                                      11152+         DC    X'01'                    v1
000076AC  0C0E60                                  11153+         DC    HL3'790112'              0, I3, RXB
000076AF  5F                                      11154+         DC    X'5F'

000076B0  B98D 0020                               11156+         EPSW  R2,R0              exptract psw
000076B4  5020 8E9C                     0000109C  11157+         ST    R2,CCPSW               to save CC
000076B8  07FB                                    11158+         BR    R11                return
000076BC                                          11159+RE361    DC    0F
000076BC                                          11160+         DROP  R5
000076BC  0FF00000 00000000                       11161          DC    XL16'0FF00000000000000000000000000000B'   V1 source
000076C4  00000000 0000000B
                                                  11162
                                                  11163          VRR_G VTPX,X'C0EA',0
000076D0                                          11164+         DS    0FD
000076D0                      000076D0            11165+         USING *,R5               base for test data and test routine
000076D0  000076EC                                11166+T362     DC    A(X362)            address of test routine
000076D4  016A                                    11167+         DC    H'362'             test number
000076D6  00                                      11168+         DC    XL1'00'
000076D7  00                                      11169+         DC    HL1'0'             cc
000076D8  07                                      11170+         DC    HL1'7'             cc failed mask
000076D9  E5E3D7E7 40404040                       11171+         DC    CL8'VTPX'          instruction name
000076E4  00000010                                11172+         DC    A(16)              result length
000076E8  00007704                                11173+REA362   DC    A(RE362)           result address
                                                  11174+*                                   INSTRUCTION UNDER TEST ROUTINE
000076EC                                          11175+X362     DS    0F
000076EC  E710 5034 0006                00007704  11176+         VL    V1,RE362           get V1 source

000076F2                                          11179+         DS    0H                       E65F VTP - Vector Test Decimal
000076F2  E6                                      11180+         DC    X'E6'
000076F3  01                                      11181+         DC    X'01'                    v1
000076F4  0C0EA0                                  11182+         DC    HL3'790176'              0, I3, RXB
000076F7  5F                                      11183+         DC    X'5F'

000076F8  B98D 0020                               11185+         EPSW  R2,R0              exptract psw
000076FC  5020 8E9C                     0000109C  11186+         ST    R2,CCPSW               to save CC
00007700  07FB                                    11187+         BR    R11                return
00007704                                          11188+RE362    DC    0F
00007704                                          11189+         DROP  R5
00007704  0FF00000 00000000                       11190          DC    XL16'0FF00000000000000000000000000C'   V1 source
0000770C  00000000 0000000C
                                                  11191
                                                  11192          VRR_G VTPX,X'C0EA',1
00007718                                          11193+         DS    0FD
00007718                      00007718            11194+         USING *,R5               base for test data and test routine
00007718  00007734                                11195+T363     DC    A(X363)            address of test routine
0000771C  016B                                    11196+         DC    H'363'             test number
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000771E  00                                      11197+         DC    XL1'00'
0000771F  01                                      11198+         DC    HL1'1'            cc
00007720  0B                                      11199+         DC    HL1'11'           cc failed mask
00007721  E5E3D7E7 40404040                       11200+         DC    CL8'VTPX'         instruction name
0000772C  00000010                                11201+         DC    A(16)             result length
00007730  0000774C                                11202+REA363   DC    A(RE363)          result address
                                                  11203+*                                  INSTRUCTION UNDER TEST ROUTINE
00007734                                          11204+X363     DS    0F
00007734  E710 5034 0006                0000774C  11205+         VL    V1,RE363          get V1 source

0000773A                                          11208+         DS    0H                      E65F VTP - Vector Test Decimal
0000773A  E6                                      11209+         DC    X'E6'
0000773B  01                                      11210+         DC    X'01'                   v1
0000773C  0C0EA0                                  11211+         DC    HL3'790176'             0, I3, RXB
0000773F  5F                                      11212+         DC    X'5F'

00007740  B98D 0020                               11214+         EPSW  R2,R0             exptract psw
00007744  5020 8E9C                     0000109C  11215+         ST    R2,CCPSW              to save CC
00007748  07FB                                    11216+         BR    R11               return
0000774C                                          11217+RE363    DC    0F
0000774C                                          11218+         DROP  R5
0000774C  0FF00000 00000000                       11219          DC    XL16'0FF00000000000000000000000000D'   V1 source
00007754  00000000 0000000D
                                                  11220
                                                  11221          VRR_G VTPX,X'C0EA',0
00007760                                          11222+         DS    0FD
00007760                        00007760          11223+         USING *,R5              base for test data and test routine
00007760  0000777C                                11224+T364     DC    A(X364)           address of test routine
00007764  016C                                    11225+         DC    H'364'            test number
00007766  00                                      11226+         DC    XL1'00'
00007767  00                                      11227+         DC    HL1'0'            cc
00007768  07                                      11228+         DC    HL1'7'            cc failed mask
00007769  E5E3D7E7 40404040                       11229+         DC    CL8'VTPX'         instruction name
00007774  00000010                                11230+         DC    A(16)             result length
00007778  00007794                                11231+REA364   DC    A(RE364)          result address
                                                  11232+*                                  INSTRUCTION UNDER TEST ROUTINE
0000777C                                          11233+X364     DS    0F
0000777C  E710 5034 0006                00007794  11234+         VL    V1,RE364          get V1 source

00007782                                          11237+         DS    0H                      E65F VTP - Vector Test Decimal
00007782  E6                                      11238+         DC    X'E6'
00007783  01                                      11239+         DC    X'01'                   v1
00007784  0C0EA0                                  11240+         DC    HL3'790176'             0, I3, RXB
00007787  5F                                      11241+         DC    X'5F'

00007788  B98D 0020                               11243+         EPSW  R2,R0             exptract psw
0000778C  5020 8E9C                     0000109C  11244+         ST    R2,CCPSW              to save CC
00007790  07FB                                    11245+         BR    R11               return
00007794                                          11246+RE364    DC    0F
00007794                                          11247+         DROP  R5
00007794  0FF00000 00000000                       11248          DC    XL16'0FF00000000000000000000000000F'   V1 source
0000779C  00000000 0000000F
                                                  11249
                                                  11250 *                                  sign: C, D, F valid, non-0 digits
                                                  11251          VRR_G VTPX,X'C0E4',1
000077A8                                          11252+         DS    0FD
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000077A8                     000077A8            11253+         USING *,R5              base for test data and test routine
000077A8  000077C4                               11254+T365     DC    A(X365)           address of test routine
000077AC  016D                                   11255+         DC    H'365'            test number
000077AE  00                                     11256+         DC    XL1'00'
000077AF  01                                     11257+         DC    HL1'1'            cc
000077B0  0B                                     11258+         DC    HL1'11'           cc failed mask
000077B1  E5E3D7E7 40404040                      11259+         DC    CL8'VTPX'         instruction name
000077BC  00000010                               11260+         DC    A(16)             result length
000077C0  000077DC                               11261+REA365   DC    A(RE365)          result address
                                                 11262+*                                  INSTRUCTION UNDER TEST ROUTINE
000077C4                                         11263+X365     DS    0F
000077C4  E710 5034 0006                000077DC 11264+         VL    V1,RE365          get V1 source

000077CA                                         11267+         DS    0H                      E65F VTP - Vector Test Decimal
000077CA  E6                                     11268+         DC    X'E6'
000077CB  01                                     11269+         DC    X'01'                   v1
000077CC  0C0E40                                 11270+         DC    HL3'790080'             0, I3, RXB
000077CF  5F                                     11271+         DC    X'5F'

000077D0  B98D 0020                              11273+         EPSW  R2,R0             exptract psw
000077D4  5020 8E9C                     0000109C 11274+         ST    R2,CCPSW              to save CC
000077D8  07FB                                   11275+         BR    R11               return
000077DC                                         11276+RE365    DC    0F
000077DC                                         11277+         DROP  R5
000077DC  0FF00000 00000000                      11278          DC    XL16'0FF00000000000000000000000100A'   V1 source
000077E4  00000000 0000100A
                                                 11279
                                                 11280          VRR_G VTPX,X'C0E6',1
000077F0                                         11281+         DS    0FD
000077F0                     000077F0            11282+         USING *,R5              base for test data and test routine
000077F0  0000780C                               11283+T366     DC    A(X366)           address of test routine
000077F4  016E                                   11284+         DC    H'366'            test number
000077F6  00                                     11285+         DC    XL1'00'
000077F7  01                                     11286+         DC    HL1'1'            cc
000077F8  0B                                     11287+         DC    HL1'11'           cc failed mask
000077F9  E5E3D7E7 40404040                      11288+         DC    CL8'VTPX'         instruction name
00007804  00000010                               11289+         DC    A(16)             result length
00007808  00007824                               11290+REA366   DC    A(RE366)          result address
                                                 11291+*                                  INSTRUCTION UNDER TEST ROUTINE
0000780C                                         11292+X366     DS    0F
0000780C  E710 5034 0006                00007824 11293+         VL    V1,RE366          get V1 source

00007812                                         11296+         DS    0H                      E65F VTP - Vector Test Decimal
00007812  E6                                     11297+         DC    X'E6'
00007813  01                                     11298+         DC    X'01'                   v1
00007814  0C0E60                                 11299+         DC    HL3'790112'             0, I3, RXB
00007817  5F                                     11300+         DC    X'5F'

00007818  B98D 0020                              11302+         EPSW  R2,R0             exptract psw
0000781C  5020 8E9C                     0000109C 11303+         ST    R2,CCPSW              to save CC
00007820  07FB                                   11304+         BR    R11               return
00007824                                         11305+RE366    DC    0F
00007824                                         11306+         DROP  R5
00007824  0FF00000 00000000                      11307          DC    XL16'0FF00000000000000000000000100B'   V1 source
0000782C  00000000 0000100B
                                                 11308
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   11309          VRR_G VTPX,X'C0E8',0
00007838                                           11310+         DS    0FD
00007838                     00007838              11311+         USING *,R5              base for test data and test routine
00007838  00007854                                 11312+T367     DC    A(X367)           address of test routine
0000783C  016F                                     11313+         DC    H'367'            test number
0000783E  00                                       11314+         DC    XL1'00'
0000783F  00                                       11315+         DC    HL1'0'            cc
00007840  07                                       11316+         DC    HL1'7'            cc failed mask
00007841  E5E3D7E7 40404040                        11317+         DC    CL8'VTPX'         instruction name
0000784C  00000010                                 11318+         DC    A(16)             result length
00007850  0000786C                                 11319+REA367   DC    A(RE367)          result address
                                                   11320+*                                  INSTRUCTION UNDER TEST ROUTINE
00007854                                           11321+X367     DS    0F
00007854  E710 5034 0006                0000786C   11322+         VL    V1,RE367          get V1 source

0000785A                                           11325+         DS    0H                      E65F VTP - Vector Test Decimal
0000785A  E6                                       11326+         DC    X'E6'
0000785B  01                                       11327+         DC    X'01'                   v1
0000785C  0C0E80                                   11328+         DC    HL3'790144'             0, I3, RXB
0000785F  5F                                       11329+         DC    X'5F'

00007860  B98D 0020                                11331+         EPSW  R2,R0             exptract psw
00007864  5020 8E9C                     0000109C   11332+         ST    R2,CCPSW              to save CC
00007868  07FB                                     11333+         BR    R11               return
0000786C                                           11334+RE367    DC    0F
0000786C                                           11335+         DROP  R5
0000786C  0FF00000 00000000                        11336          DC    XL16'0FF0000000000000000000000100C'   V1 source
00007874  00000000 0000100C
                                                   11337
                                                   11338          VRR_G VTPX,X'C0EA',0
00007880                                           11339+         DS    0FD
00007880                     00007880              11340+         USING *,R5              base for test data and test routine
00007880  0000789C                                 11341+T368     DC    A(X368)           address of test routine
00007884  0170                                     11342+         DC    H'368'            test number
00007886  00                                       11343+         DC    XL1'00'
00007887  00                                       11344+         DC    HL1'0'            cc
00007888  07                                       11345+         DC    HL1'7'            cc failed mask
00007889  E5E3D7E7 40404040                        11346+         DC    CL8'VTPX'         instruction name
00007894  00000010                                 11347+         DC    A(16)             result length
00007898  000078B4                                 11348+REA368   DC    A(RE368)          result address
                                                   11349+*                                  INSTRUCTION UNDER TEST ROUTINE
0000789C                                           11350+X368     DS    0F
0000789C  E710 5034 0006                000078B4   11351+         VL    V1,RE368          get V1 source

000078A2                                           11354+         DS    0H                      E65F VTP - Vector Test Decimal
000078A2  E6                                       11355+         DC    X'E6'
000078A3  01                                       11356+         DC    X'01'                   v1
000078A4  0C0EA0                                   11357+         DC    HL3'790176'             0, I3, RXB
000078A7  5F                                       11358+         DC    X'5F'

000078A8  B98D 0020                                11360+         EPSW  R2,R0             exptract psw
000078AC  5020 8E9C                     0000109C   11361+         ST    R2,CCPSW              to save CC
000078B0  07FB                                     11362+         BR    R11               return
000078B4                                           11363+RE368    DC    0F
000078B4                                           11364+         DROP  R5
000078B4  0FF00000 00000000                        11365          DC    XL16'0FF0000000000000000000000100D'   V1 source
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000078BC  00000000 0000100D
                                                   11366
                                                   11367          VRR_G VTPX,X'C0EC',1
000078C8                                           11368+         DS    0FD
000078C8                     000078C8              11369+         USING *,R5              base for test data and test routine
000078C8  000078E4                                 11370+T369     DC    A(X369)           address of test routine
000078CC  0171                                     11371+         DC    H'369'            test number
000078CE  00                                       11372+         DC    XL1'00'
000078CF  01                                       11373+         DC    HL1'1'            cc
000078D0  0B                                       11374+         DC    HL1'11'           cc failed mask
000078D1  E5E3D7E7 40404040                        11375+         DC    CL8'VTPX'         instruction name
000078DC  00000010                                 11376+         DC    A(16)             result length
000078E0  000078FC                                 11377+REA369   DC    A(RE369)          result address
                                                   11378+*                                  INSTRUCTION UNDER TEST ROUTINE
000078E4                                           11379+X369     DS    0F
000078E4  E710 5034 0006               000078FC    11380+         VL    V1,RE369          get V1 source

000078EA                                           11383+         DS    0H                      E65F VTP - Vector Test Decimal
000078EA  E6                                       11384+         DC    X'E6'
000078EB  01                                       11385+         DC    X'01'                   v1
000078EC  0C0EC0                                   11386+         DC    HL3'790208'             0, I3, RXB
000078EF  5F                                       11387+         DC    X'5F'

000078F0  B98D 0020                                11389+         EPSW  R2,R0             exptract psw
000078F4  5020 8E9C                    0000109C    11390+         ST    R2,CCPSW              to save CC
000078F8  07FB                                     11391+         BR    R11               return
000078FC                                           11392+RE369    DC    0F
000078FC                                           11393+         DROP  R5
000078FC  0FF00000 00000000                        11394          DC    XL16'0FF00000000000000000000000100E'   V1 source
00007904  00000000 0000100E
                                                   11395
                                                   11396          VRR_G VTPX,X'C0E4',0
00007910                                           11397+         DS    0FD
00007910                     00007910              11398+         USING *,R5              base for test data and test routine
00007910  0000792C                                 11399+T370     DC    A(X370)           address of test routine
00007914  0172                                     11400+         DC    H'370'            test number
00007916  00                                       11401+         DC    XL1'00'
00007917  00                                       11402+         DC    HL1'0'            cc
00007918  07                                       11403+         DC    HL1'7'            cc failed mask
00007919  E5E3D7E7 40404040                        11404+         DC    CL8'VTPX'         instruction name
00007924  00000010                                 11405+         DC    A(16)             result length
00007928  00007944                                 11406+REA370   DC    A(RE370)          result address
                                                   11407+*                                  INSTRUCTION UNDER TEST ROUTINE
0000792C                                           11408+X370     DS    0F
0000792C  E710 5034 0006               00007944    11409+         VL    V1,RE370          get V1 source

00007932                                           11412+         DS    0H                      E65F VTP - Vector Test Decimal
00007932  E6                                       11413+         DC    X'E6'
00007933  01                                       11414+         DC    X'01'                   v1
00007934  0C0E40                                   11415+         DC    HL3'790080'             0, I3, RXB
00007937  5F                                       11416+         DC    X'5F'

00007938  B98D 0020                                11418+         EPSW  R2,R0             exptract psw
0000793C  5020 8E9C                    0000109C    11419+         ST    R2,CCPSW              to save CC
00007940  07FB                                     11420+         BR    R11               return
00007944                                           11421+RE370    DC    0F
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007944                                           11422+         DROP  R5
00007944  0FF00000 00000000                        11423          DC    XL16'0FF00000000000000000000001100F'   V1 source
0000794C  00000000 0001100F
                                                   11424
                                                   11425          VRR_G VTPX,X'C0E4',2
00007958                                           11426+         DS    0FD
00007958                      00007958             11427+         USING *,R5              base for test data and test routine
00007958  00007974                                 11428+T371     DC    A(X371)           address of test routine
0000795C  0173                                     11429+         DC    H'371'            test number
0000795E  00                                       11430+         DC    XL1'00'
0000795F  02                                       11431+         DC    HL1'2'            cc
00007960  0D                                       11432+         DC    HL1'13'           cc failed mask
00007961  E5E3D7E7 40404040                        11433+         DC    CL8'VTPX'         instruction name
0000796C  00000010                                 11434+         DC    A(16)             result length
00007970  0000798C                                 11435+REA371   DC    A(RE371)          result address
                                                   11436+*                                  INSTRUCTION UNDER TEST ROUTINE
00007974                                           11437+X371     DS    0F
00007974  E710 5034 0006                0000798C   11438+         VL    V1,RE371          get V1 source

0000797A                                           11441+         DS    0H                      E65F VTP - Vector Test Decimal
0000797A  E6                                       11442+         DC    X'E6'
0000797B  01                                       11443+         DC    X'01'                   v1
0000797C  0C0E40                                   11444+         DC    HL3'790080'             0, I3, RXB
0000797F  5F                                       11445+         DC    X'5F'

00007980  B98D 0020                                11447+         EPSW  R2,R0             exptract psw
00007984  5020 8E9C                     0000109C   11448+         ST    R2,CCPSW                to save CC
00007988  07FB                                     11449+         BR    R11               return
0000798C                                           11450+RE371    DC    0F
0000798C                                           11451+         DROP  R5
0000798C  0FF00000 00000000                        11452          DC    XL16'0FF00000000000000000000011100F'   V1 source
00007994  00000000 0011100F
                                                   11453
                                                   11454          VRR_G VTPX,X'C0E4',1
000079A0                                           11455+         DS    0FD
000079A0                      000079A0             11456+         USING *,R5              base for test data and test routine
000079A0  000079BC                                 11457+T372     DC    A(X372)           address of test routine
000079A4  0174                                     11458+         DC    H'372'            test number
000079A6  00                                       11459+         DC    XL1'00'
000079A7  01                                       11460+         DC    HL1'1'            cc
000079A8  0B                                       11461+         DC    HL1'11'           cc failed mask
000079A9  E5E3D7E7 40404040                        11462+         DC    CL8'VTPX'         instruction name
000079B4  00000010                                 11463+         DC    A(16)             result length
000079B8  000079D4                                 11464+REA372   DC    A(RE372)          result address
                                                   11465+*                                  INSTRUCTION UNDER TEST ROUTINE
000079BC                                           11466+X372     DS    0F
000079BC  E710 5034 0006                000079D4   11467+         VL    V1,RE372          get V1 source

000079C2                                           11470+         DS    0H                      E65F VTP - Vector Test Decimal
000079C2  E6                                       11471+         DC    X'E6'
000079C3  01                                       11472+         DC    X'01'                   v1
000079C4  0C0E40                                   11473+         DC    HL3'790080'             0, I3, RXB
000079C7  5F                                       11474+         DC    X'5F'

000079C8  B98D 0020                                11476+         EPSW  R2,R0             exptract psw
000079CC  5020 8E9C                     0000109C   11477+         ST    R2,CCPSW                to save CC
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000079D0  07FB                                     11478+         BR    R11                 return
000079D4                                           11479+RE372    DC    0F
000079D4                                           11480+         DROP  R5
000079D4  0FF00000 00000000                        11481          DC    XL16'0FF00000000000000000000000011000'   V1 source
000079DC  00000000 00011000
                                                   11482
                                                   11483          VRR_G VTPX,X'C0E4',2
000079E8                                           11484+         DS    0FD
000079E8                      000079E8             11485+         USING *,R5                base for test data and test routine
000079E8  00007A04                                 11486+T373     DC    A(X373)             address of test routine
000079EC  0175                                     11487+         DC    H'373'              test number
000079EE  00                                       11488+         DC    XL1'00'
000079EF  02                                       11489+         DC    HL1'2'              cc
000079F0  0D                                       11490+         DC    HL1'13'             cc failed mask
000079F1  E5E3D7E7 40404040                        11491+         DC    CL8'VTPX'           instruction name
000079FC  00000010                                 11492+         DC    A(16)               result length
00007A00  00007A1C                                 11493+REA373   DC    A(RE373)            result address
                                                   11494+*                                   INSTRUCTION UNDER TEST ROUTINE
00007A04                                           11495+X373     DS    0F
00007A04  E710 5034 0006                00007A1C   11496+         VL    V1,RE373            get V1 source

00007A0A                                           11499+         DS    0H                        E65F VTP - Vector Test Decimal
00007A0A  E6                                       11500+         DC    X'E6'
00007A0B  01                                       11501+         DC    X'01'                     v1
00007A0C  0C0E40                                   11502+         DC    HL3'790080'               0, I3, RXB
00007A0F  5F                                       11503+         DC    X'5F'

00007A10  B98D 0020                                11505+         EPSW  R2,R0               exptract psw
00007A14  5020 8E9C                     0000109C   11506+         ST    R2,CCPSW                to save CC
00007A18  07FB                                     11507+         BR    R11                 return
00007A1C                                           11508+RE373    DC    0F
00007A1C                                           11509+         DROP  R5
00007A1C  0FF00000 00000000                        11510          DC    XL16'0FF00000000000000000000001F00F'   V1 source
00007A24  00000000 0001F00F
                                                   11511
                                                   11512          VRR_G VTPX,X'C0E4',3
00007A30                                           11513+         DS    0FD
00007A30                      00007A30             11514+         USING *,R5                base for test data and test routine
00007A30  00007A4C                                 11515+T374     DC    A(X374)             address of test routine
00007A34  0176                                     11516+         DC    H'374'              test number
00007A36  00                                       11517+         DC    XL1'00'
00007A37  03                                       11518+         DC    HL1'3'              cc
00007A38  0E                                       11519+         DC    HL1'14'             cc failed mask
00007A39  E5E3D7E7 40404040                        11520+         DC    CL8'VTPX'           instruction name
00007A44  00000010                                 11521+         DC    A(16)               result length
00007A48  00007A64                                 11522+REA374   DC    A(RE374)            result address
                                                   11523+*                                   INSTRUCTION UNDER TEST ROUTINE
00007A4C                                           11524+X374     DS    0F
00007A4C  E710 5034 0006                00007A64   11525+         VL    V1,RE374            get V1 source

00007A52                                           11528+         DS    0H                        E65F VTP - Vector Test Decimal
00007A52  E6                                       11529+         DC    X'E6'
00007A53  01                                       11530+         DC    X'01'                     v1
00007A54  0C0E40                                   11531+         DC    HL3'790080'               0, I3, RXB
00007A57  5F                                       11532+         DC    X'5F'
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007A58  B98D 0020                               11534+         EPSW  R2,R0              exptract psw
00007A5C  5020 8E9C                     0000109C  11535+         ST    R2,CCPSW              to save CC
00007A60  07FB                                    11536+         BR    R11               return
00007A64                                          11537+RE374    DC    0F
00007A64                                          11538+         DROP  R5
00007A64  0FF00000 00000000                       11539          DC    XL16'0FF00000000000000000000000111009'   V1 source
00007A6C  00000000 00111009
                                                  11540
                                                  11541          VRR_G VTPX,X'C0FE',2
00007A78                                          11542+         DS    0FD
00007A78                        00007A78          11543+         USING *,R5              base for test data and test routine
00007A78  00007A94                                11544+T375     DC    A(X375)           address of test routine
00007A7C  0177                                    11545+         DC    H'375'            test number
00007A7E  00                                      11546+         DC    XL1'00'
00007A7F  02                                      11547+         DC    HL1'2'            cc
00007A80  0D                                      11548+         DC    HL1'13'           cc failed mask
00007A81  E5E3D7E7 40404040                       11549+         DC    CL8'VTPX'         instruction name
00007A8C  00000010                                11550+         DC    A(16)             result length
00007A90  00007AAC                                11551+REA375   DC    A(RE375)          result address
                                                  11552+*                                  INSTRUCTION UNDER TEST ROUTINE
00007A94                                          11553+X375     DS    0F
00007A94  E710 5034 0006                00007AAC  11554+         VL    V1,RE375          get V1 source

00007A9A                                          11557+         DS    0H                     E65F VTP - Vector Test Decimal
00007A9A  E6                                      11558+         DC    X'E6'
00007A9B  01                                      11559+         DC    X'01'                  v1
00007A9C  0C0FE0                                  11560+         DC    HL3'790496'             0, I3, RXB
00007A9F  5F                                      11561+         DC    X'5F'

00007AA0  B98D 0020                               11563+         EPSW  R2,R0              exptract psw
00007AA4  5020 8E9C                     0000109C  11564+         ST    R2,CCPSW              to save CC
00007AA8  07FB                                    11565+         BR    R11               return
00007AAC                                          11566+RE375    DC    0F
00007AAC                                          11567+         DROP  R5
00007AAC  10000000 00000000                       11568          DC    XL16'10000000000000000000000000000000C'   V1 source
00007AB4  00000000 0000000C
                                                  11569
                                                  11570
                                                  11571
                                                  11572
                                                  11573
00007ABC  00000000                                11574          DC    F'0'     END OF TABLE
00007AC0  00000000                                11575          DC    F'0'
                                                  11576 *
                                                  11577 * table of pointers to individual load test
                                                  11578 *
00007AC4                                          11579 E6TESTS  DS    0F
                                                  11580          PTTABLE
00007AC4                                          11581+TTABLE   DS    0F
00007AC4  00001148                                11582+         DC    A(T1)             address of test
00007AC8  00001190                                11583+         DC    A(T2)             address of test
00007ACC  000011D8                                11584+         DC    A(T3)             address of test
00007AD0  00001220                                11585+         DC    A(T4)             address of test
00007AD4  00001268                                11586+         DC    A(T5)             address of test
00007AD8  000012B0                                11587+         DC    A(T6)             address of test
00007ADC  000012F8                                11588+         DC    A(T7)             address of test
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007AE0  00001340                          11589+         DC    A(T8)             address of test
00007AE4  00001388                          11590+         DC    A(T9)             address of test
00007AE8  000013D0                          11591+         DC    A(T10)            address of test
00007AEC  00001418                          11592+         DC    A(T11)            address of test
00007AF0  00001460                          11593+         DC    A(T12)            address of test
00007AF4  000014A8                          11594+         DC    A(T13)            address of test
00007AF8  000014F0                          11595+         DC    A(T14)            address of test
00007AFC  00001538                          11596+         DC    A(T15)            address of test
00007B00  00001580                          11597+         DC    A(T16)            address of test
00007B04  000015C8                          11598+         DC    A(T17)            address of test
00007B08  00001610                          11599+         DC    A(T18)            address of test
00007B0C  00001658                          11600+         DC    A(T19)            address of test
00007B10  000016A0                          11601+         DC    A(T20)            address of test
00007B14  000016E8                          11602+         DC    A(T21)            address of test
00007B18  00001730                          11603+         DC    A(T22)            address of test
00007B1C  00001778                          11604+         DC    A(T23)            address of test
00007B20  000017C0                          11605+         DC    A(T24)            address of test
00007B24  00001808                          11606+         DC    A(T25)            address of test
00007B28  00001850                          11607+         DC    A(T26)            address of test
00007B2C  00001898                          11608+         DC    A(T27)            address of test
00007B30  000018E0                          11609+         DC    A(T28)            address of test
00007B34  00001928                          11610+         DC    A(T29)            address of test
00007B38  00001970                          11611+         DC    A(T30)            address of test
00007B3C  000019B8                          11612+         DC    A(T31)            address of test
00007B40  00001A00                          11613+         DC    A(T32)            address of test
00007B44  00001A48                          11614+         DC    A(T33)            address of test
00007B48  00001A90                          11615+         DC    A(T34)            address of test
00007B4C  00001AD8                          11616+         DC    A(T35)            address of test
00007B50  00001B20                          11617+         DC    A(T36)            address of test
00007B54  00001B68                          11618+         DC    A(T37)            address of test
00007B58  00001BB0                          11619+         DC    A(T38)            address of test
00007B5C  00001BF8                          11620+         DC    A(T39)            address of test
00007B60  00001C40                          11621+         DC    A(T40)            address of test
00007B64  00001C88                          11622+         DC    A(T41)            address of test
00007B68  00001CD0                          11623+         DC    A(T42)            address of test
00007B6C  00001D18                          11624+         DC    A(T43)            address of test
00007B70  00001D60                          11625+         DC    A(T44)            address of test
00007B74  00001DA8                          11626+         DC    A(T45)            address of test
00007B78  00001DF0                          11627+         DC    A(T46)            address of test
00007B7C  00001E38                          11628+         DC    A(T47)            address of test
00007B80  00001E80                          11629+         DC    A(T48)            address of test
00007B84  00001EC8                          11630+         DC    A(T49)            address of test
00007B88  00001F10                          11631+         DC    A(T50)            address of test
00007B8C  00001F58                          11632+         DC    A(T51)            address of test
00007B90  00001FA0                          11633+         DC    A(T52)            address of test
00007B94  00001FE8                          11634+         DC    A(T53)            address of test
00007B98  00002030                          11635+         DC    A(T54)            address of test
00007B9C  00002078                          11636+         DC    A(T55)            address of test
00007BA0  000020C0                          11637+         DC    A(T56)            address of test
00007BA4  00002108                          11638+         DC    A(T57)            address of test
00007BA8  00002150                          11639+         DC    A(T58)            address of test
00007BAC  00002198                          11640+         DC    A(T59)            address of test
00007BB0  000021E0                          11641+         DC    A(T60)            address of test
00007BB4  00002228                          11642+         DC    A(T61)            address of test
00007BB8  00002270                          11643+         DC    A(T62)            address of test
00007BBC  000022B8                          11644+         DC    A(T63)            address of test
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007BC0  00002300                          11645+         DC    A(T64)            address of test
00007BC4  00002348                          11646+         DC    A(T65)            address of test
00007BC8  00002390                          11647+         DC    A(T66)            address of test
00007BCC  000023D8                          11648+         DC    A(T67)            address of test
00007BD0  00002420                          11649+         DC    A(T68)            address of test
00007BD4  00002468                          11650+         DC    A(T69)            address of test
00007BD8  000024B0                          11651+         DC    A(T70)            address of test
00007BDC  000024F8                          11652+         DC    A(T71)            address of test
00007BE0  00002540                          11653+         DC    A(T72)            address of test
00007BE4  00002588                          11654+         DC    A(T73)            address of test
00007BE8  000025D0                          11655+         DC    A(T74)            address of test
00007BEC  00002618                          11656+         DC    A(T75)            address of test
00007BF0  00002660                          11657+         DC    A(T76)            address of test
00007BF4  000026A8                          11658+         DC    A(T77)            address of test
00007BF8  000026F0                          11659+         DC    A(T78)            address of test
00007BFC  00002738                          11660+         DC    A(T79)            address of test
00007C00  00002780                          11661+         DC    A(T80)            address of test
00007C04  000027C8                          11662+         DC    A(T81)            address of test
00007C08  00002810                          11663+         DC    A(T82)            address of test
00007C0C  00002858                          11664+         DC    A(T83)            address of test
00007C10  000028A0                          11665+         DC    A(T84)            address of test
00007C14  000028E8                          11666+         DC    A(T85)            address of test
00007C18  00002930                          11667+         DC    A(T86)            address of test
00007C1C  00002978                          11668+         DC    A(T87)            address of test
00007C20  000029C0                          11669+         DC    A(T88)            address of test
00007C24  00002A08                          11670+         DC    A(T89)            address of test
00007C28  00002A50                          11671+         DC    A(T90)            address of test
00007C2C  00002A98                          11672+         DC    A(T91)            address of test
00007C30  00002AE0                          11673+         DC    A(T92)            address of test
00007C34  00002B28                          11674+         DC    A(T93)            address of test
00007C38  00002B70                          11675+         DC    A(T94)            address of test
00007C3C  00002BB8                          11676+         DC    A(T95)            address of test
00007C40  00002C00                          11677+         DC    A(T96)            address of test
00007C44  00002C48                          11678+         DC    A(T97)            address of test
00007C48  00002C90                          11679+         DC    A(T98)            address of test
00007C4C  00002CD8                          11680+         DC    A(T99)            address of test
00007C50  00002D20                          11681+         DC    A(T100)           address of test
00007C54  00002D68                          11682+         DC    A(T101)           address of test
00007C58  00002DB0                          11683+         DC    A(T102)           address of test
00007C5C  00002DF8                          11684+         DC    A(T103)           address of test
00007C60  00002E40                          11685+         DC    A(T104)           address of test
00007C64  00002E88                          11686+         DC    A(T105)           address of test
00007C68  00002ED0                          11687+         DC    A(T106)           address of test
00007C6C  00002F18                          11688+         DC    A(T107)           address of test
00007C70  00002F60                          11689+         DC    A(T108)           address of test
00007C74  00002FA8                          11690+         DC    A(T109)           address of test
00007C78  00002FF0                          11691+         DC    A(T110)           address of test
00007C7C  00003038                          11692+         DC    A(T111)           address of test
00007C80  00003080                          11693+         DC    A(T112)           address of test
00007C84  000030C8                          11694+         DC    A(T113)           address of test
00007C88  00003110                          11695+         DC    A(T114)           address of test
00007C8C  00003158                          11696+         DC    A(T115)           address of test
00007C90  000031A0                          11697+         DC    A(T116)           address of test
00007C94  000031E8                          11698+         DC    A(T117)           address of test
00007C98  00003230                          11699+         DC    A(T118)           address of test
00007C9C  00003278                          11700+         DC    A(T119)           address of test
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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007CA0  000032C0                          11701+         DC    A(T120)           address of test
00007CA4  00003308                          11702+         DC    A(T121)           address of test
00007CA8  00003350                          11703+         DC    A(T122)           address of test
00007CAC  00003398                          11704+         DC    A(T123)           address of test
00007CB0  000033E0                          11705+         DC    A(T124)           address of test
00007CB4  00003428                          11706+         DC    A(T125)           address of test
00007CB8  00003470                          11707+         DC    A(T126)           address of test
00007CBC  000034B8                          11708+         DC    A(T127)           address of test
00007CC0  00003500                          11709+         DC    A(T128)           address of test
00007CC4  00003548                          11710+         DC    A(T129)           address of test
00007CC8  00003590                          11711+         DC    A(T130)           address of test
00007CCC  000035D8                          11712+         DC    A(T131)           address of test
00007CD0  00003620                          11713+         DC    A(T132)           address of test
00007CD4  00003668                          11714+         DC    A(T133)           address of test
00007CD8  000036B0                          11715+         DC    A(T134)           address of test
00007CDC  000036F8                          11716+         DC    A(T135)           address of test
00007CE0  00003740                          11717+         DC    A(T136)           address of test
00007CE4  00003788                          11718+         DC    A(T137)           address of test
00007CE8  000037D0                          11719+         DC    A(T138)           address of test
00007CEC  00003818                          11720+         DC    A(T139)           address of test
00007CF0  00003860                          11721+         DC    A(T140)           address of test
00007CF4  000038A8                          11722+         DC    A(T141)           address of test
00007CF8  000038F0                          11723+         DC    A(T142)           address of test
00007CFC  00003938                          11724+         DC    A(T143)           address of test
00007D00  00003980                          11725+         DC    A(T144)           address of test
00007D04  000039C8                          11726+         DC    A(T145)           address of test
00007D08  00003A10                          11727+         DC    A(T146)           address of test
00007D0C  00003A58                          11728+         DC    A(T147)           address of test
00007D10  00003AA0                          11729+         DC    A(T148)           address of test
00007D14  00003AE8                          11730+         DC    A(T149)           address of test
00007D18  00003B30                          11731+         DC    A(T150)           address of test
00007D1C  00003B78                          11732+         DC    A(T151)           address of test
00007D20  00003BC0                          11733+         DC    A(T152)           address of test
00007D24  00003C08                          11734+         DC    A(T153)           address of test
00007D28  00003C50                          11735+         DC    A(T154)           address of test
00007D2C  00003C98                          11736+         DC    A(T155)           address of test
00007D30  00003CE0                          11737+         DC    A(T156)           address of test
00007D34  00003D28                          11738+         DC    A(T157)           address of test
00007D38  00003D70                          11739+         DC    A(T158)           address of test
00007D3C  00003DB8                          11740+         DC    A(T159)           address of test
00007D40  00003E00                          11741+         DC    A(T160)           address of test
00007D44  00003E48                          11742+         DC    A(T161)           address of test
00007D48  00003E90                          11743+         DC    A(T162)           address of test
00007D4C  00003ED8                          11744+         DC    A(T163)           address of test
00007D50  00003F20                          11745+         DC    A(T164)           address of test
00007D54  00003F68                          11746+         DC    A(T165)           address of test
00007D58  00003FB0                          11747+         DC    A(T166)           address of test
00007D5C  00003FF8                          11748+         DC    A(T167)           address of test
00007D60  00004040                          11749+         DC    A(T168)           address of test
00007D64  00004088                          11750+         DC    A(T169)           address of test
00007D68  000040D0                          11751+         DC    A(T170)           address of test
00007D6C  00004118                          11752+         DC    A(T171)           address of test
00007D70  00004160                          11753+         DC    A(T172)           address of test
00007D74  000041A8                          11754+         DC    A(T173)           address of test
00007D78  000041F0                          11755+         DC    A(T174)           address of test
00007D7C  00004238                          11756+         DC    A(T175)           address of test
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007D80  00004280                          11757+         DC    A(T176)           address of test
00007D84  000042C8                          11758+         DC    A(T177)           address of test
00007D88  00004310                          11759+         DC    A(T178)           address of test
00007D8C  00004358                          11760+         DC    A(T179)           address of test
00007D90  000043A0                          11761+         DC    A(T180)           address of test
00007D94  000043E8                          11762+         DC    A(T181)           address of test
00007D98  00004430                          11763+         DC    A(T182)           address of test
00007D9C  00004478                          11764+         DC    A(T183)           address of test
00007DA0  000044C0                          11765+         DC    A(T184)           address of test
00007DA4  00004508                          11766+         DC    A(T185)           address of test
00007DA8  00004550                          11767+         DC    A(T186)           address of test
00007DAC  00004598                          11768+         DC    A(T187)           address of test
00007DB0  000045E0                          11769+         DC    A(T188)           address of test
00007DB4  00004628                          11770+         DC    A(T189)           address of test
00007DB8  00004670                          11771+         DC    A(T190)           address of test
00007DBC  000046B8                          11772+         DC    A(T191)           address of test
00007DC0  00004700                          11773+         DC    A(T192)           address of test
00007DC4  00004748                          11774+         DC    A(T193)           address of test
00007DC8  00004790                          11775+         DC    A(T194)           address of test
00007DCC  000047D8                          11776+         DC    A(T195)           address of test
00007DD0  00004820                          11777+         DC    A(T196)           address of test
00007DD4  00004868                          11778+         DC    A(T197)           address of test
00007DD8  000048B0                          11779+         DC    A(T198)           address of test
00007DDC  000048F8                          11780+         DC    A(T199)           address of test
00007DE0  00004940                          11781+         DC    A(T200)           address of test
00007DE4  00004988                          11782+         DC    A(T201)           address of test
00007DE8  000049D0                          11783+         DC    A(T202)           address of test
00007DEC  00004A18                          11784+         DC    A(T203)           address of test
00007DF0  00004A60                          11785+         DC    A(T204)           address of test
00007DF4  00004AA8                          11786+         DC    A(T205)           address of test
00007DF8  00004AF0                          11787+         DC    A(T206)           address of test
00007DFC  00004B38                          11788+         DC    A(T207)           address of test
00007E00  00004B80                          11789+         DC    A(T208)           address of test
00007E04  00004BC8                          11790+         DC    A(T209)           address of test
00007E08  00004C10                          11791+         DC    A(T210)           address of test
00007E0C  00004C58                          11792+         DC    A(T211)           address of test
00007E10  00004CA0                          11793+         DC    A(T212)           address of test
00007E14  00004CE8                          11794+         DC    A(T213)           address of test
00007E18  00004D30                          11795+         DC    A(T214)           address of test
00007E1C  00004D78                          11796+         DC    A(T215)           address of test
00007E20  00004DC0                          11797+         DC    A(T216)           address of test
00007E24  00004E08                          11798+         DC    A(T217)           address of test
00007E28  00004E50                          11799+         DC    A(T218)           address of test
00007E2C  00004E98                          11800+         DC    A(T219)           address of test
00007E30  00004EE0                          11801+         DC    A(T220)           address of test
00007E34  00004F28                          11802+         DC    A(T221)           address of test
00007E38  00004F70                          11803+         DC    A(T222)           address of test
00007E3C  00004FB8                          11804+         DC    A(T223)           address of test
00007E40  00005000                          11805+         DC    A(T224)           address of test
00007E44  00005048                          11806+         DC    A(T225)           address of test
00007E48  00005090                          11807+         DC    A(T226)           address of test
00007E4C  000050D8                          11808+         DC    A(T227)           address of test
00007E50  00005120                          11809+         DC    A(T228)           address of test
00007E54  00005168                          11810+         DC    A(T229)           address of test
00007E58  000051B0                          11811+         DC    A(T230)           address of test
00007E5C  000051F8                          11812+         DC    A(T231)           address of test
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007E60  00005240                          11813+         DC    A(T232)           address of test
00007E64  00005288                          11814+         DC    A(T233)           address of test
00007E68  000052D0                          11815+         DC    A(T234)           address of test
00007E6C  00005318                          11816+         DC    A(T235)           address of test
00007E70  00005360                          11817+         DC    A(T236)           address of test
00007E74  000053A8                          11818+         DC    A(T237)           address of test
00007E78  000053F0                          11819+         DC    A(T238)           address of test
00007E7C  00005438                          11820+         DC    A(T239)           address of test
00007E80  00005480                          11821+         DC    A(T240)           address of test
00007E84  000054C8                          11822+         DC    A(T241)           address of test
00007E88  00005510                          11823+         DC    A(T242)           address of test
00007E8C  00005558                          11824+         DC    A(T243)           address of test
00007E90  000055A0                          11825+         DC    A(T244)           address of test
00007E94  000055E8                          11826+         DC    A(T245)           address of test
00007E98  00005630                          11827+         DC    A(T246)           address of test
00007E9C  00005678                          11828+         DC    A(T247)           address of test
00007EA0  000056C0                          11829+         DC    A(T248)           address of test
00007EA4  00005708                          11830+         DC    A(T249)           address of test
00007EA8  00005750                          11831+         DC    A(T250)           address of test
00007EAC  00005798                          11832+         DC    A(T251)           address of test
00007EB0  000057E0                          11833+         DC    A(T252)           address of test
00007EB4  00005828                          11834+         DC    A(T253)           address of test
00007EB8  00005870                          11835+         DC    A(T254)           address of test
00007EBC  000058B8                          11836+         DC    A(T255)           address of test
00007EC0  00005900                          11837+         DC    A(T256)           address of test
00007EC4  00005948                          11838+         DC    A(T257)           address of test
00007EC8  00005990                          11839+         DC    A(T258)           address of test
00007ECC  000059D8                          11840+         DC    A(T259)           address of test
00007ED0  00005A20                          11841+         DC    A(T260)           address of test
00007ED4  00005A68                          11842+         DC    A(T261)           address of test
00007ED8  00005AB0                          11843+         DC    A(T262)           address of test
00007EDC  00005AF8                          11844+         DC    A(T263)           address of test
00007EE0  00005B40                          11845+         DC    A(T264)           address of test
00007EE4  00005B88                          11846+         DC    A(T265)           address of test
00007EE8  00005BD0                          11847+         DC    A(T266)           address of test
00007EEC  00005C18                          11848+         DC    A(T267)           address of test
00007EF0  00005C60                          11849+         DC    A(T268)           address of test
00007EF4  00005CA8                          11850+         DC    A(T269)           address of test
00007EF8  00005CF0                          11851+         DC    A(T270)           address of test
00007EFC  00005D38                          11852+         DC    A(T271)           address of test
00007F00  00005D80                          11853+         DC    A(T272)           address of test
00007F04  00005DC8                          11854+         DC    A(T273)           address of test
00007F08  00005E10                          11855+         DC    A(T274)           address of test
00007F0C  00005E58                          11856+         DC    A(T275)           address of test
00007F10  00005EA0                          11857+         DC    A(T276)           address of test
00007F14  00005EE8                          11858+         DC    A(T277)           address of test
00007F18  00005F30                          11859+         DC    A(T278)           address of test
00007F1C  00005F78                          11860+         DC    A(T279)           address of test
00007F20  00005FC0                          11861+         DC    A(T280)           address of test
00007F24  00006008                          11862+         DC    A(T281)           address of test
00007F28  00006050                          11863+         DC    A(T282)           address of test
00007F2C  00006098                          11864+         DC    A(T283)           address of test
00007F30  000060E0                          11865+         DC    A(T284)           address of test
00007F34  00006128                          11866+         DC    A(T285)           address of test
00007F38  00006170                          11867+         DC    A(T286)           address of test
00007F3C  000061B8                          11868+         DC    A(T287)           address of test
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00007F40  00006200                          11869+         DC    A(T288)           address of test
00007F44  00006248                          11870+         DC    A(T289)           address of test
00007F48  00006290                          11871+         DC    A(T290)           address of test
00007F4C  000062D8                          11872+         DC    A(T291)           address of test
00007F50  00006320                          11873+         DC    A(T292)           address of test
00007F54  00006368                          11874+         DC    A(T293)           address of test
00007F58  000063B0                          11875+         DC    A(T294)           address of test
00007F5C  000063F8                          11876+         DC    A(T295)           address of test
00007F60  00006440                          11877+         DC    A(T296)           address of test
00007F64  00006488                          11878+         DC    A(T297)           address of test
00007F68  000064D0                          11879+         DC    A(T298)           address of test
00007F6C  00006518                          11880+         DC    A(T299)           address of test
00007F70  00006560                          11881+         DC    A(T300)           address of test
00007F74  000065A8                          11882+         DC    A(T301)           address of test
00007F78  000065F0                          11883+         DC    A(T302)           address of test
00007F7C  00006638                          11884+         DC    A(T303)           address of test
00007F80  00006680                          11885+         DC    A(T304)           address of test
00007F84  000066C8                          11886+         DC    A(T305)           address of test
00007F88  00006710                          11887+         DC    A(T306)           address of test
00007F8C  00006758                          11888+         DC    A(T307)           address of test
00007F90  000067A0                          11889+         DC    A(T308)           address of test
00007F94  000067E8                          11890+         DC    A(T309)           address of test
00007F98  00006830                          11891+         DC    A(T310)           address of test
00007F9C  00006878                          11892+         DC    A(T311)           address of test
00007FA0  000068C0                          11893+         DC    A(T312)           address of test
00007FA4  00006908                          11894+         DC    A(T313)           address of test
00007FA8  00006950                          11895+         DC    A(T314)           address of test
00007FAC  00006998                          11896+         DC    A(T315)           address of test
00007FB0  000069E0                          11897+         DC    A(T316)           address of test
00007FB4  00006A28                          11898+         DC    A(T317)           address of test
00007FB8  00006A70                          11899+         DC    A(T318)           address of test
00007FBC  00006AB8                          11900+         DC    A(T319)           address of test
00007FC0  00006B00                          11901+         DC    A(T320)           address of test
00007FC4  00006B48                          11902+         DC    A(T321)           address of test
00007FC8  00006B90                          11903+         DC    A(T322)           address of test
00007FCC  00006BD8                          11904+         DC    A(T323)           address of test
00007FD0  00006C20                          11905+         DC    A(T324)           address of test
00007FD4  00006C68                          11906+         DC    A(T325)           address of test
00007FD8  00006CB0                          11907+         DC    A(T326)           address of test
00007FDC  00006CF8                          11908+         DC    A(T327)           address of test
00007FE0  00006D40                          11909+         DC    A(T328)           address of test
00007FE4  00006D88                          11910+         DC    A(T329)           address of test
00007FE8  00006DD0                          11911+         DC    A(T330)           address of test
00007FEC  00006E18                          11912+         DC    A(T331)           address of test
00007FF0  00006E60                          11913+         DC    A(T332)           address of test
00007FF4  00006EA8                          11914+         DC    A(T333)           address of test
00007FF8  00006EF0                          11915+         DC    A(T334)           address of test
00007FFC  00006F38                          11916+         DC    A(T335)           address of test
00008000  00006F80                          11917+         DC    A(T336)           address of test
00008004  00006FC8                          11918+         DC    A(T337)           address of test
00008008  00007010                          11919+         DC    A(T338)           address of test
0000800C  00007058                          11920+         DC    A(T339)           address of test
00008010  000070A0                          11921+         DC    A(T340)           address of test
00008014  000070E8                          11922+         DC    A(T341)           address of test
00008018  00007130                          11923+         DC    A(T342)           address of test
0000801C  00007178                          11924+         DC    A(T343)           address of test
```

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  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00008020  000071C0                          11925+         DC    A(T344)           address of test
00008024  00007208                          11926+         DC    A(T345)           address of test
00008028  00007250                          11927+         DC    A(T346)           address of test
0000802C  00007298                          11928+         DC    A(T347)           address of test
00008030  000072E0                          11929+         DC    A(T348)           address of test
00008034  00007328                          11930+         DC    A(T349)           address of test
00008038  00007370                          11931+         DC    A(T350)           address of test
0000803C  000073B8                          11932+         DC    A(T351)           address of test
00008040  00007400                          11933+         DC    A(T352)           address of test
00008044  00007448                          11934+         DC    A(T353)           address of test
00008048  00007490                          11935+         DC    A(T354)           address of test
0000804C  000074D8                          11936+         DC    A(T355)           address of test
00008050  00007520                          11937+         DC    A(T356)           address of test
00008054  00007568                          11938+         DC    A(T357)           address of test
00008058  000075B0                          11939+         DC    A(T358)           address of test
0000805C  000075F8                          11940+         DC    A(T359)           address of test
00008060  00007640                          11941+         DC    A(T360)           address of test
00008064  00007688                          11942+         DC    A(T361)           address of test
00008068  000076D0                          11943+         DC    A(T362)           address of test
0000806C  00007718                          11944+         DC    A(T363)           address of test
00008070  00007760                          11945+         DC    A(T364)           address of test
00008074  000077A8                          11946+         DC    A(T365)           address of test
00008078  000077F0                          11947+         DC    A(T366)           address of test
0000807C  00007838                          11948+         DC    A(T367)           address of test
00008080  00007880                          11949+         DC    A(T368)           address of test
00008084  000078C8                          11950+         DC    A(T369)           address of test
00008088  00007910                          11951+         DC    A(T370)           address of test
0000808C  00007958                          11952+         DC    A(T371)           address of test
00008090  000079A0                          11953+         DC    A(T372)           address of test
00008094  000079E8                          11954+         DC    A(T373)           address of test
00008098  00007A30                          11955+         DC    A(T374)           address of test
0000809C  00007A78                          11956+         DC    A(T375)           address of test
                                            11957+*
000080A0  00000000                          11958+         DC    A(0)              END OF TABLE
000080A4  00000000                          11959+         DC    A(0)
                                            11960
000080A8  00000000                          11961          DC    F'0'     END OF TABLE
000080AC  00000000                          11962          DC    F'0'
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                         11964 ************************************************************************
                                         11965 *        Register equates
                                         11966 ************************************************************************


                             00000000  00000001  11968 R0       EQU   0
                             00000001  00000001  11969 R1       EQU   1
                             00000002  00000001  11970 R2       EQU   2
                             00000003  00000001  11971 R3       EQU   3
                             00000004  00000001  11972 R4       EQU   4
                             00000005  00000001  11973 R5       EQU   5
                             00000006  00000001  11974 R6       EQU   6
                             00000007  00000001  11975 R7       EQU   7
                             00000008  00000001  11976 R8       EQU   8
                             00000009  00000001  11977 R9       EQU   9
                             0000000A  00000001  11978 R10      EQU   10
                             0000000B  00000001  11979 R11      EQU   11
                             0000000C  00000001  11980 R12      EQU   12
                             0000000D  00000001  11981 R13      EQU   13
                             0000000E  00000001  11982 R14      EQU   14
                             0000000F  00000001  11983 R15      EQU   15


                                         11985 ************************************************************************
                                         11986 *        Register equates
                                         11987 ************************************************************************


                             00000000  00000001  11989 V0       EQU   0
                             00000001  00000001  11990 V1       EQU   1
                             00000002  00000001  11991 V2       EQU   2
                             00000003  00000001  11992 V3       EQU   3
                             00000004  00000001  11993 V4       EQU   4
                             00000005  00000001  11994 V5       EQU   5
                             00000006  00000001  11995 V6       EQU   6
                             00000007  00000001  11996 V7       EQU   7
                             00000008  00000001  11997 V8       EQU   8
                             00000009  00000001  11998 V9       EQU   9
                             0000000A  00000001  11999 V10      EQU   10
                             0000000B  00000001  12000 V11      EQU   11
                             0000000C  00000001  12001 V12      EQU   12
                             0000000D  00000001  12002 V13      EQU   13
                             0000000E  00000001  12003 V14      EQU   14
                             0000000F  00000001  12004 V15      EQU   15
                             00000010  00000001  12005 V16      EQU   16
                             00000011  00000001  12006 V17      EQU   17
                             00000012  00000001  12007 V18      EQU   18
                             00000013  00000001  12008 V19      EQU   19
                             00000014  00000001  12009 V20      EQU   20
                             00000015  00000001  12010 V21      EQU   21
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  LOC         OBJECT CODE       ADDR1     ADDR2     STMT

                               00000016  00000001  12011 V22      EQU   22
                               00000017  00000001  12012 V23      EQU   23
                               00000018  00000001  12013 V24      EQU   24
                               00000019  00000001  12014 V25      EQU   25
                               0000001A  00000001  12015 V26      EQU   26
                               0000001B  00000001  12016 V27      EQU   27
                               0000001C  00000001  12017 V28      EQU   28
                               0000001D  00000001  12018 V29      EQU   29
                               0000001E  00000001  12019 V30      EQU   30
                               0000001F  00000001  12020 V31      EQU   31
                                                   12021
                                                   12022          END
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SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
BEGIN	I	00000200	2	157	122	153	154	155							
CC	U	00000007	1	498	289										
CCFOUND	X	000010A4	1	471	276	296									
CCMASK	U	00000008	1	499	256										
CCMSG	U	000003CA	1	269	263										
CCPRTEXP	C	0000104B	1	451	293										
CCPRTGOT	C	0000105B	1	454	300										
CCPRTLINE	C	00001008	16	446	456	303									
CCPRTLNG	U	00000055	1	456	302										
CCPRTNAME	C	00001035	8	449	286										
CCPRTNUM	C	00001018	3	447	284										
CCPSW	F	0000109C	4	470	273	658	680	703	725	748	770	793	815	856	885
					914	943	972	1001	1030	1059	1089	1118	1147	1176	1205
					1234	1263	1292	1321	1351	1380	1409	1438	1467	1496	1525
					1554	1583	1613	1642	1671	1700	1729	1758	1787	1816	1845
					1874	1907	1936	1965	1994	2023	2052	2081	2110	2141	2170
					2199	2229	2258	2287	2316	2345	2374	2403	2432	2461	2490
					2521	2550	2579	2609	2638	2667	2696	2725	2754	2783	2812
					2841	2870	2901	2930	2959	2989	3018	3047	3076	3105	3134
					3163	3192	3221	3250	3279	3312	3341	3370	3399	3428	3457
					3486	3515	3546	3575	3605	3634	3663	3692	3721	3750	3779
					3808	3837	3868	3897	3927	3956	3985	4014	4043	4072	4101
					4130	4159	4190	4219	4249	4278	4307	4336	4365	4394	4423
					4452	4481	4510	4543	4572	4601	4630	4659	4688	4717	4746
					4777	4806	4835	4865	4894	4923	4952	4981	5010	5039	5068
					5097	5126	5157	5186	5215	5245	5274	5303	5332	5361	5390
					5419	5448	5477	5506	5537	5566	5595	5625	5654	5683	5712
					5741	5770	5799	5828	5857	5886	5915	5947	5976	6005	6034
					6063	6092	6121	6150	6181	6210	6239	6269	6298	6327	6356
					6385	6414	6443	6472	6501	6532	6561	6590	6619	6649	6678
					6707	6736	6765	6794	6823	6852	6881	6912	6941	6970	6999
					7029	7058	7087	7116	7145	7174	7203	7232	7261	7290	7323
					7352	7381	7410	7439	7468	7497	7526	7557	7586	7615	7645
					7674	7703	7732	7761	7790	7819	7848	7877	7908	7937	7966
					7995	8025	8054	8083	8112	8141	8170	8199	8228	8257	8288
					8317	8346	8375	8405	8434	8463	8492	8521	8550	8579	8608
					8637	8666	8699	8728	8757	8786	8815	8844	8873	8902	8933
					8962	8991	9021	9050	9079	9108	9137	9166	9195	9224	9253
					9284	9313	9342	9371	9401	9430	9459	9488	9517	9546	9575
					9604	9633	9664	9693	9722	9751	9781	9810	9839	9868	9897
					9926	9955	9984	10013	10042	10076	10105	10134	10163	10192	10221
					10250	10279	10310	10339	10368	10397	10427	10456	10485	10514	10543
					10572	10601	10630	10659	10688	10719	10748	10777	10806	10835	10865
					10894	10923	10952	10981	11010	11039	11068	11097	11126	11157	11186
					11215	11244	11274	11303	11332	11361	11390	11419	11448	11477	11506
					11535	11564									
CTLR0	F	00000584	4	407	167	168	169	170							
DECNUM	C	00001089	16	466	281	283	290	292	297	299					
E6TEST	4	00000000	28	494	251										
E6TESTS	F	00007AC4	4	11579	242										
EDIT	X	0000105D	18	461	282	291	298								
ENDTEST	U	00000456	1	321	247										
EOJ	I	00000568	4	397	202	235	324								
EOJPSW	D	00000558	8	395	397										
FAILCONT	U	00000446	1	311	306										
FAILED	F	00001000	4	437	313	322									

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
FAILPSW	D	00000570	8	399	401										
FAILTEST	I	00000580	4	401	325										
FB0001	F	00000288	8	186	190	191	193								
FB0002	F	00000348	8	219	223	224	226								
IMAGE	1	00000000	32944	0											
K	U	00000400	1	420	421	422	423								
K64	U	00010000	1	422											
MB	U	00100000	1	423											
MSG	I	000004A0	4	357	201	234	340								
MSGCMD	C	000004EE	9	387	370	371									
MSGMSG	C	000004F7	95	388	364	385	362								
MSGMVC	I	000004E8	6	385	368										
MSGOK	I	000004B6	2	366	363										
MSGRET	I	000004D6	4	381	374	377									
MSGSAVE	F	000004DC	4	384	360	381									
NEXTE6	U	0000039C	1	244	261	316									
OPNAME	C	00000009	8	501	286										
PAGE	U	00001000	1	421											
PRT3	C	00001073	18	464	282	283	284	291	292	293	298	299	300		
R0	U	00000000	1	11968	116	167	170	190	192	193	194	199	223	225	226
					227	232	249	302	312	313	339	341	357	360	362
					364	366	381	657	679	702	724	747	769	792	814
					855	884	913	942	971	1000	1029	1058	1088	1117	1146
					1175	1204	1233	1262	1291	1320	1350	1379	1408	1437	1466
					1495	1524	1553	1582	1612	1641	1670	1699	1728	1757	1786
					1815	1844	1873	1906	1935	1964	1993	2022	2051	2080	2109
					2140	2169	2198	2228	2257	2286	2315	2344	2373	2402	2431
					2460	2489	2520	2549	2578	2608	2637	2666	2695	2724	2753
					2782	2811	2840	2869	2900	2929	2958	2988	3017	3046	3075
					3104	3133	3162	3191	3220	3249	3278	3311	3340	3369	3398
					3427	3456	3485	3514	3545	3574	3604	3633	3662	3691	3720
					3749	3778	3807	3836	3867	3896	3926	3955	3984	4013	4042
					4071	4100	4129	4158	4189	4218	4248	4277	4306	4335	4364
					4393	4422	4451	4480	4509	4542	4571	4600	4629	4658	4687
					4716	4745	4776	4805	4834	4864	4893	4922	4951	4980	5009
					5038	5067	5096	5125	5156	5185	5214	5244	5273	5302	5331
					5360	5389	5418	5447	5476	5505	5536	5565	5594	5624	5653
					5682	5711	5740	5769	5798	5827	5856	5885	5914	5946	5975
					6004	6033	6062	6091	6120	6149	6180	6209	6238	6268	6297
					6326	6355	6384	6413	6442	6471	6500	6531	6560	6589	6618
					6648	6677	6706	6735	6764	6793	6822	6851	6880	6911	6940
					6969	6998	7028	7057	7086	7115	7144	7173	7202	7231	7260
					7289	7322	7351	7380	7409	7438	7467	7496	7525	7556	7585
					7614	7644	7673	7702	7731	7760	7789	7818	7847	7876	7907
					7936	7965	7994	8024	8053	8082	8111	8140	8169	8198	8227
					8256	8287	8316	8345	8374	8404	8433	8462	8491	8520	8549
					8578	8607	8636	8665	8698	8727	8756	8785	8814	8843	8872
					8901	8932	8961	8990	9020	9049	9078	9107	9136	9165	9194
					9223	9252	9283	9312	9341	9370	9400	9429	9458	9487	9516
					9545	9574	9603	9632	9663	9692	9721	9750	9780	9809	9838
					9867	9896	9925	9954	9983	10012	10041	10075	10104	10133	10162
					10191	10220	10249	10278	10309	10338	10367	10396	10426	10455	10484
					10513	10542	10571	10600	10629	10658	10687	10718	10747	10776	10805
					10834	10864	10893	10922	10951	10980	11009	11038	11067	11096	11125
					11156	11185	11214	11243	11273	11302	11331	11360	11389	11418	11447
					11476	11505	11534	11563							

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
R1	U	00000001	1	11969	200	233	256	257	258	273	274	275	276	303	322
					323	371	385								
R10	U	0000000A	1	11978	155	164	165								
R11	U	0000000B	1	11979	253	254	659	681	704	726	749	771	794	816	857
					886	915	944	973	1002	1031	1060	1090	1119	1148	1177
					1206	1235	1264	1293	1322	1352	1381	1410	1439	1468	1497
					1526	1555	1584	1614	1643	1672	1701	1730	1759	1788	1817
					1846	1875	1908	1937	1966	1995	2024	2053	2082	2111	2142
					2171	2200	2230	2259	2288	2317	2346	2375	2404	2433	2462
					2491	2522	2551	2580	2610	2639	2668	2697	2726	2755	2784
					2813	2842	2871	2902	2931	2960	2990	3019	3048	3077	3106
					3135	3164	3193	3222	3251	3280	3313	3342	3371	3400	3429
					3458	3487	3516	3547	3576	3606	3635	3664	3693	3722	3751
					3780	3809	3838	3869	3898	3928	3957	3986	4015	4044	4073
					4102	4131	4160	4191	4220	4250	4279	4308	4337	4366	4395
					4424	4453	4482	4511	4544	4573	4602	4631	4660	4689	4718
					4747	4778	4807	4836	4866	4895	4924	4953	4982	5011	5040
					5069	5098	5127	5158	5187	5216	5246	5275	5304	5333	5362
					5391	5420	5449	5478	5507	5538	5567	5596	5626	5655	5684
					5713	5742	5771	5800	5829	5858	5887	5916	5948	5977	6006
					6035	6064	6093	6122	6151	6182	6211	6240	6270	6299	6328
					6357	6386	6415	6444	6473	6502	6533	6562	6591	6620	6650
					6679	6708	6737	6766	6795	6824	6853	6882	6913	6942	6971
					7000	7030	7059	7088	7117	7146	7175	7204	7233	7262	7291
					7324	7353	7382	7411	7440	7469	7498	7527	7558	7587	7616
					7646	7675	7704	7733	7762	7791	7820	7849	7878	7909	7938
					7967	7996	8026	8055	8084	8113	8142	8171	8200	8229	8258
					8289	8318	8347	8376	8406	8435	8464	8493	8522	8551	8580
					8609	8638	8667	8700	8729	8758	8787	8816	8845	8874	8903
					8934	8963	8992	9022	9051	9080	9109	9138	9167	9196	9225
					9254	9285	9314	9343	9372	9402	9431	9460	9489	9518	9547
					9576	9605	9634	9665	9694	9723	9752	9782	9811	9840	9869
					9898	9927	9956	9985	10014	10043	10077	10106	10135	10164	10193
					10222	10251	10280	10311	10340	10369	10398	10428	10457	10486	10515
					10544	10573	10602	10631	10660	10689	10720	10749	10778	10807	10836
					10866	10895	10924	10953	10982	11011	11040	11069	11098	11127	11158
					11187	11216	11245	11275	11304	11333	11362	11391	11420	11449	11478
					11507	11536	11565								
R12	U	0000000C	1	11980	242	245	260	315							
R13	U	0000000D	1	11981											
R14	U	0000000E	1	11982											
R15	U	0000000F	1	11983	304	334	344	345							
R1FUDGE	X	000010A8	8	477											
R1OUTPUT	F	000010E0	8	481											
R2	U	00000002	1	11970	201	234	280	281	288	289	290	295	296	297	339
					340	341	358	360	366	367	368	370	376	381	382
					657	658	679	680	702	703	724	725	747	748	769
					770	792	793	814	815	855	856	884	885	913	914
					942	943	971	972	1000	1001	1029	1030	1058	1059	1088
					1089	1117	1118	1146	1147	1175	1176	1204	1205	1233	1234
					1262	1263	1291	1292	1320	1321	1350	1351	1379	1380	1408
					1409	1437	1438	1466	1467	1495	1496	1524	1525	1553	1554
					1582	1583	1612	1613	1641	1642	1670	1671	1699	1700	1728
					1729	1757	1758	1786	1787	1815	1816	1844	1845	1873	1874
					1906	1907	1935	1936	1964	1965	1993	1994	2022	2023	2051
					2052	2080	2081	2109	2110	2140	2141	2169	2170	2198	2199

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
					2228	2229	2257	2258	2286	2287	2315	2316	2344	2345	2373
					2374	2402	2403	2431	2432	2460	2461	2489	2490	2520	2521
					2549	2550	2578	2579	2608	2609	2637	2638	2666	2667	2695
					2696	2724	2725	2753	2754	2782	2783	2811	2812	2840	2841
					2869	2870	2900	2901	2929	2930	2958	2959	2988	2989	3017
					3018	3046	3047	3075	3076	3104	3105	3133	3134	3162	3163
					3191	3192	3220	3221	3249	3250	3278	3279	3311	3312	3340
					3341	3369	3370	3398	3399	3427	3428	3456	3457	3485	3486
					3514	3515	3545	3546	3574	3575	3604	3605	3633	3634	3662
					3663	3691	3692	3720	3721	3749	3750	3778	3779	3807	3808
					3836	3837	3867	3868	3896	3897	3926	3927	3955	3956	3984
					3985	4013	4014	4042	4043	4071	4072	4100	4101	4129	4130
					4158	4159	4189	4190	4218	4219	4248	4249	4277	4278	4306
					4307	4335	4336	4364	4365	4393	4394	4422	4423	4451	4452
					4480	4481	4509	4510	4542	4543	4571	4572	4600	4601	4629
					4630	4658	4659	4687	4688	4716	4717	4745	4746	4776	4777
					4805	4806	4834	4835	4864	4865	4893	4894	4922	4923	4951
					4952	4980	4981	5009	5010	5038	5039	5067	5068	5096	5097
					5125	5126	5156	5157	5185	5186	5214	5215	5244	5245	5273
					5274	5302	5303	5331	5332	5360	5361	5389	5390	5418	5419
					5447	5448	5476	5477	5505	5506	5536	5537	5565	5566	5594
					5595	5624	5625	5653	5654	5682	5683	5711	5712	5740	5741
					5769	5770	5798	5799	5827	5828	5856	5857	5885	5886	5914
					5915	5946	5947	5975	5976	6004	6005	6033	6034	6062	6063
					6091	6092	6120	6121	6149	6150	6180	6181	6209	6210	6238
					6239	6268	6269	6297	6298	6326	6327	6355	6356	6384	6385
					6413	6414	6442	6443	6471	6472	6500	6501	6531	6532	6560
					6561	6589	6590	6618	6619	6648	6649	6677	6678	6706	6707
					6735	6736	6764	6765	6793	6794	6822	6823	6851	6852	6880
					6881	6911	6912	6940	6941	6969	6970	6998	6999	7028	7029
					7057	7058	7086	7087	7115	7116	7144	7145	7173	7174	7202
					7203	7231	7232	7260	7261	7289	7290	7322	7323	7351	7352
					7380	7381	7409	7410	7438	7439	7467	7468	7496	7497	7525
					7526	7556	7557	7585	7586	7614	7615	7644	7645	7673	7674
					7702	7703	7731	7732	7760	7761	7789	7790	7818	7819	7847
					7848	7876	7877	7907	7908	7936	7937	7965	7966	7994	7995
					8024	8025	8053	8054	8082	8083	8111	8112	8140	8141	8169
					8170	8198	8199	8227	8228	8256	8257	8287	8288	8316	8317
					8345	8346	8374	8375	8404	8405	8433	8434	8462	8463	8491
					8492	8520	8521	8549	8550	8578	8579	8607	8608	8636	8637
					8665	8666	8698	8699	8727	8728	8756	8757	8785	8786	8814
					8815	8843	8844	8872	8873	8901	8902	8932	8933	8961	8962
					8990	8991	9020	9021	9049	9050	9078	9079	9107	9108	9136
					9137	9165	9166	9194	9195	9223	9224	9252	9253	9283	9284
					9312	9313	9341	9342	9370	9371	9400	9401	9429	9430	9458
					9459	9487	9488	9516	9517	9545	9546	9574	9575	9603	9604
					9632	9633	9663	9664	9692	9693	9721	9722	9750	9751	9780
					9781	9809	9810	9838	9839	9867	9868	9896	9897	9925	9926
					9954	9955	9983	9984	10012	10013	10041	10042	10075	10076	10104
					10105	10133	10134	10162	10163	10191	10192	10220	10221	10249	10250
					10278	10279	10309	10310	10338	10339	10367	10368	10396	10397	10426
					10427	10455	10456	10484	10485	10513	10514	10542	10543	10571	10572
					10600	10601	10629	10630	10658	10659	10687	10688	10718	10719	10747
					10748	10776	10777	10805	10806	10834	10835	10864	10865	10893	10894
					10922	10923	10951	10952	10980	10981	11009	11010	11038	11039	11067
					11068	11096	11097	11125	11126	11156	11157	11185	11186	11214	11215

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
					11243	11244	11273	11274	11302	11303	11331	11332	11360	11361	11389
					11390	11418	11419	11447	11448	11476	11477	11505	11506	11534	11535
					11563	11564									
R3	U	00000003	1	11971											
R4	U	00000004	1	11972											
R5	U	00000005	1	11973	245	246	251	335	343	644	661	666	683	689	706
					711	728	734	751	756	773	779	796	801	818	835
					859	864	888	893	917	922	946	951	975	980	1004
					1009	1033	1038	1062	1068	1092	1097	1121	1126	1150	1155
					1179	1184	1208	1213	1237	1242	1266	1271	1295	1300	1324
					1330	1354	1359	1383	1388	1412	1417	1441	1446	1470	1475
					1499	1504	1528	1533	1557	1562	1586	1592	1616	1621	1645
					1650	1674	1679	1703	1708	1732	1737	1761	1766	1790	1795
					1819	1824	1848	1853	1877	1886	1910	1915	1939	1944	1968
					1973	1997	2002	2026	2031	2055	2060	2084	2089	2113	2120
					2144	2149	2173	2178	2202	2208	2232	2237	2261	2266	2290
					2295	2319	2324	2348	2353	2377	2382	2406	2411	2435	2440
					2464	2469	2493	2500	2524	2529	2553	2558	2582	2588	2612
					2617	2641	2646	2670	2675	2699	2704	2728	2733	2757	2762
					2786	2791	2815	2820	2844	2849	2873	2880	2904	2909	2933
					2938	2962	2968	2992	2997	3021	3026	3050	3055	3079	3084
					3108	3113	3137	3142	3166	3171	3195	3200	3224	3229	3253
					3258	3282	3291	3315	3320	3344	3349	3373	3378	3402	3407
					3431	3436	3460	3465	3489	3494	3518	3525	3549	3554	3578
					3584	3608	3613	3637	3642	3666	3671	3695	3700	3724	3729
					3753	3758	3782	3787	3811	3816	3840	3847	3871	3876	3900
					3906	3930	3935	3959	3964	3988	3993	4017	4022	4046	4051
					4075	4080	4104	4109	4133	4138	4162	4169	4193	4198	4222
					4228	4252	4257	4281	4286	4310	4315	4339	4344	4368	4373
					4397	4402	4426	4431	4455	4460	4484	4489	4513	4522	4546
					4551	4575	4580	4604	4609	4633	4638	4662	4667	4691	4696
					4720	4725	4749	4756	4780	4785	4809	4814	4838	4844	4868
					4873	4897	4902	4926	4931	4955	4960	4984	4989	5013	5018
					5042	5047	5071	5076	5100	5105	5129	5136	5160	5165	5189
					5194	5218	5224	5248	5253	5277	5282	5306	5311	5335	5340
					5364	5369	5393	5398	5422	5427	5451	5456	5480	5485	5509
					5516	5540	5545	5569	5574	5598	5604	5628	5633	5657	5662
					5686	5691	5715	5720	5744	5749	5773	5778	5802	5807	5831
					5836	5860	5865	5889	5894	5918	5926	5950	5955	5979	5984
					6008	6013	6037	6042	6066	6071	6095	6100	6124	6129	6153
					6160	6184	6189	6213	6218	6242	6248	6272	6277	6301	6306
					6330	6335	6359	6364	6388	6393	6417	6422	6446	6451	6475
					6480	6504	6511	6535	6540	6564	6569	6593	6598	6622	6628
					6652	6657	6681	6686	6710	6715	6739	6744	6768	6773	6797
					6802	6826	6831	6855	6860	6884	6891	6915	6920	6944	6949
					6973	6978	7002	7008	7032	7037	7061	7066	7090	7095	7119
					7124	7148	7153	7177	7182	7206	7211	7235	7240	7264	7269
					7293	7302	7326	7331	7355	7360	7384	7389	7413	7418	7442
					7447	7471	7476	7500	7505	7529	7536	7560	7565	7589	7594
					7618	7624	7648	7653	7677	7682	7706	7711	7735	7740	7764
					7769	7793	7798	7822	7827	7851	7856	7880	7887	7911	7916
					7940	7945	7969	7974	7998	8004	8028	8033	8057	8062	8086
					8091	8115	8120	8144	8149	8173	8178	8202	8207	8231	8236
					8260	8267	8291	8296	8320	8325	8349	8354	8378	8384	8408
					8413	8437	8442	8466	8471	8495	8500	8524	8529	8553	8558
					8582	8587	8611	8616	8640	8645	8669	8678	8702	8707	8731

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
					8736	8760	8765	8789	8794	8818	8823	8847	8852	8876	8881
					8905	8912	8936	8941	8965	8970	8994	9000	9024	9029	9053
					9058	9082	9087	9111	9116	9140	9145	9169	9174	9198	9203
					9227	9232	9256	9263	9287	9292	9316	9321	9345	9350	9374
					9380	9404	9409	9433	9438	9462	9467	9491	9496	9520	9525
					9549	9554	9578	9583	9607	9612	9636	9643	9667	9672	9696
					9701	9725	9730	9754	9760	9784	9789	9813	9818	9842	9847
					9871	9876	9900	9905	9929	9934	9958	9963	9987	9992	10016
					10021	10045	10055	10079	10084	10108	10113	10137	10142	10166	10171
					10195	10200	10224	10229	10253	10258	10282	10289	10313	10318	10342
					10347	10371	10376	10400	10406	10430	10435	10459	10464	10488	10493
					10517	10522	10546	10551	10575	10580	10604	10609	10633	10638	10662
					10667	10691	10698	10722	10727	10751	10756	10780	10785	10809	10814
					10838	10844	10868	10873	10897	10902	10926	10931	10955	10960	10984
					10989	11013	11018	11042	11047	11071	11076	11100	11105	11129	11136
					11160	11165	11189	11194	11218	11223	11247	11253	11277	11282	11306
					11311	11335	11340	11364	11369	11393	11398	11422	11427	11451	11456
					11480	11485	11509	11514	11538	11543	11567				
R6	U	00000006	1	11974											
R7	U	00000007	1	11975											
R8	U	00000008	1	11976	153	157	158	159	161						
R9	U	00000009	1	11977	154	161	162	164							
RE1	F	0000117C	4	660	652	655									
RE10	F	00001404	4	887	872	875									
RE100	F	00002D54	4	3517	3502	3505									
RE101	F	00002D9C	4	3548	3533	3536									
RE102	F	00002DE4	4	3577	3562	3565									
RE103	F	00002E2C	4	3607	3592	3595									
RE104	F	00002E74	4	3636	3621	3624									
RE105	F	00002EBC	4	3665	3650	3653									
RE106	F	00002F04	4	3694	3679	3682									
RE107	F	00002F4C	4	3723	3708	3711									
RE108	F	00002F94	4	3752	3737	3740									
RE109	F	00002FDC	4	3781	3766	3769									
RE11	F	0000144C	4	916	901	904									
RE110	F	00003024	4	3810	3795	3798									
RE111	F	0000306C	4	3839	3824	3827									
RE112	F	000030B4	4	3870	3855	3858									
RE113	F	000030FC	4	3899	3884	3887									
RE114	F	00003144	4	3929	3914	3917									
RE115	F	0000318C	4	3958	3943	3946									
RE116	F	000031D4	4	3987	3972	3975									
RE117	F	0000321C	4	4016	4001	4004									
RE118	F	00003264	4	4045	4030	4033									
RE119	F	000032AC	4	4074	4059	4062									
RE12	F	00001494	4	945	930	933									
RE120	F	000032F4	4	4103	4088	4091									
RE121	F	0000333C	4	4132	4117	4120									
RE122	F	00003384	4	4161	4146	4149									
RE123	F	000033CC	4	4192	4177	4180									
RE124	F	00003414	4	4221	4206	4209									
RE125	F	0000345C	4	4251	4236	4239									
RE126	F	000034A4	4	4280	4265	4268									
RE127	F	000034EC	4	4309	4294	4297									
RE128	F	00003534	4	4338	4323	4326									
RE129	F	0000357C	4	4367	4352	4355									

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE13	F	000014DC	4	974	959	962
RE130	F	000035C4	4	4396	4381	4384
RE131	F	0000360C	4	4425	4410	4413
RE132	F	00003654	4	4454	4439	4442
RE133	F	0000369C	4	4483	4468	4471
RE134	F	000036E4	4	4512	4497	4500
RE135	F	0000372C	4	4545	4530	4533
RE136	F	00003774	4	4574	4559	4562
RE137	F	000037BC	4	4603	4588	4591
RE138	F	00003804	4	4632	4617	4620
RE139	F	0000384C	4	4661	4646	4649
RE14	F	00001524	4	1003	988	991
RE140	F	00003894	4	4690	4675	4678
RE141	F	000038DC	4	4719	4704	4707
RE142	F	00003924	4	4748	4733	4736
RE143	F	0000396C	4	4779	4764	4767
RE144	F	000039B4	4	4808	4793	4796
RE145	F	000039FC	4	4837	4822	4825
RE146	F	00003A44	4	4867	4852	4855
RE147	F	00003A8C	4	4896	4881	4884
RE148	F	00003AD4	4	4925	4910	4913
RE149	F	00003B1C	4	4954	4939	4942
RE15	F	0000156C	4	1032	1017	1020
RE150	F	00003B64	4	4983	4968	4971
RE151	F	00003BAC	4	5012	4997	5000
RE152	F	00003BF4	4	5041	5026	5029
RE153	F	00003C3C	4	5070	5055	5058
RE154	F	00003C84	4	5099	5084	5087
RE155	F	00003CCC	4	5128	5113	5116
RE156	F	00003D14	4	5159	5144	5147
RE157	F	00003D5C	4	5188	5173	5176
RE158	F	00003DA4	4	5217	5202	5205
RE159	F	00003DEC	4	5247	5232	5235
RE16	F	000015B4	4	1061	1046	1049
RE160	F	00003E34	4	5276	5261	5264
RE161	F	00003E7C	4	5305	5290	5293
RE162	F	00003EC4	4	5334	5319	5322
RE163	F	00003F0C	4	5363	5348	5351
RE164	F	00003F54	4	5392	5377	5380
RE165	F	00003F9C	4	5421	5406	5409
RE166	F	00003FE4	4	5450	5435	5438
RE167	F	0000402C	4	5479	5464	5467
RE168	F	00004074	4	5508	5493	5496
RE169	F	000040BC	4	5539	5524	5527
RE17	F	000015FC	4	1091	1076	1079
RE170	F	00004104	4	5568	5553	5556
RE171	F	0000414C	4	5597	5582	5585
RE172	F	00004194	4	5627	5612	5615
RE173	F	000041DC	4	5656	5641	5644
RE174	F	00004224	4	5685	5670	5673
RE175	F	0000426C	4	5714	5699	5702
RE176	F	000042B4	4	5743	5728	5731
RE177	F	000042FC	4	5772	5757	5760
RE178	F	00004344	4	5801	5786	5789
RE179	F	0000438C	4	5830	5815	5818
RE18	F	00001644	4	1120	1105	1108

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE180	F	000043D4	4	5859	5844	5847
RE181	F	0000441C	4	5888	5873	5876
RE182	F	00004464	4	5917	5902	5905
RE183	F	000044AC	4	5949	5934	5937
RE184	F	000044F4	4	5978	5963	5966
RE185	F	0000453C	4	6007	5992	5995
RE186	F	00004584	4	6036	6021	6024
RE187	F	000045CC	4	6065	6050	6053
RE188	F	00004614	4	6094	6079	6082
RE189	F	0000465C	4	6123	6108	6111
RE19	F	0000168C	4	1149	1134	1137
RE190	F	000046A4	4	6152	6137	6140
RE191	F	000046EC	4	6183	6168	6171
RE192	F	00004734	4	6212	6197	6200
RE193	F	0000477C	4	6241	6226	6229
RE194	F	000047C4	4	6271	6256	6259
RE195	F	0000480C	4	6300	6285	6288
RE196	F	00004854	4	6329	6314	6317
RE197	F	0000489C	4	6358	6343	6346
RE198	F	000048E4	4	6387	6372	6375
RE199	F	0000492C	4	6416	6401	6404
RE2	F	000011C4	4	682	674	677
RE20	F	000016D4	4	1178	1163	1166
RE200	F	00004974	4	6445	6430	6433
RE201	F	000049BC	4	6474	6459	6462
RE202	F	00004A04	4	6503	6488	6491
RE203	F	00004A4C	4	6534	6519	6522
RE204	F	00004A94	4	6563	6548	6551
RE205	F	00004ADC	4	6592	6577	6580
RE206	F	00004B24	4	6621	6606	6609
RE207	F	00004B6C	4	6651	6636	6639
RE208	F	00004BB4	4	6680	6665	6668
RE209	F	00004BFC	4	6709	6694	6697
RE21	F	0000171C	4	1207	1192	1195
RE210	F	00004C44	4	6738	6723	6726
RE211	F	00004C8C	4	6767	6752	6755
RE212	F	00004CD4	4	6796	6781	6784
RE213	F	00004D1C	4	6825	6810	6813
RE214	F	00004D64	4	6854	6839	6842
RE215	F	00004DAC	4	6883	6868	6871
RE216	F	00004DF4	4	6914	6899	6902
RE217	F	00004E3C	4	6943	6928	6931
RE218	F	00004E84	4	6972	6957	6960
RE219	F	00004ECC	4	7001	6986	6989
RE22	F	00001764	4	1236	1221	1224
RE220	F	00004F14	4	7031	7016	7019
RE221	F	00004F5C	4	7060	7045	7048
RE222	F	00004FA4	4	7089	7074	7077
RE223	F	00004FEC	4	7118	7103	7106
RE224	F	00005034	4	7147	7132	7135
RE225	F	0000507C	4	7176	7161	7164
RE226	F	000050C4	4	7205	7190	7193
RE227	F	0000510C	4	7234	7219	7222
RE228	F	00005154	4	7263	7248	7251
RE229	F	0000519C	4	7292	7277	7280
RE23	F	000017AC	4	1265	1250	1253

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE230	F	000051E4	4	7325	7310	7313
RE231	F	0000522C	4	7354	7339	7342
RE232	F	00005274	4	7383	7368	7371
RE233	F	000052BC	4	7412	7397	7400
RE234	F	00005304	4	7441	7426	7429
RE235	F	0000534C	4	7470	7455	7458
RE236	F	00005394	4	7499	7484	7487
RE237	F	000053DC	4	7528	7513	7516
RE238	F	00005424	4	7559	7544	7547
RE239	F	0000546C	4	7588	7573	7576
RE24	F	000017F4	4	1294	1279	1282
RE240	F	000054B4	4	7617	7602	7605
RE241	F	000054FC	4	7647	7632	7635
RE242	F	00005544	4	7676	7661	7664
RE243	F	0000558C	4	7705	7690	7693
RE244	F	000055D4	4	7734	7719	7722
RE245	F	0000561C	4	7763	7748	7751
RE246	F	00005664	4	7792	7777	7780
RE247	F	000056AC	4	7821	7806	7809
RE248	F	000056F4	4	7850	7835	7838
RE249	F	0000573C	4	7879	7864	7867
RE25	F	0000183C	4	1323	1308	1311
RE250	F	00005784	4	7910	7895	7898
RE251	F	000057CC	4	7939	7924	7927
RE252	F	00005814	4	7968	7953	7956
RE253	F	0000585C	4	7997	7982	7985
RE254	F	000058A4	4	8027	8012	8015
RE255	F	000058EC	4	8056	8041	8044
RE256	F	00005934	4	8085	8070	8073
RE257	F	0000597C	4	8114	8099	8102
RE258	F	000059C4	4	8143	8128	8131
RE259	F	00005A0C	4	8172	8157	8160
RE26	F	00001884	4	1353	1338	1341
RE260	F	00005A54	4	8201	8186	8189
RE261	F	00005A9C	4	8230	8215	8218
RE262	F	00005AE4	4	8259	8244	8247
RE263	F	00005B2C	4	8290	8275	8278
RE264	F	00005B74	4	8319	8304	8307
RE265	F	00005BBC	4	8348	8333	8336
RE266	F	00005C04	4	8377	8362	8365
RE267	F	00005C4C	4	8407	8392	8395
RE268	F	00005C94	4	8436	8421	8424
RE269	F	00005CDC	4	8465	8450	8453
RE27	F	000018CC	4	1382	1367	1370
RE270	F	00005D24	4	8494	8479	8482
RE271	F	00005D6C	4	8523	8508	8511
RE272	F	00005DB4	4	8552	8537	8540
RE273	F	00005DFC	4	8581	8566	8569
RE274	F	00005E44	4	8610	8595	8598
RE275	F	00005E8C	4	8639	8624	8627
RE276	F	00005ED4	4	8668	8653	8656
RE277	F	00005F1C	4	8701	8686	8689
RE278	F	00005F64	4	8730	8715	8718
RE279	F	00005FAC	4	8759	8744	8747
RE28	F	00001914	4	1411	1396	1399
RE280	F	00005FF4	4	8788	8773	8776

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE281	F	0000603C	4	8817	8802	8805
RE282	F	00006084	4	8846	8831	8834
RE283	F	000060CC	4	8875	8860	8863
RE284	F	00006114	4	8904	8889	8892
RE285	F	0000615C	4	8935	8920	8923
RE286	F	000061A4	4	8964	8949	8952
RE287	F	000061EC	4	8993	8978	8981
RE288	F	00006234	4	9023	9008	9011
RE289	F	0000627C	4	9052	9037	9040
RE29	F	0000195C	4	1440	1425	1428
RE290	F	000062C4	4	9081	9066	9069
RE291	F	0000630C	4	9110	9095	9098
RE292	F	00006354	4	9139	9124	9127
RE293	F	0000639C	4	9168	9153	9156
RE294	F	000063E4	4	9197	9182	9185
RE295	F	0000642C	4	9226	9211	9214
RE296	F	00006474	4	9255	9240	9243
RE297	F	000064BC	4	9286	9271	9274
RE298	F	00006504	4	9315	9300	9303
RE299	F	0000654C	4	9344	9329	9332
RE3	F	0000120C	4	705	697	700
RE30	F	000019A4	4	1469	1454	1457
RE300	F	00006594	4	9373	9358	9361
RE301	F	000065DC	4	9403	9388	9391
RE302	F	00006624	4	9432	9417	9420
RE303	F	0000666C	4	9461	9446	9449
RE304	F	000066B4	4	9490	9475	9478
RE305	F	000066FC	4	9519	9504	9507
RE306	F	00006744	4	9548	9533	9536
RE307	F	0000678C	4	9577	9562	9565
RE308	F	000067D4	4	9606	9591	9594
RE309	F	0000681C	4	9635	9620	9623
RE31	F	000019EC	4	1498	1483	1486
RE310	F	00006864	4	9666	9651	9654
RE311	F	000068AC	4	9695	9680	9683
RE312	F	000068F4	4	9724	9709	9712
RE313	F	0000693C	4	9753	9738	9741
RE314	F	00006984	4	9783	9768	9771
RE315	F	000069CC	4	9812	9797	9800
RE316	F	00006A14	4	9841	9826	9829
RE317	F	00006A5C	4	9870	9855	9858
RE318	F	00006AA4	4	9899	9884	9887
RE319	F	00006AEC	4	9928	9913	9916
RE32	F	00001A34	4	1527	1512	1515
RE320	F	00006B34	4	9957	9942	9945
RE321	F	00006B7C	4	9986	9971	9974
RE322	F	00006BC4	4	10015	10000	10003
RE323	F	00006C0C	4	10044	10029	10032
RE324	F	00006C54	4	10078	10063	10066
RE325	F	00006C9C	4	10107	10092	10095
RE326	F	00006CE4	4	10136	10121	10124
RE327	F	00006D2C	4	10165	10150	10153
RE328	F	00006D74	4	10194	10179	10182
RE329	F	00006DBC	4	10223	10208	10211
RE33	F	00001A7C	4	1556	1541	1544
RE330	F	00006E04	4	10252	10237	10240

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE331	F	00006E4C	4	10281	10266	10269
RE332	F	00006E94	4	10312	10297	10300
RE333	F	00006EDC	4	10341	10326	10329
RE334	F	00006F24	4	10370	10355	10358
RE335	F	00006F6C	4	10399	10384	10387
RE336	F	00006FB4	4	10429	10414	10417
RE337	F	00006FFC	4	10458	10443	10446
RE338	F	00007044	4	10487	10472	10475
RE339	F	0000708C	4	10516	10501	10504
RE34	F	00001AC4	4	1585	1570	1573
RE340	F	000070D4	4	10545	10530	10533
RE341	F	0000711C	4	10574	10559	10562
RE342	F	00007164	4	10603	10588	10591
RE343	F	000071AC	4	10632	10617	10620
RE344	F	000071F4	4	10661	10646	10649
RE345	F	0000723C	4	10690	10675	10678
RE346	F	00007284	4	10721	10706	10709
RE347	F	000072CC	4	10750	10735	10738
RE348	F	00007314	4	10779	10764	10767
RE349	F	0000735C	4	10808	10793	10796
RE35	F	00001B0C	4	1615	1600	1603
RE350	F	000073A4	4	10837	10822	10825
RE351	F	000073EC	4	10867	10852	10855
RE352	F	00007434	4	10896	10881	10884
RE353	F	0000747C	4	10925	10910	10913
RE354	F	000074C4	4	10954	10939	10942
RE355	F	0000750C	4	10983	10968	10971
RE356	F	00007554	4	11012	10997	11000
RE357	F	0000759C	4	11041	11026	11029
RE358	F	000075E4	4	11070	11055	11058
RE359	F	0000762C	4	11099	11084	11087
RE36	F	00001B54	4	1644	1629	1632
RE360	F	00007674	4	11128	11113	11116
RE361	F	000076BC	4	11159	11144	11147
RE362	F	00007704	4	11188	11173	11176
RE363	F	0000774C	4	11217	11202	11205
RE364	F	00007794	4	11246	11231	11234
RE365	F	000077DC	4	11276	11261	11264
RE366	F	00007824	4	11305	11290	11293
RE367	F	0000786C	4	11334	11319	11322
RE368	F	000078B4	4	11363	11348	11351
RE369	F	000078FC	4	11392	11377	11380
RE37	F	00001B9C	4	1673	1658	1661
RE370	F	00007944	4	11421	11406	11409
RE371	F	0000798C	4	11450	11435	11438
RE372	F	000079D4	4	11479	11464	11467
RE373	F	00007A1C	4	11508	11493	11496
RE374	F	00007A64	4	11537	11522	11525
RE375	F	00007AAC	4	11566	11551	11554
RE38	F	00001BE4	4	1702	1687	1690
RE39	F	00001C2C	4	1731	1716	1719
RE4	F	00001254	4	727	719	722
RE40	F	00001C74	4	1760	1745	1748
RE41	F	00001CBC	4	1789	1774	1777
RE42	F	00001D04	4	1818	1803	1806
RE43	F	00001D4C	4	1847	1832	1835

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE44	F	00001D94	4	1876	1861	1864
RE45	F	00001DDC	4	1909	1894	1897
RE46	F	00001E24	4	1938	1923	1926
RE47	F	00001E6C	4	1967	1952	1955
RE48	F	00001EB4	4	1996	1981	1984
RE49	F	00001EFC	4	2025	2010	2013
RE5	F	0000129C	4	750	742	745
RE50	F	00001F44	4	2054	2039	2042
RE51	F	00001F8C	4	2083	2068	2071
RE52	F	00001FD4	4	2112	2097	2100
RE53	F	0000201C	4	2143	2128	2131
RE54	F	00002064	4	2172	2157	2160
RE55	F	000020AC	4	2201	2186	2189
RE56	F	000020F4	4	2231	2216	2219
RE57	F	0000213C	4	2260	2245	2248
RE58	F	00002184	4	2289	2274	2277
RE59	F	000021CC	4	2318	2303	2306
RE6	F	000012E4	4	772	764	767
RE60	F	00002214	4	2347	2332	2335
RE61	F	0000225C	4	2376	2361	2364
RE62	F	000022A4	4	2405	2390	2393
RE63	F	000022EC	4	2434	2419	2422
RE64	F	00002334	4	2463	2448	2451
RE65	F	0000237C	4	2492	2477	2480
RE66	F	000023C4	4	2523	2508	2511
RE67	F	0000240C	4	2552	2537	2540
RE68	F	00002454	4	2581	2566	2569
RE69	F	0000249C	4	2611	2596	2599
RE7	F	0000132C	4	795	787	790
RE70	F	000024E4	4	2640	2625	2628
RE71	F	0000252C	4	2669	2654	2657
RE72	F	00002574	4	2698	2683	2686
RE73	F	000025BC	4	2727	2712	2715
RE74	F	00002604	4	2756	2741	2744
RE75	F	0000264C	4	2785	2770	2773
RE76	F	00002694	4	2814	2799	2802
RE77	F	000026DC	4	2843	2828	2831
RE78	F	00002724	4	2872	2857	2860
RE79	F	0000276C	4	2903	2888	2891
RE8	F	00001374	4	817	809	812
RE80	F	000027B4	4	2932	2917	2920
RE81	F	000027FC	4	2961	2946	2949
RE82	F	00002844	4	2991	2976	2979
RE83	F	0000288C	4	3020	3005	3008
RE84	F	000028D4	4	3049	3034	3037
RE85	F	0000291C	4	3078	3063	3066
RE86	F	00002964	4	3107	3092	3095
RE87	F	000029AC	4	3136	3121	3124
RE88	F	000029F4	4	3165	3150	3153
RE89	F	00002A3C	4	3194	3179	3182
RE9	F	000013BC	4	858	843	846
RE90	F	00002A84	4	3223	3208	3211
RE91	F	00002ACC	4	3252	3237	3240
RE92	F	00002B14	4	3281	3266	3269
RE93	F	00002B5C	4	3314	3299	3302
RE94	F	00002BA4	4	3343	3328	3331

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE95	F	00002BEC	4	3372	3357	3360
RE96	F	00002C34	4	3401	3386	3389
RE97	F	00002C7C	4	3430	3415	3418
RE98	F	00002CC4	4	3459	3444	3447
RE99	F	00002D0C	4	3488	3473	3476
REA1	A	00001160	4	652		
REA10	A	000013E8	4	872		
REA100	A	00002D38	4	3502		
REA101	A	00002D80	4	3533		
REA102	A	00002DC8	4	3562		
REA103	A	00002E10	4	3592		
REA104	A	00002E58	4	3621		
REA105	A	00002EA0	4	3650		
REA106	A	00002EE8	4	3679		
REA107	A	00002F30	4	3708		
REA108	A	00002F78	4	3737		
REA109	A	00002FC0	4	3766		
REA11	A	00001430	4	901		
REA110	A	00003008	4	3795		
REA111	A	00003050	4	3824		
REA112	A	00003098	4	3855		
REA113	A	000030E0	4	3884		
REA114	A	00003128	4	3914		
REA115	A	00003170	4	3943		
REA116	A	000031B8	4	3972		
REA117	A	00003200	4	4001		
REA118	A	00003248	4	4030		
REA119	A	00003290	4	4059		
REA12	A	00001478	4	930		
REA120	A	000032D8	4	4088		
REA121	A	00003320	4	4117		
REA122	A	00003368	4	4146		
REA123	A	000033B0	4	4177		
REA124	A	000033F8	4	4206		
REA125	A	00003440	4	4236		
REA126	A	00003488	4	4265		
REA127	A	000034D0	4	4294		
REA128	A	00003518	4	4323		
REA129	A	00003560	4	4352		
REA13	A	000014C0	4	959		
REA130	A	000035A8	4	4381		
REA131	A	000035F0	4	4410		
REA132	A	00003638	4	4439		
REA133	A	00003680	4	4468		
REA134	A	000036C8	4	4497		
REA135	A	00003710	4	4530		
REA136	A	00003758	4	4559		
REA137	A	000037A0	4	4588		
REA138	A	000037E8	4	4617		
REA139	A	00003830	4	4646		
REA14	A	00001508	4	988		
REA140	A	00003878	4	4675		
REA141	A	000038C0	4	4704		
REA142	A	00003908	4	4733		
REA143	A	00003950	4	4764		
REA144	A	00003998	4	4793		

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA145	A	000039E0	4	4822	
REA146	A	00003A28	4	4852	
REA147	A	00003A70	4	4881	
REA148	A	00003AB8	4	4910	
REA149	A	00003B00	4	4939	
REA15	A	00001550	4	1017	
REA150	A	00003B48	4	4968	
REA151	A	00003B90	4	4997	
REA152	A	00003BD8	4	5026	
REA153	A	00003C20	4	5055	
REA154	A	00003C68	4	5084	
REA155	A	00003CB0	4	5113	
REA156	A	00003CF8	4	5144	
REA157	A	00003D40	4	5173	
REA158	A	00003D88	4	5202	
REA159	A	00003DD0	4	5232	
REA16	A	00001598	4	1046	
REA160	A	00003E18	4	5261	
REA161	A	00003E60	4	5290	
REA162	A	00003EA8	4	5319	
REA163	A	00003EF0	4	5348	
REA164	A	00003F38	4	5377	
REA165	A	00003F80	4	5406	
REA166	A	00003FC8	4	5435	
REA167	A	00004010	4	5464	
REA168	A	00004058	4	5493	
REA169	A	000040A0	4	5524	
REA17	A	000015E0	4	1076	
REA170	A	000040E8	4	5553	
REA171	A	00004130	4	5582	
REA172	A	00004178	4	5612	
REA173	A	000041C0	4	5641	
REA174	A	00004208	4	5670	
REA175	A	00004250	4	5699	
REA176	A	00004298	4	5728	
REA177	A	000042E0	4	5757	
REA178	A	00004328	4	5786	
REA179	A	00004370	4	5815	
REA18	A	00001628	4	1105	
REA180	A	000043B8	4	5844	
REA181	A	00004400	4	5873	
REA182	A	00004448	4	5902	
REA183	A	00004490	4	5934	
REA184	A	000044D8	4	5963	
REA185	A	00004520	4	5992	
REA186	A	00004568	4	6021	
REA187	A	000045B0	4	6050	
REA188	A	000045F8	4	6079	
REA189	A	00004640	4	6108	
REA19	A	00001670	4	1134	
REA190	A	00004688	4	6137	
REA191	A	000046D0	4	6168	
REA192	A	00004718	4	6197	
REA193	A	00004760	4	6226	
REA194	A	000047A8	4	6256	
REA195	A	000047F0	4	6285	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA196	A	00004838	4	6314	
REA197	A	00004880	4	6343	
REA198	A	000048C8	4	6372	
REA199	A	00004910	4	6401	
REA2	A	000011A8	4	674	
REA20	A	000016B8	4	1163	
REA200	A	00004958	4	6430	
REA201	A	000049A0	4	6459	
REA202	A	000049E8	4	6488	
REA203	A	00004A30	4	6519	
REA204	A	00004A78	4	6548	
REA205	A	00004AC0	4	6577	
REA206	A	00004B08	4	6606	
REA207	A	00004B50	4	6636	
REA208	A	00004B98	4	6665	
REA209	A	00004BE0	4	6694	
REA21	A	00001700	4	1192	
REA210	A	00004C28	4	6723	
REA211	A	00004C70	4	6752	
REA212	A	00004CB8	4	6781	
REA213	A	00004D00	4	6810	
REA214	A	00004D48	4	6839	
REA215	A	00004D90	4	6868	
REA216	A	00004DD8	4	6899	
REA217	A	00004E20	4	6928	
REA218	A	00004E68	4	6957	
REA219	A	00004EB0	4	6986	
REA22	A	00001748	4	1221	
REA220	A	00004EF8	4	7016	
REA221	A	00004F40	4	7045	
REA222	A	00004F88	4	7074	
REA223	A	00004FD0	4	7103	
REA224	A	00005018	4	7132	
REA225	A	00005060	4	7161	
REA226	A	000050A8	4	7190	
REA227	A	000050F0	4	7219	
REA228	A	00005138	4	7248	
REA229	A	00005180	4	7277	
REA23	A	00001790	4	1250	
REA230	A	000051C8	4	7310	
REA231	A	00005210	4	7339	
REA232	A	00005258	4	7368	
REA233	A	000052A0	4	7397	
REA234	A	000052E8	4	7426	
REA235	A	00005330	4	7455	
REA236	A	00005378	4	7484	
REA237	A	000053C0	4	7513	
REA238	A	00005408	4	7544	
REA239	A	00005450	4	7573	
REA24	A	000017D8	4	1279	
REA240	A	00005498	4	7602	
REA241	A	000054E0	4	7632	
REA242	A	00005528	4	7661	
REA243	A	00005570	4	7690	
REA244	A	000055B8	4	7719	
REA245	A	00005600	4	7748	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA246	A	00005648	4	7777	
REA247	A	00005690	4	7806	
REA248	A	000056D8	4	7835	
REA249	A	00005720	4	7864	
REA25	A	00001820	4	1308	
REA250	A	00005768	4	7895	
REA251	A	000057B0	4	7924	
REA252	A	000057F8	4	7953	
REA253	A	00005840	4	7982	
REA254	A	00005888	4	8012	
REA255	A	000058D0	4	8041	
REA256	A	00005918	4	8070	
REA257	A	00005960	4	8099	
REA258	A	000059A8	4	8128	
REA259	A	000059F0	4	8157	
REA26	A	00001868	4	1338	
REA260	A	00005A38	4	8186	
REA261	A	00005A80	4	8215	
REA262	A	00005AC8	4	8244	
REA263	A	00005B10	4	8275	
REA264	A	00005B58	4	8304	
REA265	A	00005BA0	4	8333	
REA266	A	00005BE8	4	8362	
REA267	A	00005C30	4	8392	
REA268	A	00005C78	4	8421	
REA269	A	00005CC0	4	8450	
REA27	A	000018B0	4	1367	
REA270	A	00005D08	4	8479	
REA271	A	00005D50	4	8508	
REA272	A	00005D98	4	8537	
REA273	A	00005DE0	4	8566	
REA274	A	00005E28	4	8595	
REA275	A	00005E70	4	8624	
REA276	A	00005EB8	4	8653	
REA277	A	00005F00	4	8686	
REA278	A	00005F48	4	8715	
REA279	A	00005F90	4	8744	
REA28	A	000018F8	4	1396	
REA280	A	00005FD8	4	8773	
REA281	A	00006020	4	8802	
REA282	A	00006068	4	8831	
REA283	A	000060B0	4	8860	
REA284	A	000060F8	4	8889	
REA285	A	00006140	4	8920	
REA286	A	00006188	4	8949	
REA287	A	000061D0	4	8978	
REA288	A	00006218	4	9008	
REA289	A	00006260	4	9037	
REA29	A	00001940	4	1425	
REA290	A	000062A8	4	9066	
REA291	A	000062F0	4	9095	
REA292	A	00006338	4	9124	
REA293	A	00006380	4	9153	
REA294	A	000063C8	4	9182	
REA295	A	00006410	4	9211	
REA296	A	00006458	4	9240	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA297	A	000064A0	4	9271	
REA298	A	000064E8	4	9300	
REA299	A	00006530	4	9329	
REA3	A	000011F0	4	697	
REA30	A	00001988	4	1454	
REA300	A	00006578	4	9358	
REA301	A	000065C0	4	9388	
REA302	A	00006608	4	9417	
REA303	A	00006650	4	9446	
REA304	A	00006698	4	9475	
REA305	A	000066E0	4	9504	
REA306	A	00006728	4	9533	
REA307	A	00006770	4	9562	
REA308	A	000067B8	4	9591	
REA309	A	00006800	4	9620	
REA31	A	000019D0	4	1483	
REA310	A	00006848	4	9651	
REA311	A	00006890	4	9680	
REA312	A	000068D8	4	9709	
REA313	A	00006920	4	9738	
REA314	A	00006968	4	9768	
REA315	A	000069B0	4	9797	
REA316	A	000069F8	4	9826	
REA317	A	00006A40	4	9855	
REA318	A	00006A88	4	9884	
REA319	A	00006AD0	4	9913	
REA32	A	00001A18	4	1512	
REA320	A	00006B18	4	9942	
REA321	A	00006B60	4	9971	
REA322	A	00006BA8	4	10000	
REA323	A	00006BF0	4	10029	
REA324	A	00006C38	4	10063	
REA325	A	00006C80	4	10092	
REA326	A	00006CC8	4	10121	
REA327	A	00006D10	4	10150	
REA328	A	00006D58	4	10179	
REA329	A	00006DA0	4	10208	
REA33	A	00001A60	4	1541	
REA330	A	00006DE8	4	10237	
REA331	A	00006E30	4	10266	
REA332	A	00006E78	4	10297	
REA333	A	00006EC0	4	10326	
REA334	A	00006F08	4	10355	
REA335	A	00006F50	4	10384	
REA336	A	00006F98	4	10414	
REA337	A	00006FE0	4	10443	
REA338	A	00007028	4	10472	
REA339	A	00007070	4	10501	
REA34	A	00001AA8	4	1570	
REA340	A	000070B8	4	10530	
REA341	A	00007100	4	10559	
REA342	A	00007148	4	10588	
REA343	A	00007190	4	10617	
REA344	A	000071D8	4	10646	
REA345	A	00007220	4	10675	
REA346	A	00007268	4	10706	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA347	A	000072B0	4	10735	
REA348	A	000072F8	4	10764	
REA349	A	00007340	4	10793	
REA35	A	00001AF0	4	1600	
REA350	A	00007388	4	10822	
REA351	A	000073D0	4	10852	
REA352	A	00007418	4	10881	
REA353	A	00007460	4	10910	
REA354	A	000074A8	4	10939	
REA355	A	000074F0	4	10968	
REA356	A	00007538	4	10997	
REA357	A	00007580	4	11026	
REA358	A	000075C8	4	11055	
REA359	A	00007610	4	11084	
REA36	A	00001B38	4	1629	
REA360	A	00007658	4	11113	
REA361	A	000076A0	4	11144	
REA362	A	000076E8	4	11173	
REA363	A	00007730	4	11202	
REA364	A	00007778	4	11231	
REA365	A	000077C0	4	11261	
REA366	A	00007808	4	11290	
REA367	A	00007850	4	11319	
REA368	A	00007898	4	11348	
REA369	A	000078E0	4	11377	
REA37	A	00001B80	4	1658	
REA370	A	00007928	4	11406	
REA371	A	00007970	4	11435	
REA372	A	000079B8	4	11464	
REA373	A	00007A00	4	11493	
REA374	A	00007A48	4	11522	
REA375	A	00007A90	4	11551	
REA38	A	00001BC8	4	1687	
REA39	A	00001C10	4	1716	
REA4	A	00001238	4	719	
REA40	A	00001C58	4	1745	
REA41	A	00001CA0	4	1774	
REA42	A	00001CE8	4	1803	
REA43	A	00001D30	4	1832	
REA44	A	00001D78	4	1861	
REA45	A	00001DC0	4	1894	
REA46	A	00001E08	4	1923	
REA47	A	00001E50	4	1952	
REA48	A	00001E98	4	1981	
REA49	A	00001EE0	4	2010	
REA5	A	00001280	4	742	
REA50	A	00001F28	4	2039	
REA51	A	00001F70	4	2068	
REA52	A	00001FB8	4	2097	
REA53	A	00002000	4	2128	
REA54	A	00002048	4	2157	
REA55	A	00002090	4	2186	
REA56	A	000020D8	4	2216	
REA57	A	00002120	4	2245	
REA58	A	00002168	4	2274	
REA59	A	000021B0	4	2303	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
REA6	A	000012C8	4	764		
REA60	A	000021F8	4	2332		
REA61	A	00002240	4	2361		
REA62	A	00002288	4	2390		
REA63	A	000022D0	4	2419		
REA64	A	00002318	4	2448		
REA65	A	00002360	4	2477		
REA66	A	000023A8	4	2508		
REA67	A	000023F0	4	2537		
REA68	A	00002438	4	2566		
REA69	A	00002480	4	2596		
REA7	A	00001310	4	787		
REA70	A	000024C8	4	2625		
REA71	A	00002510	4	2654		
REA72	A	00002558	4	2683		
REA73	A	000025A0	4	2712		
REA74	A	000025E8	4	2741		
REA75	A	00002630	4	2770		
REA76	A	00002678	4	2799		
REA77	A	000026C0	4	2828		
REA78	A	00002708	4	2857		
REA79	A	00002750	4	2888		
REA8	A	00001358	4	809		
REA80	A	00002798	4	2917		
REA81	A	000027E0	4	2946		
REA82	A	00002828	4	2976		
REA83	A	00002870	4	3005		
REA84	A	000028B8	4	3034		
REA85	A	00002900	4	3063		
REA86	A	00002948	4	3092		
REA87	A	00002990	4	3121		
REA88	A	000029D8	4	3150		
REA89	A	00002A20	4	3179		
REA9	A	000013A0	4	843		
REA90	A	00002A68	4	3208		
REA91	A	00002AB0	4	3237		
REA92	A	00002AF8	4	3266		
REA93	A	00002B40	4	3299		
REA94	A	00002B88	4	3328		
REA95	A	00002BD0	4	3357		
REA96	A	00002C18	4	3386		
REA97	A	00002C60	4	3415		
REA98	A	00002CA8	4	3444		
REA99	A	00002CF0	4	3473		
READDR	A	00000018	4	504		
REG2LOW	U	000000DD	1	427		
REG2PATT	U	AABBCCDD	1	426		
RELEN	A	00000014	4	503		
RPTDWSAV	D	00000490	8	350	339	341
RPTERROR	I	00000464	4	334	304	
RPTSAVE	F	00000484	4	347	334	344
RPTSVR5	F	00000488	4	348	335	343
SKL0001	U	00000054	1	183	199	
SKL0002	U	00000062	1	216	232	
SKT0001	C	0000022A	26	180	183	200
SKT0002	C	000002DC	26	213	216	233

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
SVOLDPSW	U	00000140	0	118	
T1	A	00001148	4	645	11582
T10	A	000013D0	4	865	11591
T100	A	00002D20	4	3495	11681
T101	A	00002D68	4	3526	11682
T102	A	00002DB0	4	3555	11683
T103	A	00002DF8	4	3585	11684
T104	A	00002E40	4	3614	11685
T105	A	00002E88	4	3643	11686
T106	A	00002ED0	4	3672	11687
T107	A	00002F18	4	3701	11688
T108	A	00002F60	4	3730	11689
T109	A	00002FA8	4	3759	11690
T11	A	00001418	4	894	11592
T110	A	00002FF0	4	3788	11691
T111	A	00003038	4	3817	11692
T112	A	00003080	4	3848	11693
T113	A	000030C8	4	3877	11694
T114	A	00003110	4	3907	11695
T115	A	00003158	4	3936	11696
T116	A	000031A0	4	3965	11697
T117	A	000031E8	4	3994	11698
T118	A	00003230	4	4023	11699
T119	A	00003278	4	4052	11700
T12	A	00001460	4	923	11593
T120	A	000032C0	4	4081	11701
T121	A	00003308	4	4110	11702
T122	A	00003350	4	4139	11703
T123	A	00003398	4	4170	11704
T124	A	000033E0	4	4199	11705
T125	A	00003428	4	4229	11706
T126	A	00003470	4	4258	11707
T127	A	000034B8	4	4287	11708
T128	A	00003500	4	4316	11709
T129	A	00003548	4	4345	11710
T13	A	000014A8	4	952	11594
T130	A	00003590	4	4374	11711
T131	A	000035D8	4	4403	11712
T132	A	00003620	4	4432	11713
T133	A	00003668	4	4461	11714
T134	A	000036B0	4	4490	11715
T135	A	000036F8	4	4523	11716
T136	A	00003740	4	4552	11717
T137	A	00003788	4	4581	11718
T138	A	000037D0	4	4610	11719
T139	A	00003818	4	4639	11720
T14	A	000014F0	4	981	11595
T140	A	00003860	4	4668	11721
T141	A	000038A8	4	4697	11722
T142	A	000038F0	4	4726	11723
T143	A	00003938	4	4757	11724
T144	A	00003980	4	4786	11725
T145	A	000039C8	4	4815	11726
T146	A	00003A10	4	4845	11727
T147	A	00003A58	4	4874	11728
T148	A	00003AA0	4	4903	11729

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T149	A	00003AE8	4	4932	11730
T15	A	00001538	4	1010	11596
T150	A	00003B30	4	4961	11731
T151	A	00003B78	4	4990	11732
T152	A	00003BC0	4	5019	11733
T153	A	00003C08	4	5048	11734
T154	A	00003C50	4	5077	11735
T155	A	00003C98	4	5106	11736
T156	A	00003CE0	4	5137	11737
T157	A	00003D28	4	5166	11738
T158	A	00003D70	4	5195	11739
T159	A	00003DB8	4	5225	11740
T16	A	00001580	4	1039	11597
T160	A	00003E00	4	5254	11741
T161	A	00003E48	4	5283	11742
T162	A	00003E90	4	5312	11743
T163	A	00003ED8	4	5341	11744
T164	A	00003F20	4	5370	11745
T165	A	00003F68	4	5399	11746
T166	A	00003FB0	4	5428	11747
T167	A	00003FF8	4	5457	11748
T168	A	00004040	4	5486	11749
T169	A	00004088	4	5517	11750
T17	A	000015C8	4	1069	11598
T170	A	000040D0	4	5546	11751
T171	A	00004118	4	5575	11752
T172	A	00004160	4	5605	11753
T173	A	000041A8	4	5634	11754
T174	A	000041F0	4	5663	11755
T175	A	00004238	4	5692	11756
T176	A	00004280	4	5721	11757
T177	A	000042C8	4	5750	11758
T178	A	00004310	4	5779	11759
T179	A	00004358	4	5808	11760
T18	A	00001610	4	1098	11599
T180	A	000043A0	4	5837	11761
T181	A	000043E8	4	5866	11762
T182	A	00004430	4	5895	11763
T183	A	00004478	4	5927	11764
T184	A	000044C0	4	5956	11765
T185	A	00004508	4	5985	11766
T186	A	00004550	4	6014	11767
T187	A	00004598	4	6043	11768
T188	A	000045E0	4	6072	11769
T189	A	00004628	4	6101	11770
T19	A	00001658	4	1127	11600
T190	A	00004670	4	6130	11771
T191	A	000046B8	4	6161	11772
T192	A	00004700	4	6190	11773
T193	A	00004748	4	6219	11774
T194	A	00004790	4	6249	11775
T195	A	000047D8	4	6278	11776
T196	A	00004820	4	6307	11777
T197	A	00004868	4	6336	11778
T198	A	000048B0	4	6365	11779
T199	A	000048F8	4	6394	11780

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T2	A	00001190	4	667	11583
T20	A	000016A0	4	1156	11601
T200	A	00004940	4	6423	11781
T201	A	00004988	4	6452	11782
T202	A	000049D0	4	6481	11783
T203	A	00004A18	4	6512	11784
T204	A	00004A60	4	6541	11785
T205	A	00004AA8	4	6570	11786
T206	A	00004AF0	4	6599	11787
T207	A	00004B38	4	6629	11788
T208	A	00004B80	4	6658	11789
T209	A	00004BC8	4	6687	11790
T21	A	000016E8	4	1185	11602
T210	A	00004C10	4	6716	11791
T211	A	00004C58	4	6745	11792
T212	A	00004CA0	4	6774	11793
T213	A	00004CE8	4	6803	11794
T214	A	00004D30	4	6832	11795
T215	A	00004D78	4	6861	11796
T216	A	00004DC0	4	6892	11797
T217	A	00004E08	4	6921	11798
T218	A	00004E50	4	6950	11799
T219	A	00004E98	4	6979	11800
T22	A	00001730	4	1214	11603
T220	A	00004EE0	4	7009	11801
T221	A	00004F28	4	7038	11802
T222	A	00004F70	4	7067	11803
T223	A	00004FB8	4	7096	11804
T224	A	00005000	4	7125	11805
T225	A	00005048	4	7154	11806
T226	A	00005090	4	7183	11807
T227	A	000050D8	4	7212	11808
T228	A	00005120	4	7241	11809
T229	A	00005168	4	7270	11810
T23	A	00001778	4	1243	11604
T230	A	000051B0	4	7303	11811
T231	A	000051F8	4	7332	11812
T232	A	00005240	4	7361	11813
T233	A	00005288	4	7390	11814
T234	A	000052D0	4	7419	11815
T235	A	00005318	4	7448	11816
T236	A	00005360	4	7477	11817
T237	A	000053A8	4	7506	11818
T238	A	000053F0	4	7537	11819
T239	A	00005438	4	7566	11820
T24	A	000017C0	4	1272	11605
T240	A	00005480	4	7595	11821
T241	A	000054C8	4	7625	11822
T242	A	00005510	4	7654	11823
T243	A	00005558	4	7683	11824
T244	A	000055A0	4	7712	11825
T245	A	000055E8	4	7741	11826
T246	A	00005630	4	7770	11827
T247	A	00005678	4	7799	11828
T248	A	000056C0	4	7828	11829
T249	A	00005708	4	7857	11830

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T25	A	00001808	4	1301	11606
T250	A	00005750	4	7888	11831
T251	A	00005798	4	7917	11832
T252	A	000057E0	4	7946	11833
T253	A	00005828	4	7975	11834
T254	A	00005870	4	8005	11835
T255	A	000058B8	4	8034	11836
T256	A	00005900	4	8063	11837
T257	A	00005948	4	8092	11838
T258	A	00005990	4	8121	11839
T259	A	000059D8	4	8150	11840
T26	A	00001850	4	1331	11607
T260	A	00005A20	4	8179	11841
T261	A	00005A68	4	8208	11842
T262	A	00005AB0	4	8237	11843
T263	A	00005AF8	4	8268	11844
T264	A	00005B40	4	8297	11845
T265	A	00005B88	4	8326	11846
T266	A	00005BD0	4	8355	11847
T267	A	00005C18	4	8385	11848
T268	A	00005C60	4	8414	11849
T269	A	00005CA8	4	8443	11850
T27	A	00001898	4	1360	11608
T270	A	00005CF0	4	8472	11851
T271	A	00005D38	4	8501	11852
T272	A	00005D80	4	8530	11853
T273	A	00005DC8	4	8559	11854
T274	A	00005E10	4	8588	11855
T275	A	00005E58	4	8617	11856
T276	A	00005EA0	4	8646	11857
T277	A	00005EE8	4	8679	11858
T278	A	00005F30	4	8708	11859
T279	A	00005F78	4	8737	11860
T28	A	000018E0	4	1389	11609
T280	A	00005FC0	4	8766	11861
T281	A	00006008	4	8795	11862
T282	A	00006050	4	8824	11863
T283	A	00006098	4	8853	11864
T284	A	000060E0	4	8882	11865
T285	A	00006128	4	8913	11866
T286	A	00006170	4	8942	11867
T287	A	000061B8	4	8971	11868
T288	A	00006200	4	9001	11869
T289	A	00006248	4	9030	11870
T29	A	00001928	4	1418	11610
T290	A	00006290	4	9059	11871
T291	A	000062D8	4	9088	11872
T292	A	00006320	4	9117	11873
T293	A	00006368	4	9146	11874
T294	A	000063B0	4	9175	11875
T295	A	000063F8	4	9204	11876
T296	A	00006440	4	9233	11877
T297	A	00006488	4	9264	11878
T298	A	000064D0	4	9293	11879
T299	A	00006518	4	9322	11880
T3	A	000011D8	4	690	11584

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T30	A	00001970	4	1447	11611
T300	A	00006560	4	9351	11881
T301	A	000065A8	4	9381	11882
T302	A	000065F0	4	9410	11883
T303	A	00006638	4	9439	11884
T304	A	00006680	4	9468	11885
T305	A	000066C8	4	9497	11886
T306	A	00006710	4	9526	11887
T307	A	00006758	4	9555	11888
T308	A	000067A0	4	9584	11889
T309	A	000067E8	4	9613	11890
T31	A	000019B8	4	1476	11612
T310	A	00006830	4	9644	11891
T311	A	00006878	4	9673	11892
T312	A	000068C0	4	9702	11893
T313	A	00006908	4	9731	11894
T314	A	00006950	4	9761	11895
T315	A	00006998	4	9790	11896
T316	A	000069E0	4	9819	11897
T317	A	00006A28	4	9848	11898
T318	A	00006A70	4	9877	11899
T319	A	00006AB8	4	9906	11900
T32	A	00001A00	4	1505	11613
T320	A	00006B00	4	9935	11901
T321	A	00006B48	4	9964	11902
T322	A	00006B90	4	9993	11903
T323	A	00006BD8	4	10022	11904
T324	A	00006C20	4	10056	11905
T325	A	00006C68	4	10085	11906
T326	A	00006CB0	4	10114	11907
T327	A	00006CF8	4	10143	11908
T328	A	00006D40	4	10172	11909
T329	A	00006D88	4	10201	11910
T33	A	00001A48	4	1534	11614
T330	A	00006DD0	4	10230	11911
T331	A	00006E18	4	10259	11912
T332	A	00006E60	4	10290	11913
T333	A	00006EA8	4	10319	11914
T334	A	00006EF0	4	10348	11915
T335	A	00006F38	4	10377	11916
T336	A	00006F80	4	10407	11917
T337	A	00006FC8	4	10436	11918
T338	A	00007010	4	10465	11919
T339	A	00007058	4	10494	11920
T34	A	00001A90	4	1563	11615
T340	A	000070A0	4	10523	11921
T341	A	000070E8	4	10552	11922
T342	A	00007130	4	10581	11923
T343	A	00007178	4	10610	11924
T344	A	000071C0	4	10639	11925
T345	A	00007208	4	10668	11926
T346	A	00007250	4	10699	11927
T347	A	00007298	4	10728	11928
T348	A	000072E0	4	10757	11929
T349	A	00007328	4	10786	11930
T35	A	00001AD8	4	1593	11616

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T350	A	00007370	4	10815	11931
T351	A	000073B8	4	10845	11932
T352	A	00007400	4	10874	11933
T353	A	00007448	4	10903	11934
T354	A	00007490	4	10932	11935
T355	A	000074D8	4	10961	11936
T356	A	00007520	4	10990	11937
T357	A	00007568	4	11019	11938
T358	A	000075B0	4	11048	11939
T359	A	000075F8	4	11077	11940
T36	A	00001B20	4	1622	11617
T360	A	00007640	4	11106	11941
T361	A	00007688	4	11137	11942
T362	A	000076D0	4	11166	11943
T363	A	00007718	4	11195	11944
T364	A	00007760	4	11224	11945
T365	A	000077A8	4	11254	11946
T366	A	000077F0	4	11283	11947
T367	A	00007838	4	11312	11948
T368	A	00007880	4	11341	11949
T369	A	000078C8	4	11370	11950
T37	A	00001B68	4	1651	11618
T370	A	00007910	4	11399	11951
T371	A	00007958	4	11428	11952
T372	A	000079A0	4	11457	11953
T373	A	000079E8	4	11486	11954
T374	A	00007A30	4	11515	11955
T375	A	00007A78	4	11544	11956
T38	A	00001BB0	4	1680	11619
T39	A	00001BF8	4	1709	11620
T4	A	00001220	4	712	11585
T40	A	00001C40	4	1738	11621
T41	A	00001C88	4	1767	11622
T42	A	00001CD0	4	1796	11623
T43	A	00001D18	4	1825	11624
T44	A	00001D60	4	1854	11625
T45	A	00001DA8	4	1887	11626
T46	A	00001DF0	4	1916	11627
T47	A	00001E38	4	1945	11628
T48	A	00001E80	4	1974	11629
T49	A	00001EC8	4	2003	11630
T5	A	00001268	4	735	11586
T50	A	00001F10	4	2032	11631
T51	A	00001F58	4	2061	11632
T52	A	00001FA0	4	2090	11633
T53	A	00001FE8	4	2121	11634
T54	A	00002030	4	2150	11635
T55	A	00002078	4	2179	11636
T56	A	000020C0	4	2209	11637
T57	A	00002108	4	2238	11638
T58	A	00002150	4	2267	11639
T59	A	00002198	4	2296	11640
T6	A	000012B0	4	757	11587
T60	A	000021E0	4	2325	11641
T61	A	00002228	4	2354	11642
T62	A	00002270	4	2383	11643

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T63	A	000022B8	4	2412	11644
T64	A	00002300	4	2441	11645
T65	A	00002348	4	2470	11646
T66	A	00002390	4	2501	11647
T67	A	000023D8	4	2530	11648
T68	A	00002420	4	2559	11649
T69	A	00002468	4	2589	11650
T7	A	000012F8	4	780	11588
T70	A	000024B0	4	2618	11651
T71	A	000024F8	4	2647	11652
T72	A	00002540	4	2676	11653
T73	A	00002588	4	2705	11654
T74	A	000025D0	4	2734	11655
T75	A	00002618	4	2763	11656
T76	A	00002660	4	2792	11657
T77	A	000026A8	4	2821	11658
T78	A	000026F0	4	2850	11659
T79	A	00002738	4	2881	11660
T8	A	00001340	4	802	11589
T80	A	00002780	4	2910	11661
T81	A	000027C8	4	2939	11662
T82	A	00002810	4	2969	11663
T83	A	00002858	4	2998	11664
T84	A	000028A0	4	3027	11665
T85	A	000028E8	4	3056	11666
T86	A	00002930	4	3085	11667
T87	A	00002978	4	3114	11668
T88	A	000029C0	4	3143	11669
T89	A	00002A08	4	3172	11670
T9	A	00001388	4	836	11590
T90	A	00002A50	4	3201	11671
T91	A	00002A98	4	3230	11672
T92	A	00002AE0	4	3259	11673
T93	A	00002B28	4	3292	11674
T94	A	00002B70	4	3321	11675
T95	A	00002BB8	4	3350	11676
T96	A	00002C00	4	3379	11677
T97	A	00002C48	4	3408	11678
T98	A	00002C90	4	3437	11679
T99	A	00002CD8	4	3466	11680
TESTCC	I	000003C6	4	263	258
TESTING	F	00001004	4	438	
TNUM	H	00000004	2	496	280
TSUB	A	00000000	4	495	253
TTABLE	F	00007AC4	4	11581	
V0	U	00000000	1	11989	
V1	U	00000001	1	11990	655 656 677 678 700 701 722 723 745 746 767 768 790 791 812 813 846 875 904 933 962 991 1020 1049 1079 1108 1137 1166 1195 1224 1253 1282 1311 1341 1370 1399 1428 1457 1486 1515 1544 1573 1603 1632 1661 1690 1719 1748 1777 1806 1835 1864 1897 1926 1955 1984 2013 2042 2071 2100 2131 2160 2189 2219 2248 2277 2306 2335 2364 2393 2422 2451 2480 2511 2540 2569 2599 2628 2657 2686 2715 2744 2773 2802 2831 2860 2891 2920 2949 2979 3008 3037 3066 3095 3124 3153 3182 3211 3240 3269 3302 3331 3360 3389 3418 3447 3476 3505 3536 3565

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES										
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					3917	3946	3975	4004	4033	4062	4091	4120	4149	4180	4209
					4239	4268	4297	4326	4355	4384	4413	4442	4471	4500	4533
					4562	4591	4620	4649	4678	4707	4736	4767	4796	4825	4855
					4884	4913	4942	4971	5000	5029	5058	5087	5116	5147	5176
					5205	5235	5264	5293	5322	5351	5380	5409	5438	5467	5496
					5527	5556	5585	5615	5644	5673	5702	5731	5760	5789	5818
					5847	5876	5905	5937	5966	5995	6024	6053	6082	6111	6140
					6171	6200	6229	6259	6288	6317	6346	6375	6404	6433	6462
					6491	6522	6551	6580	6609	6639	6668	6697	6726	6755	6784
					6813	6842	6871	6902	6931	6960	6989	7019	7048	7077	7106
					7135	7164	7193	7222	7251	7280	7313	7342	7371	7400	7429
					7458	7487	7516	7547	7576	7605	7635	7664	7693	7722	7751
					7780	7809	7838	7867	7898	7927	7956	7985	8015	8044	8073
					8102	8131	8160	8189	8218	8247	8278	8307	8336	8365	8395
					8424	8453	8482	8511	8540	8569	8598	8627	8656	8689	8718
					8747	8776	8805	8834	8863	8892	8923	8952	8981	9011	9040
					9069	9098	9127	9156	9185	9214	9243	9274	9303	9332	9361
					9391	9420	9449	9478	9507	9536	9565	9594	9623	9654	9683
					9712	9741	9771	9800	9829	9858	9887	9916	9945	9974	10003
					10032	10066	10095	10124	10153	10182	10211	10240	10269	10300	10329
					10358	10387	10417	10446	10475	10504	10533	10562	10591	10620	10649
					10678	10709	10738	10767	10796	10825	10855	10884	10913	10942	10971
					11000	11029	11058	11087	11116	11147	11176	11205	11234	11264	11293
					11322	11351	11380	11409	11438	11467	11496	11525	11554		
V10	U	0000000A	1	11999											
V11	U	0000000B	1	12000											
V12	U	0000000C	1	12001											
V13	U	0000000D	1	12002											
V14	U	0000000E	1	12003											
V15	U	0000000F	1	12004											
V16	U	00000010	1	12005											
V17	U	00000011	1	12006											
V18	U	00000012	1	12007											
V19	U	00000013	1	12008											
V1FUDGE	X	000010F8	16	483											
V1FUDGEB	X	00001108	16	484											
V1INPUT	C	00001118	16	485											
V1OUTPUT	X	000010C0	16	479											
V2	U	00000002	1	11991											
V20	U	00000014	1	12009											
V21	U	00000015	1	12010											
V22	U	00000016	1	12011											
V23	U	00000017	1	12012											
V24	U	00000018	1	12013											
V25	U	00000019	1	12014											
V26	U	0000001A	1	12015											
V27	U	0000001B	1	12016											
V28	U	0000001C	1	12017											
V29	U	0000001D	1	12018											
V3	U	00000003	1	11992											
V30	U	0000001E	1	12019											
V31	U	0000001F	1	12020											
V4	U	00000004	1	11993											
V5	U	00000005	1	11994											
V6	U	00000006	1	11995											

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
V7	U	00000007	1	11996		
V8	U	00000008	1	11997		
V9	U	00000009	1	11998		
X0001	U	000002B0	1	189	177	190
X0002	U	00000370	1	222	210	223
X1	F	00001164	4	654	645	
X10	F	000013EC	4	874	865	
X100	F	00002D3C	4	3504	3495	
X101	F	00002D84	4	3535	3526	
X102	F	00002DCC	4	3564	3555	
X103	F	00002E14	4	3594	3585	
X104	F	00002E5C	4	3623	3614	
X105	F	00002EA4	4	3652	3643	
X106	F	00002EEC	4	3681	3672	
X107	F	00002F34	4	3710	3701	
X108	F	00002F7C	4	3739	3730	
X109	F	00002FC4	4	3768	3759	
X11	F	00001434	4	903	894	
X110	F	0000300C	4	3797	3788	
X111	F	00003054	4	3826	3817	
X112	F	0000309C	4	3857	3848	
X113	F	000030E4	4	3886	3877	
X114	F	0000312C	4	3916	3907	
X115	F	00003174	4	3945	3936	
X116	F	000031BC	4	3974	3965	
X117	F	00003204	4	4003	3994	
X118	F	0000324C	4	4032	4023	
X119	F	00003294	4	4061	4052	
X12	F	0000147C	4	932	923	
X120	F	000032DC	4	4090	4081	
X121	F	00003324	4	4119	4110	
X122	F	0000336C	4	4148	4139	
X123	F	000033B4	4	4179	4170	
X124	F	000033FC	4	4208	4199	
X125	F	00003444	4	4238	4229	
X126	F	0000348C	4	4267	4258	
X127	F	000034D4	4	4296	4287	
X128	F	0000351C	4	4325	4316	
X129	F	00003564	4	4354	4345	
X13	F	000014C4	4	961	952	
X130	F	000035AC	4	4383	4374	
X131	F	000035F4	4	4412	4403	
X132	F	0000363C	4	4441	4432	
X133	F	00003684	4	4470	4461	
X134	F	000036CC	4	4499	4490	
X135	F	00003714	4	4532	4523	
X136	F	0000375C	4	4561	4552	
X137	F	000037A4	4	4590	4581	
X138	F	000037EC	4	4619	4610	
X139	F	00003834	4	4648	4639	
X14	F	0000150C	4	990	981	
X140	F	0000387C	4	4677	4668	
X141	F	000038C4	4	4706	4697	
X142	F	0000390C	4	4735	4726	
X143	F	00003954	4	4766	4757	
X144	F	0000399C	4	4795	4786	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X145	F	000039E4	4	4824	4815
X146	F	00003A2C	4	4854	4845
X147	F	00003A74	4	4883	4874
X148	F	00003ABC	4	4912	4903
X149	F	00003B04	4	4941	4932
X15	F	00001554	4	1019	1010
X150	F	00003B4C	4	4970	4961
X151	F	00003B94	4	4999	4990
X152	F	00003BDC	4	5028	5019
X153	F	00003C24	4	5057	5048
X154	F	00003C6C	4	5086	5077
X155	F	00003CB4	4	5115	5106
X156	F	00003CFC	4	5146	5137
X157	F	00003D44	4	5175	5166
X158	F	00003D8C	4	5204	5195
X159	F	00003DD4	4	5234	5225
X16	F	0000159C	4	1048	1039
X160	F	00003E1C	4	5263	5254
X161	F	00003E64	4	5292	5283
X162	F	00003EAC	4	5321	5312
X163	F	00003EF4	4	5350	5341
X164	F	00003F3C	4	5379	5370
X165	F	00003F84	4	5408	5399
X166	F	00003FCC	4	5437	5428
X167	F	00004014	4	5466	5457
X168	F	0000405C	4	5495	5486
X169	F	000040A4	4	5526	5517
X17	F	000015E4	4	1078	1069
X170	F	000040EC	4	5555	5546
X171	F	00004134	4	5584	5575
X172	F	0000417C	4	5614	5605
X173	F	000041C4	4	5643	5634
X174	F	0000420C	4	5672	5663
X175	F	00004254	4	5701	5692
X176	F	0000429C	4	5730	5721
X177	F	000042E4	4	5759	5750
X178	F	0000432C	4	5788	5779
X179	F	00004374	4	5817	5808
X18	F	0000162C	4	1107	1098
X180	F	000043BC	4	5846	5837
X181	F	00004404	4	5875	5866
X182	F	0000444C	4	5904	5895
X183	F	00004494	4	5936	5927
X184	F	000044DC	4	5965	5956
X185	F	00004524	4	5994	5985
X186	F	0000456C	4	6023	6014
X187	F	000045B4	4	6052	6043
X188	F	000045FC	4	6081	6072
X189	F	00004644	4	6110	6101
X19	F	00001674	4	1136	1127
X190	F	0000468C	4	6139	6130
X191	F	000046D4	4	6170	6161
X192	F	0000471C	4	6199	6190
X193	F	00004764	4	6228	6219
X194	F	000047AC	4	6258	6249
X195	F	000047F4	4	6287	6278

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X196	F	0000483C	4	6316	6307
X197	F	00004884	4	6345	6336
X198	F	000048CC	4	6374	6365
X199	F	00004914	4	6403	6394
X2	F	000011AC	4	676	667
X20	F	000016BC	4	1165	1156
X200	F	0000495C	4	6432	6423
X201	F	000049A4	4	6461	6452
X202	F	000049EC	4	6490	6481
X203	F	00004A34	4	6521	6512
X204	F	00004A7C	4	6550	6541
X205	F	00004AC4	4	6579	6570
X206	F	00004B0C	4	6608	6599
X207	F	00004B54	4	6638	6629
X208	F	00004B9C	4	6667	6658
X209	F	00004BE4	4	6696	6687
X21	F	00001704	4	1194	1185
X210	F	00004C2C	4	6725	6716
X211	F	00004C74	4	6754	6745
X212	F	00004CBC	4	6783	6774
X213	F	00004D04	4	6812	6803
X214	F	00004D4C	4	6841	6832
X215	F	00004D94	4	6870	6861
X216	F	00004DDC	4	6901	6892
X217	F	00004E24	4	6930	6921
X218	F	00004E6C	4	6959	6950
X219	F	00004EB4	4	6988	6979
X22	F	0000174C	4	1223	1214
X220	F	00004EFC	4	7018	7009
X221	F	00004F44	4	7047	7038
X222	F	00004F8C	4	7076	7067
X223	F	00004FD4	4	7105	7096
X224	F	0000501C	4	7134	7125
X225	F	00005064	4	7163	7154
X226	F	000050AC	4	7192	7183
X227	F	000050F4	4	7221	7212
X228	F	0000513C	4	7250	7241
X229	F	00005184	4	7279	7270
X23	F	00001794	4	1252	1243
X230	F	000051CC	4	7312	7303
X231	F	00005214	4	7341	7332
X232	F	0000525C	4	7370	7361
X233	F	000052A4	4	7399	7390
X234	F	000052EC	4	7428	7419
X235	F	00005334	4	7457	7448
X236	F	0000537C	4	7486	7477
X237	F	000053C4	4	7515	7506
X238	F	0000540C	4	7546	7537
X239	F	00005454	4	7575	7566
X24	F	000017DC	4	1281	1272
X240	F	0000549C	4	7604	7595
X241	F	000054E4	4	7634	7625
X242	F	0000552C	4	7663	7654
X243	F	00005574	4	7692	7683
X244	F	000055BC	4	7721	7712
X245	F	00005604	4	7750	7741

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X246	F	0000564C	4	7779	7770
X247	F	00005694	4	7808	7799
X248	F	000056DC	4	7837	7828
X249	F	00005724	4	7866	7857
X25	F	00001824	4	1310	1301
X250	F	0000576C	4	7897	7888
X251	F	000057B4	4	7926	7917
X252	F	000057FC	4	7955	7946
X253	F	00005844	4	7984	7975
X254	F	0000588C	4	8014	8005
X255	F	000058D4	4	8043	8034
X256	F	0000591C	4	8072	8063
X257	F	00005964	4	8101	8092
X258	F	000059AC	4	8130	8121
X259	F	000059F4	4	8159	8150
X26	F	0000186C	4	1340	1331
X260	F	00005A3C	4	8188	8179
X261	F	00005A84	4	8217	8208
X262	F	00005ACC	4	8246	8237
X263	F	00005B14	4	8277	8268
X264	F	00005B5C	4	8306	8297
X265	F	00005BA4	4	8335	8326
X266	F	00005BEC	4	8364	8355
X267	F	00005C34	4	8394	8385
X268	F	00005C7C	4	8423	8414
X269	F	00005CC4	4	8452	8443
X27	F	000018B4	4	1369	1360
X270	F	00005D0C	4	8481	8472
X271	F	00005D54	4	8510	8501
X272	F	00005D9C	4	8539	8530
X273	F	00005DE4	4	8568	8559
X274	F	00005E2C	4	8597	8588
X275	F	00005E74	4	8626	8617
X276	F	00005EBC	4	8655	8646
X277	F	00005F04	4	8688	8679
X278	F	00005F4C	4	8717	8708
X279	F	00005F94	4	8746	8737
X28	F	000018FC	4	1398	1389
X280	F	00005FDC	4	8775	8766
X281	F	00006024	4	8804	8795
X282	F	0000606C	4	8833	8824
X283	F	000060B4	4	8862	8853
X284	F	000060FC	4	8891	8882
X285	F	00006144	4	8922	8913
X286	F	0000618C	4	8951	8942
X287	F	000061D4	4	8980	8971
X288	F	0000621C	4	9010	9001
X289	F	00006264	4	9039	9030
X29	F	00001944	4	1427	1418
X290	F	000062AC	4	9068	9059
X291	F	000062F4	4	9097	9088
X292	F	0000633C	4	9126	9117
X293	F	00006384	4	9155	9146
X294	F	000063CC	4	9184	9175
X295	F	00006414	4	9213	9204
X296	F	0000645C	4	9242	9233

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X297	F	000064A4	4	9273	9264
X298	F	000064EC	4	9302	9293
X299	F	00006534	4	9331	9322
X3	F	000011F4	4	699	690
X30	F	0000198C	4	1456	1447
X300	F	0000657C	4	9360	9351
X301	F	000065C4	4	9390	9381
X302	F	0000660C	4	9419	9410
X303	F	00006654	4	9448	9439
X304	F	0000669C	4	9477	9468
X305	F	000066E4	4	9506	9497
X306	F	0000672C	4	9535	9526
X307	F	00006774	4	9564	9555
X308	F	000067BC	4	9593	9584
X309	F	00006804	4	9622	9613
X31	F	000019D4	4	1485	1476
X310	F	0000684C	4	9653	9644
X311	F	00006894	4	9682	9673
X312	F	000068DC	4	9711	9702
X313	F	00006924	4	9740	9731
X314	F	0000696C	4	9770	9761
X315	F	000069B4	4	9799	9790
X316	F	000069FC	4	9828	9819
X317	F	00006A44	4	9857	9848
X318	F	00006A8C	4	9886	9877
X319	F	00006AD4	4	9915	9906
X32	F	00001A1C	4	1514	1505
X320	F	00006B1C	4	9944	9935
X321	F	00006B64	4	9973	9964
X322	F	00006BAC	4	10002	9993
X323	F	00006BF4	4	10031	10022
X324	F	00006C3C	4	10065	10056
X325	F	00006C84	4	10094	10085
X326	F	00006CCC	4	10123	10114
X327	F	00006D14	4	10152	10143
X328	F	00006D5C	4	10181	10172
X329	F	00006DA4	4	10210	10201
X33	F	00001A64	4	1543	1534
X330	F	00006DEC	4	10239	10230
X331	F	00006E34	4	10268	10259
X332	F	00006E7C	4	10299	10290
X333	F	00006EC4	4	10328	10319
X334	F	00006F0C	4	10357	10348
X335	F	00006F54	4	10386	10377
X336	F	00006F9C	4	10416	10407
X337	F	00006FE4	4	10445	10436
X338	F	0000702C	4	10474	10465
X339	F	00007074	4	10503	10494
X34	F	00001AAC	4	1572	1563
X340	F	000070BC	4	10532	10523
X341	F	00007104	4	10561	10552
X342	F	0000714C	4	10590	10581
X343	F	00007194	4	10619	10610
X344	F	000071DC	4	10648	10639
X345	F	00007224	4	10677	10668
X346	F	0000726C	4	10708	10699

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X347	F	000072B4	4	10737	10728
X348	F	000072FC	4	10766	10757
X349	F	00007344	4	10795	10786
X35	F	00001AF4	4	1602	1593
X350	F	0000738C	4	10824	10815
X351	F	000073D4	4	10854	10845
X352	F	0000741C	4	10883	10874
X353	F	00007464	4	10912	10903
X354	F	000074AC	4	10941	10932
X355	F	000074F4	4	10970	10961
X356	F	0000753C	4	10999	10990
X357	F	00007584	4	11028	11019
X358	F	000075CC	4	11057	11048
X359	F	00007614	4	11086	11077
X36	F	00001B3C	4	1631	1622
X360	F	0000765C	4	11115	11106
X361	F	000076A4	4	11146	11137
X362	F	000076EC	4	11175	11166
X363	F	00007734	4	11204	11195
X364	F	0000777C	4	11233	11224
X365	F	000077C4	4	11263	11254
X366	F	0000780C	4	11292	11283
X367	F	00007854	4	11321	11312
X368	F	0000789C	4	11350	11341
X369	F	000078E4	4	11379	11370
X37	F	00001B84	4	1660	1651
X370	F	0000792C	4	11408	11399
X371	F	00007974	4	11437	11428
X372	F	000079BC	4	11466	11457
X373	F	00007A04	4	11495	11486
X374	F	00007A4C	4	11524	11515
X375	F	00007A94	4	11553	11544
X38	F	00001BCC	4	1689	1680
X39	F	00001C14	4	1718	1709
X4	F	0000123C	4	721	712
X40	F	00001C5C	4	1747	1738
X41	F	00001CA4	4	1776	1767
X42	F	00001CEC	4	1805	1796
X43	F	00001D34	4	1834	1825
X44	F	00001D7C	4	1863	1854
X45	F	00001DC4	4	1896	1887
X46	F	00001E0C	4	1925	1916
X47	F	00001E54	4	1954	1945
X48	F	00001E9C	4	1983	1974
X49	F	00001EE4	4	2012	2003
X5	F	00001284	4	744	735
X50	F	00001F2C	4	2041	2032
X51	F	00001F74	4	2070	2061
X52	F	00001FBC	4	2099	2090
X53	F	00002004	4	2130	2121
X54	F	0000204C	4	2159	2150
X55	F	00002094	4	2188	2179
X56	F	000020DC	4	2218	2209
X57	F	00002124	4	2247	2238
X58	F	0000216C	4	2276	2267
X59	F	000021B4	4	2305	2296

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES				
X6	F	000012CC	4	766	757				
X60	F	000021FC	4	2334	2325				
X61	F	00002244	4	2363	2354				
X62	F	0000228C	4	2392	2383				
X63	F	000022D4	4	2421	2412				
X64	F	0000231C	4	2450	2441				
X65	F	00002364	4	2479	2470				
X66	F	000023AC	4	2510	2501				
X67	F	000023F4	4	2539	2530				
X68	F	0000243C	4	2568	2559				
X69	F	00002484	4	2598	2589				
X7	F	00001314	4	789	780				
X70	F	000024CC	4	2627	2618				
X71	F	00002514	4	2656	2647				
X72	F	0000255C	4	2685	2676				
X73	F	000025A4	4	2714	2705				
X74	F	000025EC	4	2743	2734				
X75	F	00002634	4	2772	2763				
X76	F	0000267C	4	2801	2792				
X77	F	000026C4	4	2830	2821				
X78	F	0000270C	4	2859	2850				
X79	F	00002754	4	2890	2881				
X8	F	0000135C	4	811	802				
X80	F	0000279C	4	2919	2910				
X81	F	000027E4	4	2948	2939				
X82	F	0000282C	4	2978	2969				
X83	F	00002874	4	3007	2998				
X84	F	000028BC	4	3036	3027				
X85	F	00002904	4	3065	3056				
X86	F	0000294C	4	3094	3085				
X87	F	00002994	4	3123	3114				
X88	F	000029DC	4	3152	3143				
X89	F	00002A24	4	3181	3172				
X9	F	000013A4	4	845	836				
X90	F	00002A6C	4	3210	3201				
X91	F	00002AB4	4	3239	3230				
X92	F	00002AFC	4	3268	3259				
X93	F	00002B44	4	3301	3292				
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X96	F	00002C1C	4	3388	3379				
X97	F	00002C64	4	3417	3408				
X98	F	00002CAC	4	3446	3437				
X99	F	00002CF4	4	3475	3466				
XC0001	U	000002D8	1	203	195				
XC0002	U	00000398	1	236	228				
ZVE6TST	J	00000000	32944	115	118	120	124	128	436	116
=A(E6TESTS)	A	00000594	4	413	242				
=AL2(L'MSGMSG)	R	0000059E	2	416	362				
=F'1'	F	00000590	4	412	227	312			
=F'2'	F	0000058C	4	411	194				
=H'0'	H	0000059C	2	415	357				
=XL4'3'	X	00000598	4	414	275				

MACRO	DEFN	REFERENCES													
FCHECK	67	176	209												
PTTABLE	604	11580													
VRR_G	542	642	664	687	709	732	754	777	799	833	862	891	920	949	978
		1007	1036	1066	1095	1124	1153	1182	1211	1240	1269	1298	1328	1357	1386
		1415	1444	1473	1502	1531	1560	1590	1619	1648	1677	1706	1735	1764	1793
		1822	1851	1884	1913	1942	1971	2000	2029	2058	2087	2118	2147	2176	2206
		2235	2264	2293	2322	2351	2380	2409	2438	2467	2498	2527	2556	2586	2615
		2644	2673	2702	2731	2760	2789	2818	2847	2878	2907	2936	2966	2995	3024
		3053	3082	3111	3140	3169	3198	3227	3256	3289	3318	3347	3376	3405	3434
		3463	3492	3523	3552	3582	3611	3640	3669	3698	3727	3756	3785	3814	3845
		3874	3904	3933	3962	3991	4020	4049	4078	4107	4136	4167	4196	4226	4255
		4284	4313	4342	4371	4400	4429	4458	4487	4520	4549	4578	4607	4636	4665
		4694	4723	4754	4783	4812	4842	4871	4900	4929	4958	4987	5016	5045	5074
		5103	5134	5163	5192	5222	5251	5280	5309	5338	5367	5396	5425	5454	5483
		5514	5543	5572	5602	5631	5660	5689	5718	5747	5776	5805	5834	5863	5892
		5924	5953	5982	6011	6040	6069	6098	6127	6158	6187	6216	6246	6275	6304
		6333	6362	6391	6420	6449	6478	6509	6538	6567	6596	6626	6655	6684	6713
		6742	6771	6800	6829	6858	6889	6918	6947	6976	7006	7035	7064	7093	7122
		7151	7180	7209	7238	7267	7300	7329	7358	7387	7416	7445	7474	7503	7534
		7563	7592	7622	7651	7680	7709	7738	7767	7796	7825	7854	7885	7914	7943
		7972	8002	8031	8060	8089	8118	8147	8176	8205	8234	8265	8294	8323	8352
		8382	8411	8440	8469	8498	8527	8556	8585	8614	8643	8676	8705	8734	8763
		8792	8821	8850	8879	8910	8939	8968	8998	9027	9056	9085	9114	9143	9172
		9201	9230	9261	9290	9319	9348	9378	9407	9436	9465	9494	9523	9552	9581
		9610	9641	9670	9699	9728	9758	9787	9816	9845	9874	9903	9932	9961	9990
		10019	10053	10082	10111	10140	10169	10198	10227	10256	10287	10316	10345	10374	10404
		10433	10462	10491	10520	10549	10578	10607	10636	10665	10696	10725	10754	10783	10812
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		11251	11280	11309	11338	11367	11396	11425	11454	11483	11512	11541			
VTPX	523	847	876	905	934	963	992	1021	1050	1080	1109	1138	1167	1196	1225
		1254	1283	1312	1342	1371	1400	1429	1458	1487	1516	1545	1574	1604	1633
		1662	1691	1720	1749	1778	1807	1836	1865	1898	1927	1956	1985	2014	2043
		2072	2101	2132	2161	2190	2220	2249	2278	2307	2336	2365	2394	2423	2452
		2481	2512	2541	2570	2600	2629	2658	2687	2716	2745	2774	2803	2832	2861
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		3303	3332	3361	3390	3419	3448	3477	3506	3537	3566	3596	3625	3654	3683
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		4121	4150	4181	4210	4240	4269	4298	4327	4356	4385	4414	4443	4472	4501
		4534	4563	4592	4621	4650	4679	4708	4737	4768	4797	4826	4856	4885	4914
		4943	4972	5001	5030	5059	5088	5117	5148	5177	5206	5236	5265	5294	5323
		5352	5381	5410	5439	5468	5497	5528	5557	5586	5616	5645	5674	5703	5732
		5761	5790	5819	5848	5877	5906	5938	5967	5996	6025	6054	6083	6112	6141
		6172	6201	6230	6260	6289	6318	6347	6376	6405	6434	6463	6492	6523	6552
		6581	6610	6640	6669	6698	6727	6756	6785	6814	6843	6872	6903	6932	6961
		6990	7020	7049	7078	7107	7136	7165	7194	7223	7252	7281	7314	7343	7372
		7401	7430	7459	7488	7517	7548	7577	7606	7636	7665	7694	7723	7752	7781
		7810	7839	7868	7899	7928	7957	7986	8016	8045	8074	8103	8132	8161	8190
		8219	8248	8279	8308	8337	8366	8396	8425	8454	8483	8512	8541	8570	8599
		8628	8657	8690	8719	8748	8777	8806	8835	8864	8893	8924	8953	8982	9012
		9041	9070	9099	9128	9157	9186	9215	9244	9275	9304	9333	9362	9392	9421
		9450	9479	9508	9537	9566	9595	9624	9655	9684	9713	9742	9772	9801	9830
		9859	9888	9917	9946	9975	10004	10033	10067	10096	10125	10154	10183	10212	10241
		10270	10301	10330	10359	10388	10418	10447	10476	10505	10534	10563	10592	10621	10650
		10679	10710	10739	10768	10797	10826	10856	10885	10914	10943	10972	11001	11030	11059
		11088	11117	11148	11177	11206	11235	11265	11294	11323	11352	11381	11410	11439	11468
		11497	11526	11555											

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   DESC     SYMBOL   SIZE     POS        ADDR

Entry: 0

Image      IMAGE    32944  0000-80AF  0000-80AF
  Region            32944  0000-80AF  0000-80AF
    CSECT  ZVE6TST  32944  0000-80AF  0000-80AF
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   STMT                        FILE NAME
1     /devstor/sharedvfp/tests/zvector-e6-14-testdecimal.asm

** NO ERRORS FOUND **
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