```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                     2 ************************************************************************
                                                     3 *
                                                     4 *        Zvector E6 instruction tests for VRR-i encoded:
                                                     5 *
                                                     6 *        E650 VCVB    - VECTOR CONVERT TO BINARY  (32)
                                                     7 *        E652 VCVBG   - VECTOR CONVERT TO BINARY  (64)
                                                     8 *
                                                     9 *        James Wekel June 2024
                                                    10 *                   March 2025 - packed-decimal-enhancements facility 3
                                                    11 ************************************************************************
                                                    12
                                                    13 ************************************************************************
                                                    14 *
                                                    15 *        basic instruction tests
                                                    16 *
                                                    17 ************************************************************************
                                                    18 *  This program tests proper functioning of the z/arch E6 VRR-i vector
                                                    19 *  convert to binary instructions. Exceptions are not tested.
                                                    20 *
                                                    21 *  PLEASE NOTE that the tests are very SIMPLE TESTS designed to catch
                                                    22 *  obvious coding errors.  None of the tests are thorough.  They are
                                                    23 *  NOT designed to test all aspects of any of the instructions.
                                                    24 *
                                                    25 ************************************************************************
                                                    26 *
                                                    27 *   *Testcase zvector-e6-11-convertbinary: VECTOR E6 VRR-i instruction
                                                    28 *   *
                                                    29 *   *   Zvector E6 tests for VRR-i encoded instruction:
                                                    30 *   *
                                                    31 *   *   E650 VCVB    - VECTOR CONVERT TO BINARY  (32)
                                                    32 *   *   E652 VCVBG   - VECTOR CONVERT TO BINARY  (64)
                                                    33 *   *
                                                    34 *   *   # -------------------------------------------------------
                                                    35 *   *   #  This tests only the basic function of the instruction.
                                                    36 *   *   #  Exceptions are NOT tested.
                                                    37 *   *   # -------------------------------------------------------
                                                    38 *   *
                                                    39 *   mainsize    2
                                                    40 *   numcpu      1
                                                    41 *   sysclear
                                                    42 *   archlvl     z/Arch
                                                    43 *
                                                    44 *   diag8cmd    enable    # (needed for messages to Hercules console)
                                                    45 *   loadcore    "$(testpath)/zvector-e6-11-convertbinary.core" 0x0
                                                    46 *   diag8cmd    disable   # (reset back to default)
                                                    47 *
                                                    48 *   *Done
                                                    49 ************************************************************************
```

```
 LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   51 ************************************************************************
                                                   52 *        FCHECK Macro - Is a Facility Bit set?
                                                   53 *
                                                   54 *        If the facility bit is NOT set, an message is issued and
                                                   55 *        the test is skipped.
                                                   56 *
                                                   57 *        Fcheck uses R0, R1 and R2
                                                   58 *
                                                   59 * eg.    FCHECK 134,'vector-packed-decimal'
                                                   60 ************************************************************************
                                                   61         MACRO
                                                   62         FCHECK &BITNO,&NOTSETMSG
                                                   63 .*                        &BITNO : facility bit number to check
                                                   64 .*                        &NOTSETMSG : 'facility name'
                                                   65         LCLA  &FBBYTE           Facility bit in Byte
                                                   66         LCLA  &FBBIT            Facility bit within Byte
                                                   67
                                                   68         LCLA  &L(8)
                                                   69 &L(1)   SetA  128,64,32,16,8,4,2,1  bit positions within byte
                                                   70
                                                   71 &FBBYTE SETA  &BITNO/8
                                                   72 &FBBIT  SETA  &L((&BITNO-(&FBBYTE*8))+1)
                                                   73 .*      MNOTE 0,'checking Bit=&BITNO: FBBYTE=&FBBYTE, FBBIT=&FBBIT'
                                                   74
                                                   75         B     X&SYSNDX
                                                   76 *                                       Fcheck data area
                                                   77 *                                       skip messgae
                                                   78 SKT&SYSNDX DC  C'          Skipping tests: '
                                                   79         DC    C&NOTSETMSG
                                                   80         DC    C' facility (bit &BITNO) is not installed.'
                                                   81 SKL&SYSNDX EQU *-SKT&SYSNDX
                                                   82 *                                       facility bits
                                                   83         DS    FD                       gap
                                                   84 FB&SYSNDX DS   4FD
                                                   85         DS    FD                       gap
                                                   86 *
                                                   87 X&SYSNDX EQU *
                                                   88         LA    R0,((X&SYSNDX-FB&SYSNDX)/8)-1
                                                   89         STFLE FB&SYSNDX                get facility bits
                                                   90
                                                   91         XGR   R0,R0
                                                   92         IC    R0,FB&SYSNDX+&FBBYTE     get fbit byte
                                                   93         N     R0,=F'&FBBIT'            is bit set?
                                                   94         BNZ   XC&SYSNDX
                                                   95 *
                                                   96 * facility bit not set, issue message and exit
                                                   97 *
                                                   98         LA    R0,SKL&SYSNDX            message length
                                                   99         LA    R1,SKT&SYSNDX            message address
                                                  100         BAL   R2,MSG
                                                  101
                                                  102         B     EOJ
                                                  103 XC&SYSNDX EQU *
                                                  104         MEND
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2    STMT

                                                   106 ************************************************************************
                                                   107 *        Low core PSWs
                                                   108 ************************************************************************


                             00000000  00006177   110 ZVE6TST  START 0
00000000                     00000000              111          USING ZVE6TST,R0            Low core addressability
                                                   112
                             00000140  00000000   113 SVOLDPSW EQU   ZVE6TST+X'140'        z/Arch Supervisor call old PSW


00000000                     00000000  000001A0   115          ORG   ZVE6TST+X'1A0'        z/Architecure RESTART PSW
000001A0  00000001 80000000                        116          DC    X'0000000180000000'
000001A8  00000000 00000200                        117          DC    AD(BEGIN)


000001B0                     000001B0  000001D0   119          ORG   ZVE6TST+X'1D0'        z/Architecure PROGRAM CHECK PSW
000001D0  00020001 80000000                        120          DC    X'0002000180000000'
000001D8  00000000 0000DEAD                        121          DC    AD(X'DEAD')


000001E0                     000001E0  00000200   123          ORG   ZVE6TST+X'200'        Start of actual test program...
                                                   124
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    126 ************************************************************************
                                                    127 *                The actual "ZVE6TST" program itself...
                                                    128 ************************************************************************
                                                    129 *
                                                    130 *  Architecture Mode: z/Arch
                                                    131 *  Register Usage:
                                                    132 *
                                                    133 *   R0       (work)
                                                    134 *   R1-4     (work)
                                                    135 *   R5       Testing control table - current test base
                                                    136 *   R6-R7    (work)
                                                    137 *   R8       First base register
                                                    138 *   R9       Second base register
                                                    139 *   R10      Third base register
                                                    140 *   R11      E6TEST call return
                                                    141 *   R12      E6TESTS register
                                                    142 *   R13      (work)
                                                    143 *   R14      Subroutine call
                                                    144 *   R15      Secondary Subroutine call or work
                                                    145 *
                                                    146 ************************************************************************

00000200                        00000200            148          USING  BEGIN,R8        FIRST Base Register
00000200                        00001200            149          USING  BEGIN+4096,R9   SECOND Base Register
00000200                        00002200            150          USING  BEGIN+8192,R10  THIRD Base Register
                                                    151
00000200  0580                                      152 BEGIN    BALR   R8,0            Initalize FIRST base register
00000202  0680                                      153          BCTR   R8,0            Initalize FIRST base register
00000204  0680                                      154          BCTR   R8,0            Initalize FIRST base register
                                                    155
00000206  4190 8800                       00000800  156          LA     R9,2048(,R8)    Initalize SECOND base register
0000020A  4190 9800                       00000800  157          LA     R9,2048(,R9)    Initalize SECOND base register
                                                    158
0000020E  41A0 9800                       00000800  159          LA     R10,2048(,R9)   Initalize THIRD base register
00000212  41A0 A800                       00000800  160          LA     R10,2048(,R10)  Initalize THIRD base register
                                                    161
00000216  B600 8414                       00000614  162          STCTL  R0,R0,CTLR0     Store CR0 to enable AFP
0000021A  9604 8415                       00000615  163          OI     CTLR0+1,X'04'   Turn on AFP bit
0000021E  9602 8415                       00000615  164          OI     CTLR0+1,X'02'   Turn on Vector bit
00000222  B700 8414                       00000614  165          LCTL   R0,R0,CTLR0     Reload updated CR0
                                                    166
                                                    167 ************************************************************************
                                                    168 * Is Vector packed-decimal facility installed  (bit 134)
                                                    169 ************************************************************************
                                                    170
                                                    171          FCHECK 134,'vector-packed-decimal'
00000226  47F0 80B0                       000002B0  172+         B      X0001
                                                    173+*                                   Fcheck data area
                                                    174+*                                   skip messgae
0000022A  40404040 40404040                         175+SKT0001  DC     C'          Skipping tests: '
00000244  A58583A3 96996097                         176+         DC     C'vector-packed-decimal'
00000259  40868183 899389A3                         177+         DC     C' facility (bit 134) is not installed.'
                                 00000054  00000001 178+SKL0001  EQU    *-SKT0001
                                                    179+*                                   facility bits
00000280  00000000 00000000                         180+         DS     FD                 gap
00000288  00000000 00000000                         181+FB0001   DS     4FD
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2    STMT

000002A8  00000000 00000000                        182+         DS    FD                      gap
                                                   183+*
                              000002B0  00000001   184+X0001    EQU   *
000002B0  4100 0004                     00000004   185+         LA    R0,((X0001-FB0001)/8)-1
000002B4  B2B0 8088                     00000288   186+         STFLE FB0001                  get facility bits
000002B8  B982 0000                                187+         XGR   R0,R0
000002BC  4300 8098                     00000298   188+         IC    R0,FB0001+16            get fbit byte
000002C0  5400 841C                     0000061C   189+         N     R0,=F'2'                is bit set?
000002C4  4770 80D8                     000002D8   190+         BNZ   XC0001
                                                   191+*
                                                   192+* facility bit not set, issue message and exit
                                                   193+*
000002C8  4100 0054                     00000054   194+         LA    R0,SKL0001              message length
000002CC  4110 802A                     0000022A   195+         LA    R1,SKT0001              message address
000002D0  4520 8330                     00000530   196+         BAL   R2,MSG
000002D4  47F0 83F8                     000005F8   197+         B     EOJ
                              000002D8  00000001   198+XC0001   EQU   *
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   200 ************************************************************************
                                                   201 * Is Vector packed-decimal enhancement 3 facility installed  (bit 199)
                                                   202 ************************************************************************
                                                   203
                                                   204          FCHECK 199,'vector packed-decimal-enhancement 3'
000002D8  47F0 8170                    00000370    205+         B     X0002
                                                   206+*                                     Fcheck data area
                                                   207+*                                     skip messgae
000002DC  40404040 40404040                        208+SKT0002  DC    C'          Skipping tests: '
000002F6  A58583A3 96994097                        209+         DC    C'vector packed-decimal-enhancement 3'
00000319  40868183 899389A3                        210+         DC    C' facility (bit 199) is not installed.'
                             00000062  00000001    211+SKL0002  EQU   *-SKT0002
                                                   212+*                                     facility bits
00000340  00000000 00000000                        213+         DS    FD                    gap
00000348  00000000 00000000                        214+FB0002   DS    4FD
00000368  00000000 00000000                        215+         DS    FD                    gap
                                                   216+*
                             00000370  00000001    217+X0002    EQU   *
00000370  4100 0004                    00000004    218+         LA    R0,((X0002-FB0002)/8)-1
00000374  B2B0 8148                    00000348    219+         STFLE FB0002                get facility bits
00000378  B982 0000                                220+         XGR   R0,R0
0000037C  4300 8160                    00000360    221+         IC    R0,FB0002+24          get fbit byte
00000380  5400 8420                    00000620    222+         N     R0,=F'1'              is bit set?
00000384  4770 8198                    00000398    223+         BNZ   XC0002
                                                   224+*
                                                   225+* facility bit not set, issue message and exit
                                                   226+*
00000388  4100 0062                    00000062    227+         LA    R0,SKL0002            message length
0000038C  4110 80DC                    000002DC    228+         LA    R1,SKT0002            message address
00000390  4520 8330                    00000530    229+         BAL   R2,MSG
00000394  47F0 83F8                    000005F8    230+         B     EOJ
                             00000398  00000001    231+XC0002   EQU   *
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT
                                                   233 ***********************************************************************
                                                   234 *               Do tests in the E6TESTS table
                                                   235 ***********************************************************************
                                                   236
00000398  58C0 8424                      00000624  237          L     R12,=A(E6TESTS)       get table of test addresses
                                                   238
                              0000039C  00000001  239 NEXTE6   EQU   *
0000039C  5850 C000                      00000000  240          L     R5,0(0,R12)       get test address
000003A0  1255                                     241          LTR   R5,R5                  have a test?
000003A2  4780 82EA                      000004EA  242          BZ    ENDTEST                   done?
                                                   243
000003A6  B982 0000                                244          XGR   R0,R0             no cc error
                                                   245
000003AA                      00000000             246          USING E6TEST,R5
                                                   247
000003AA  4800 5004                      00000004  248          LH    R0,TNUM           save current test number
000003AE  5000 8E04                      00001004  249          ST    R0,TESTING        for easy reference
                                                   250
000003B2  58B0 5000                      00000000  251          L     R11,TSUB          get address of test routine
000003B6  05BB                                     252          BALR  R11,R11           do test
                                                   253
000003B8  E310 500A 0076                 0000000A  254          LB    R1,CCMASK         (failure CC mask)
000003BE  8910 0004                      00000004  255          SLL   R1,4              (shift to BC instr CC position)
000003C2  4410 81DE                      000003DE  256          EX    R1,TESTCC            fail if...
                                                   257
                              000003C6  00000001  258 TESTREST EQU   *
000003C6  E310 5018 0014                 00000018  259          LGF   R1,READDR         get address of expected result
000003CC  D507 5028 1000      00000028  00000000  260          CLC   R1OUTPUT,0(R1)    valid?
000003D2  4770 8272                      00000472  261          BNE   FAILMSG               no, issue failed message
                                                   262
000003D6  41C0 C004                      00000004  263          LA    R12,4(0,R12)      next test address
000003DA  47F0 819C                      0000039C  264          B     NEXTE6
                                                   265
000003DE  4700 81E2                      000003E2  266 TESTCC   BC    0,CCMSG          (fail if unexpected condition code)
                                                   267
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2    STMT
                                                   269 ***********************************************************************
                                                   270 * cc was not as expected
                                                   271 ***********************************************************************
                              000003E2  00000001   272 CCMSG    EQU   *
000003E2  E310 0001 0082                00000001   273         XG    R1,R1
000003E8  E310 5007 0076                00000007   274         LB    R1,M3          m3 has CS bit
000003EE  5410 8420                     00000620   275         N     R1,=F'1'       get CS (CC set) bit
000003F2  4780 81C6                     000003C6   276         BZ    TESTREST          ignore if not set
                                                   277 *
                                                   278 * extract CC extracted PSW
                                                   279 *
000003F6  5810 8EE4                     000010E4   280         L     R1,CCPSW
000003FA  8810 000C                     0000000C   281         SRL   R1,12
000003FE  5410 8428                     00000628   282         N     R1,=XL4'3'
00000402  4210 8EEC                     000010EC   283         STC   R1,CCFOUND     save cc
                                                   284 *
                                                   285 * FILL IN MESSAGE
                                                   286 *
00000406  4820 5004                     00000004   287         LH    R2,TNUM                 get test number and convert
0000040A  4E20 8ED4                     000010D4   288         CVD   R2,DECNUM
0000040E  D211 8EBE 8EA8      000010BE  000010A8   289         MVC   PRT3,EDIT
00000414  DE11 8EBE 8ED4      000010BE  000010D4   290         ED    PRT3,DECNUM
0000041A  D202 8E63 8ECB      00001063  000010CB   291         MVC   CCPRTNUM(3),PRT3+13     fill in message with test #
                                                   292
00000420  D207 8E80 500B      00001080  0000000B   293         MVC   CCPRTNAME,OPNAME        fill in message with instruction
                                                   294
00000426  B982 0022                                295         XGR   R2,R2                   get CC as U8
0000042A  4320 5009                     00000009   296         IC    R2,CC
0000042E  4E20 8ED4                     000010D4   297         CVD   R2,DECNUM               and convert
00000432  D211 8EBE 8EA8      000010BE  000010A8   298         MVC   PRT3,EDIT
00000438  DE11 8EBE 8ED4      000010BE  000010D4   299         ED    PRT3,DECNUM
0000043E  D200 8E96 8ECD      00001096  000010CD   300         MVC   CCPRTEXP(1),PRT3+15     fill in message with CC field
                                                   301
00000444  B982 0022                                302         XGR   R2,R2                   get CCFOUND as U8
00000448  4320 8EEC                     000010EC   303         IC    R2,CCFOUND
0000044C  4E20 8ED4                     000010D4   304         CVD   R2,DECNUM               and convert
00000450  D211 8EBE 8EA8      000010BE  000010A8   305         MVC   PRT3,EDIT
00000456  DE11 8EBE 8ED4      000010BE  000010D4   306         ED    PRT3,DECNUM
0000045C  D200 8EA6 8ECD      000010A6  000010CD   307         MVC   CCPRTGOT(1),PRT3+15    fill in message with ccfound
                                                   308
00000462  4100 0055                     00000055   309         LA    R0,CCPRTLNG            message length
00000466  4110 8E53                     00001053   310         LA    R1,CCPRTLINE           messagfe address
0000046A  45F0 82F8                     000004F8   311         BAL   R15,RPTERROR
                                                   312
0000046E  47F0 82DA                     000004DA   313         B     FAILCONT
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    315 ***********************************************************************
                                                    316 * result not as expected:
                                                    317 *        issue message with test number, instruction under test
                                                    318 *               and instruction l2
                                                    319 ***********************************************************************
                                00000472  00000001  320 FAILMSG  EQU   *
00000472  4820 5004                         00000004  321          LH    R2,TNUM              get test number and convert
00000476  4E20 8ED4                         000010D4  322          CVD   R2,DECNUM
0000047A  D211 8EBE 8EA8        000010BE    000010A8  323          MVC   PRT3,EDIT
00000480  DE11 8EBE 8ED4        000010BE    000010D4  324          ED    PRT3,DECNUM
00000486  D202 8E18 8ECB        00001018    000010CB  325          MVC   PRTNUM(3),PRT3+13    fill in message with test #
                                                    326
0000048C  D207 8E33 500B        00001033    0000000B  327          MVC   PRTNAME,OPNAME       fill in message with instruction
                                                    328
00000492  B982 0022                                 329          XGR   R2,R2                get M3 as U8
00000496  4320 5007                         00000007  330          IC    R2,M3                and convert
0000049A  4E20 8ED4                         000010D4  331          CVD   R2,DECNUM
0000049E  D211 8EBE 8EA8        000010BE    000010A8  332          MVC   PRT3,EDIT
000004A4  DE11 8EBE 8ED4        000010BE    000010D4  333          ED    PRT3,DECNUM
000004AA  D201 8E44 8ECC        00001044    000010CC  334          MVC   PRTM3(2),PRT3+14     fill in message with m3 field
                                                    335
000004B0  B982 0022                                 336          XGR   R2,R2                get M4 as U8
000004B4  4320 5008                         00000008  337          IC    R2,M4                and convert
000004B8  4E20 8ED4                         000010D4  338          CVD   R2,DECNUM
000004BC  D211 8EBE 8EA8        000010BE    000010A8  339          MVC   PRT3,EDIT
000004C2  DE11 8EBE 8ED4        000010BE    000010D4  340          ED    PRT3,DECNUM
000004C8  D201 8E50 8ECC        00001050    000010CC  341          MVC   PRTM4(2),PRT3+14     fill in message with m4 field
                                                    342
000004CE  4100 004B                         0000004B  343          LA    R0,PRTLNG            message length
000004D2  4110 8E08                         00001008  344          LA    R1,PRTLINE           messagfe address
000004D6  45F0 82F8                         000004F8  345          BAL   R15,RPTERROR


                                                    347 ***********************************************************************
                                                    348 * continue after a failed test
                                                    349 ***********************************************************************
                                000004DA  00000001  350 FAILCONT EQU   *
000004DA  5800 8420                         00000620  351          L     R0,=F'1'          set GLOBAL failed test indicator
000004DE  5000 8E00                         00001000  352          ST    R0,FAILED
                                                    353
000004E2  41C0 C004                         00000004  354          LA    R12,4(0,R12)      next test address
000004E6  47F0 819C                         0000039C  355          B     NEXTE6


                                                    357 ***********************************************************************
                                                    358 * end of testing; set ending psw
                                                    359 ***********************************************************************
                                000004EA  00000001  360 ENDTEST  EQU   *
000004EA  5810 8E00                         00001000  361          L     R1,FAILED         did a test fail?
000004EE  1211                                      362          LTR   R1,R1
000004F0  4780 83F8                         000005F8  363          BZ    EOJ                  No, exit
000004F4  47F0 8410                         00000610  364          B     FAILTEST             Yes, exit with BAD PSW
                                                    365
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   367 ************************************************************************
                                                   368 *        RPTERROR          Report instruction test in error
                                                   369 *                              R0 = MESSGAE LENGTH
                                                   370 *                              R1 = ADDRESS OF MESSAGE
                                                   371 ************************************************************************

000004F8  50F0 8318                     00000518   373 RPTERROR ST    R15,RPTSAVE          Save return address
000004FC  5050 831C                     0000051C   374          ST    R5,RPTSVR5           Save R5
                                                   375 *
                                                   376 *        Use Hercules Diagnose for Message to console
                                                   377 *
00000500  9002 8320                     00000520   378          STM   R0,R2,RPTDWSAV       save regs used by MSG
00000504  4520 8330                     00000530   379          BAL   R2,MSG               call Hercules console MSG display
00000508  9802 8320                     00000520   380          LM    R0,R2,RPTDWSAV       restore regs


0000050C  5850 831C                     0000051C   382          L     R5,RPTSVR5           Restore R5
00000510  58F0 8318                     00000518   383          L     R15,RPTSAVE          Restore return address
00000514  07FF                                     384          BR    R15                  Return to caller

00000518  00000000                                 386 RPTSAVE  DC    F'0'                 R15 save area
0000051C  00000000                                 387 RPTSVR5  DC    F'0'                 R5 save area

00000520  00000000 00000000                        389 RPTDWSAV DC    2D'0'                R0-R2 save area for MSG call
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    391 ************************************************************************
                                                    392 *        Issue HERCULES MESSAGE pointed to by R1, length in R0
                                                    393 *              R2 = return address
                                                    394 ************************************************************************
                                                    395
00000530  4900 842C                   0000062C      396 MSG      CH    R0,=H'0'                Do we even HAVE a message?
00000534  07D2                                      397          BNHR  R2                      No, ignore
                                                    398
00000536  9002 836C                   0000056C      399          STM   R0,R2,MSGSAVE           Save registers
                                                    400
0000053A  4900 842E                   0000062E      401          CH    R0,=AL2(L'MSGMSG)       Message length within limits?
0000053E  47D0 8346                   00000546      402          BNH   MSGOK                   Yes, continue
00000542  4100 005F                   0000005F      403          LA    R0,L'MSGMSG             No, set to maximum
                                                    404
00000546  1820                                      405 MSGOK    LR    R2,R0                   Copy length to work register
00000548  0620                                      406          BCTR  R2,0                    Minus-1 for execute
0000054A  4420 8378                   00000578      407          EX    R2,MSGMVC               Copy message to O/P buffer
                                                    408
0000054E  4120 200A                   0000000A      409          LA    R2,1+L'MSGCMD(,R2)      Calculate true command length
00000552  4110 837E                   0000057E      410          LA    R1,MSGCMD               Point to true command
                                                    411
00000556  83120008                                  412          DC    X'83',X'12',X'0008'     Issue Hercules Diagnose X'008'
0000055A  4780 8366                   00000566      413          BZ    MSGRET                  Return if successful
                                                    414
0000055E  1222                                      415          LTR   R2,R2                   Is Diag8 Ry (R2) 0?
00000560  4780 8366                   00000566      416          BZ    MSGRET                    an error occurred but coninue
                                                    417
00000564  0000                                      418          DC    H'0'                    CRASH for debugging purposes
                                                    419
00000566  9802 836C                   0000056C      420 MSGRET   LM    R0,R2,MSGSAVE           Restore registers
0000056A  07F2                                      421          BR    R2                      Return to caller


0000056C  00000000 00000000                         423 MSGSAVE  DC    3F'0'                   Registers save area
00000578  D200 8387 1000      00000587  00000000    424 MSGMVC   MVC   MSGMSG(0),0(R1)          Executed instruction

0000057E  D4E2C7D5 D6C8405C                         426 MSGCMD   DC    C'MSGNOH * '            *** HERCULES MESSAGE COMMAND ***
00000587  40404040 40404040                         427 MSGMSG   DC    CL95' '                 The message text to be displayed
                                                    428
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    430 ************************************************************************
                                                    431 *        Normal completion or Abnormal termination PSWs
                                                    432 ************************************************************************


000005E8  00020001 80000000                         434 EOJPSW   DC    0D'0',X'0002000180000000',AD(0)

000005F8  B2B2 83E8                       000005E8  436 EOJ      LPSWE EOJPSW               Normal completion


00000600  00020001 80000000                         438 FAILPSW  DC    0D'0',X'0002000180000000',AD(X'BAD')

00000610  B2B2 8400                       00000600  440 FAILTEST LPSWE FAILPSW              Abnormal termination


                                                    442 ************************************************************************
                                                    443 *        Working Storage
                                                    444 ************************************************************************


00000614  00000000                                  446 CTLR0    DS    F                    CR0
00000618  00000000                                  447          DS    F


0000061C                                            449          LTORG ,                    Literals pool
0000061C  00000002                                  450                F'2'
00000620  00000001                                  451                F'1'
00000624  00005ED4                                  452                A(E6TESTS)
00000628  00000003                                  453                XL4'3'
0000062C  0000                                      454                H'0'
0000062E  005F                                      455                AL2(L'MSGMSG)
                                                    456
                                                    457 *        some constants
                                                    458
                                  00000400  00000001 459 K        EQU   1024                 One KB
                                  00001000  00000001 460 PAGE     EQU   (4*K)                Size of one page
                                  00010000  00000001 461 K64      EQU   (64*K)               64 KB
                                  00100000  00000001 462 MB       EQU   (K*K)                 1 MB
                                                    463
                                                    464
                                  AABBCCDD  00000001 465 REG2PATT EQU   X'AABBCCDD'    Polluted Register pattern
                                  000000DD  00000001 466 REG2LOW  EQU         X'DD'    (last byte above)
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    468 *=====================================================================
                                                    469 *
                                                    470 *  NOTE: start data on an address that is easy to display
                                                    471 *        within Hercules
                                                    472 *
                                                    473 *=====================================================================
                                                    474
00000630                      00000630  00001000    475          ORG   ZVE6TST+X'1000'
00001000  00000000                                  476 FAILED   DC    F'0'                      some test failed?
00001004  00000000                                  477 TESTING  DC    F'0'                      current test number


                                                    479 ***********************************************************************
                                                    480 *        TEST failed : result messgae
                                                    481 ***********************************************************************
                                                    482 *
                                                    483 *        failed message and associated editting
                                                    484 *
00001008  40404040 40404040                         485 PRTLINE  DC    C'         Test # '
00001018  A7A7A7                                    486 PRTNUM   DC    C'xxx'
0000101B  40868189 93858440                         487          DC    C' failed for instruction '
00001033  A7A7A7A7 A7A7A7A7                         488 PRTNAME  DC    CL8'xxxxxxxx'
0000103B  40A689A3 884094F3                         489          DC    C' with m3='
00001044  A7A7                                      490 PRTM3    DC    C'xx'
00001046  6B40A689 A3884094                         491          DC    C', with m4='
00001050  A7A7                                      492 PRTM4    DC    C'xx'
00001052  4B                                        493          DC    C'.'
                                0000004B  00000001  494 PRTLNG   EQU   *-PRTLINE


                                                    496 ***********************************************************************
                                                    497 *        TEST failed : CC message
                                                    498 ***********************************************************************
                                                    499 *
                                                    500 *        failed message and associated editting
                                                    501 *
00001053  40404040 40404040                         502 CCPRTLINE DC   C'         Test # '
00001063  A7A7A7                                    503 CCPRTNUM DC    C'xxx'
00001066  40A69996 95874083                         504          DC    c' wrong cc for instruction '
00001080  A7A7A7A7 A7A7A7A7                         505 CCPRTNAME DC    CL8'xxxxxxxx'
00001088  4085A797 8583A385                         506          DC    C' expected: cc='
00001096  A7                                        507 CCPRTEXP DC    C'x'
00001097  6B                                        508          DC    C','
00001098  40998583 8589A585                         509          DC    C' received: cc='
000010A6  A7                                        510 CCPRTGOT DC    C'x'
000010A7  4B                                        511          DC    C'.'
                                00000055  00000001  512 CCPRTLNG   EQU   *-CCPRTLINE
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    514 ***********************************************************************
                                                    515 *        TEST failed : message working storge
                                                    516 ***********************************************************************
000010A8  40212020 20202020                         517 EDIT     DC    XL18'402120202020202020202020202020202020'
                                                    518
000010BA  7E7E7E6E                                  519          DC    C'===>'
000010BE  40404040 40404040                         520 PRT3     DC    CL18' '
000010D0  4C7E7E7E                                  521          DC    C'<===='
000010D4  00000000 00000000                         522 DECNUM   DS    CL16
                                                    523 *
                                                    524 *        CC extrtaction
                                                    525 *
000010E4  00000000 00000000                         526 CCPSW    DS    2F          extract PSW after test (has CC)
000010EC  00                                        527 CCFOUND  DS    X           extracted cc


                                                    529 ***********************************************************************
                                                    530 *        Vector instruction results, pollution and input
                                                    531 ***********************************************************************
000010F0                                            532          DS    0FD
000010F0  AABBCCDD EEFFAABB                         533 R1FUDGE  DC    XL8'AABBCCDDEEFFAABB'                    R1 FUDGE
000010F8  00000000 00000000                         534          DS    XL16                                         gap
00001108  00000000 00000000                         535 V1OUTPUT DS    XL16                                     V1 OUTPUT
00001118  00000000 00000000                         536          DS    XL16                                         gap
00001128  FFFFFFFF FFFFFFFF                         537 V1FUDGE  DC    XL16'FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF'    V1 FUDGE
00001138  BBBBBBBB BBBBBBBB                         538 V1FUDGEB DC    XL16'BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB'    V1 FUDGE b
00001148  F1F2F3F4 F5F6F7F8                         539 V1INPUT  DC    CL16'1234567890123456'                   V1 input
00001158  F7F8F9F0 F1F2F3F4                         540          DC    CL14'78901234567890'
00001166  D9                                        541          DC    X'D9'
00001167  00000000 00000000                         542          DS    XL16                                         gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                    544 ************************************************************************
                                                    545 *        E6TEST DSECT
                                                    546 ************************************************************************


                                                    548 E6TEST   DSECT ,
00000000  00000000                                  549 TSUB     DC    A(0)           pointer  to test
00000004  0000                                      550 TNUM     DC    H'00'          Test Number
00000006  00                                        551          DC    XL1'00'
00000007  00                                        552 M3       DC    HL1'00'        M3
00000008  00                                        553 M4       DC    HL1'00'        M4
00000009  00                                        554 CC       DC    HL1'00'        cc
0000000A  00                                        555 CCMASK   DC    HL1'00'        not expected CC mask
                                                    556
0000000B  40404040 40404040                         557 OPNAME   DC    CL8' '         E6 name
                                                    558
00000014  00000000                                  559 RELEN    DC    A(0)           RESULT LENGTH
00000018  00000000                                  560 READDR   DC    A(0)           expected result address
00000020  00000000 00000000                         561          DS    FD                     gap
00000028  00000000 00000000                         562 R1OUTPUT DS    FD             R1 OUTPUT
00000030  00000000 00000000                         563          DS    FD                     gap
                                                    564
                                                    565 **
                                                    566 *        test routine will be here (from VRR_I macro)
                                                    567 *              followed by
                                                    568 *              r1     - expected result (64 bits) (even for VCVB)
                                                    569 *              v1     - 16 byte packed decimal source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   571 ************************************************************************
                                                   572 *     Macros to help build test tables
                                                   573 *-----------------------------------------------------------------------
                                                   574 *     VRR_I Macro to help build test tables
                                                   575 ************************************************************************
                                                   576          MACRO
                                                   577          VRR_I &INST,&M3,&M4,&CC
                                                   578 .*                                &INST  - VRS-d instruction under test
                                                   579 .*                                &M3    - P2 (bit 0), P1 (bit 2) and
                                                   580 .*                                         CS (bit 3)
                                                   581 .*                                &CC    - expected CC
                                                   582 .*
                                                   583 .*                      note:     M4    - bit 0   IOM (always 0)
                                                   584 .*
                                                   585 .*
                                                   586          LCLA  &XCC(4)  &CC has mask values for FAILED condition codes
                                                   587 &XCC(1)  SETA  7                  CC != 0
                                                   588 &XCC(2)  SETA  11                 CC != 1
                                                   589 &XCC(3)  SETA  13                 CC != 2
                                                   590 &XCC(4)  SETA  14                 CC != 3
                                                   591
                                                   592          GBLA  &TNUM
                                                   593 &TNUM    SETA  &TNUM+1
                                                   594
                                                   595          DS    0FD
                                                   596          USING *,R5              base for test data and test routine
                                                   597
                                                   598 T&TNUM   DC    A(X&TNUM)         address of test routine
                                                   599          DC    H'&TNUM'          test number
                                                   600          DC    XL1'00'
                                                   601          DC    HL1'&M3'          &M3
                                                   602          DC    HL1'&M4'          &M4
                                                   603          DC    HL1'&CC'          cc
                                                   604          DC    HL1'&XCC(&CC+1)'  cc failed mask
                                                   605
                                                   606          DC    CL8'&INST'        instruction name
                                                   607          DC    A(16)             result length
                                                   608 REA&TNUM DC    A(RE&TNUM)        result address
                                                   609          DS    FD                      gap
                                                   610 R1O&TNUM DS    FD                R1 OUTPUT
                                                   611          DS    FD                      gap
                                                   612 .*
                                                   613 *                                INSTRUCTION UNDER TEST ROUTINE
                                                   614 X&TNUM   DS    0F
                                                   615          LG    R1,R1FUDGE        pollute R1
                                                   616          VL    V1,RE&TNUM+8      get V1 source
                                                   617
                                                   618          &INST R1,V1,&M3,&M4     test instruction
                                                   619
                                                   620          STG   R1,R1O&TNUM       save
                                                   621          EPSW  R2,R0             exptract psw
                                                   622          ST    R2,CCPSW              to save CC
                                                   623
                                                   624          BR    R11               return
                                                   625
                                                   626 RE&TNUM  DC    0F
```

```
  LOC         OBJECT CODE       ADDR1     ADDR2     STMT

                                                     627          DROP  R5
                                                     628
                                                     629          MEND
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   ***********************************************************************
                                                   *     PTTABLE Macro to generate table of pointers to individual tests
                                                   ***********************************************************************

                                                            MACRO
                                                            PTTABLE
                                                            GBLA  &TNUM
                                                            LCLA  &CUR
                                                   &CUR     SETA  1
                                                   .*
                                                   TTABLE   DS    0F
                                                   .LOOP    ANOP
                                                   .*
                                                            DC    A(T&CUR)          address of test
                                                   .*
                                                   &CUR     SETA  &CUR+1
                                                            AIF   (&CUR LE &TNUM).LOOP
                                                   *
                                                            DC    A(0)              END OF TABLE
                                                            DC    A(0)
                                                   .*
                                                            MEND
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT
                                                    654 ************************************************************************
                                                    655 *        E6 VRR_I tests
                                                    656 ************************************************************************
                             00000000  00006177    657 ZVE6TST  CSECT ,
00001178                                            658          DS    0F


                                                    660          PRINT DATA
                                                    661 *
                                                    662 *        E650 VCVB    - VECTOR CONVERT TO BINARY  (32)
                                                    663 *        E652 VCVBG   - VECTOR CONVERT TO BINARY  (64)
                                                    664 *
                                                    665 *        VRR_I instr, m3, m4, cc
                                                    666 *              followed by
                                                    667 *              r1     - expected result (64 bits) (even for VCVB)
                                                    668 *              v1     - 16 byte packed decimal source
                                                    669
                                                    670 *-----------------------------------------------------------------
                                                    671 * VCVB    - VECTOR CONVERT TO BINARY  (32)
                                                    672 *-----------------------------------------------------------------
                                                    673 * VCVB   m3=1 (p2=0, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                    674 *        cc=0 (no overflow)
                                                    675          VRR_I VCVB,1,0,0
00001178                                            676+         DS    0FD
00001178                             00001178       677+         USING *,R5              base for test data and test routine
00001178  000011B0                                  678+T1       DC    A(X1)             address of test routine
0000117C  0001                                      679+         DC    H'1'              test number
0000117E  00                                        680+         DC    XL1'00'
0000117F  01                                        681+         DC    HL1'1'            &M3
00001180  00                                        682+         DC    HL1'0'            &M4
00001181  00                                        683+         DC    HL1'0'            cc
00001182  07                                        684+         DC    HL1'7'            cc failed mask
00001183  E5C3E5C2 40404040                         685+         DC    CL8'VCVB'         instruction name
0000118C  00000010                                  686+         DC    A(16)             result length
00001190  000011D4                                  687+REA1     DC    A(RE1)            result address
00001198  00000000 00000000                         688+         DS    FD                      gap
000011A0  00000000 00000000                         689+R1O1     DS    FD                R1 OUTPUT
000011A8  00000000 00000000                         690+         DS    FD                      gap
                                                    691+*                                  INSTRUCTION UNDER TEST ROUTINE
000011B0                                            692+X1       DS    0F
000011B0  E310 8EF0 0004                 000010F0   693+         LG    R1,R1FUDGE        pollute R1
000011B6  E710 5064 0006                 000011DC   694+         VL    V1,RE1+8          get V1 source
000011BC  E611 0010 0050                            695+         VCVB  R1,V1,1,0         test instruction
000011C2  E310 5028 0024                 000011A0   696+         STG   R1,R1O1           save
000011C8  B98D 0020                                 697+         EPSW  R2,R0             exptract psw
000011CC  5020 8EE4                      000010E4   698+         ST    R2,CCPSW              to save CC
000011D0  07FB                                      699+         BR    R11               return
000011D4                                            700+RE1      DC    0F
000011D4                                            701+         DROP  R5
000011D4  AABBCCDD 00000000                         702          DC    XL08'AABBCCDD00000000'                    R1 result
000011DC  00000000 00000000                         703          DC    XL16'00000000000000000000000000000000'    V1 source
000011E4  00000000 0000000C
                                                    704
                                                    705          VRR_I VCVB,1,0,0                                Neg Zero
000011F0                                            706+         DS    0FD
000011F0                             000011F0       707+         USING *,R5              base for test data and test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000011F0  00001228                                 708+T2       DC    A(X2)              address of test routine
000011F4  0002                                     709+         DC    H'2'               test number
000011F6  00                                       710+         DC    XL1'00'
000011F7  01                                       711+         DC    HL1'1'             &M3
000011F8  00                                       712+         DC    HL1'0'             &M4
000011F9  00                                       713+         DC    HL1'0'             cc
000011FA  07                                       714+         DC    HL1'7'             cc failed mask
000011FB  E5C3E5C2 40404040                        715+         DC    CL8'VCVB'          instruction name
00001204  00000010                                 716+         DC    A(16)              result length
00001208  0000124C                                 717+REA2     DC    A(RE2)             result address
00001210  00000000 00000000                        718+         DS    FD                       gap
00001218  00000000 00000000                        719+R1O2     DS    FD                 R1 OUTPUT
00001220  00000000 00000000                        720+         DS    FD                       gap
                                                   721+*                                   INSTRUCTION UNDER TEST ROUTINE
00001228                                           722+X2       DS    0F
00001228  E310 8EF0 0004                 000010F0  723+         LG    R1,R1FUDGE         pollute R1
0000122E  E710 9054 0006                 00001254  724+         VL    V1,RE2+8           get V1 source
00001234  E611 0010 0050                           725+         VCVB  R1,V1,1,0          test instruction
0000123A  E310 9018 0024                 00001218  726+         STG   R1,R1O2            save
00001240  B98D 0020                                727+         EPSW  R2,R0              exptract psw
00001244  5020 8EE4                      000010E4  728+         ST    R2,CCPSW               to save CC
00001248  07FB                                     729+         BR    R11                return
0000124C                                           730+RE2      DC    0F
0000124C                                           731+         DROP  R5
0000124C  AABBCCDD 00000000                        732          DC    XL08'AABBCCDD00000000'                   R1 result
00001254  00000000 00000000                        733          DC    XL16'00000000000000000000000000000000'   V1 source
0000125C  00000000 0000000D
                                                   734
                                                   735          VRR_I VCVB,1,0,0
00001268                                           736+         DS    0FD
00001268                         00001268          737+         USING *,R5               base for test data and test routine
00001268  000012A0                                 738+T3       DC    A(X3)              address of test routine
0000126C  0003                                     739+         DC    H'3'               test number
0000126E  00                                       740+         DC    XL1'00'
0000126F  01                                       741+         DC    HL1'1'             &M3
00001270  00                                       742+         DC    HL1'0'             &M4
00001271  00                                       743+         DC    HL1'0'             cc
00001272  07                                       744+         DC    HL1'7'             cc failed mask
00001273  E5C3E5C2 40404040                        745+         DC    CL8'VCVB'          instruction name
0000127C  00000010                                 746+         DC    A(16)              result length
00001280  000012C4                                 747+REA3     DC    A(RE3)             result address
00001288  00000000 00000000                        748+         DS    FD                       gap
00001290  00000000 00000000                        749+R1O3     DS    FD                 R1 OUTPUT
00001298  00000000 00000000                        750+         DS    FD                       gap
                                                   751+*                                   INSTRUCTION UNDER TEST ROUTINE
000012A0                                           752+X3       DS    0F
000012A0  E310 8EF0 0004                 000010F0  753+         LG    R1,R1FUDGE         pollute R1
000012A6  E710 5064 0006                 000012CC  754+         VL    V1,RE3+8           get V1 source
000012AC  E611 0010 0050                           755+         VCVB  R1,V1,1,0          test instruction
000012B2  E310 5028 0024                 00001290  756+         STG   R1,R1O3            save
000012B8  B98D 0020                                757+         EPSW  R2,R0              exptract psw
000012BC  5020 8EE4                      000010E4  758+         ST    R2,CCPSW               to save CC
000012C0  07FB                                     759+         BR    R11                return
000012C4                                           760+RE3      DC    0F
000012C4                                           761+         DROP  R5
000012C4  AABBCCDD 0000000A                        762          DC    XL08'AABBCCDD0000000A'                   R1 result
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000012CC  00000000 00000000                         763          DC    XL16'000000000000000000000000000010C'   V1 source
000012D4  00000000 0000010C
                                                    764
                                                    765          VRR_I VCVB,1,0,0
000012E0                                            766+         DS    0FD
000012E0                      000012E0              767+         USING *,R5              base for test data and test routine
000012E0  00001318                                  768+T4       DC    A(X4)             address of test routine
000012E4  0004                                      769+         DC    H'4'              test number
000012E6  00                                        770+         DC    XL1'00'
000012E7  01                                        771+         DC    HL1'1'            &M3
000012E8  00                                        772+         DC    HL1'0'            &M4
000012E9  00                                        773+         DC    HL1'0'            cc
000012EA  07                                        774+         DC    HL1'7'            cc failed mask
000012EB  E5C3E5C2 40404040                         775+         DC    CL8'VCVB'         instruction name
000012F4  00000010                                  776+         DC    A(16)             result length
000012F8  0000133C                                  777+REA4     DC    A(RE4)            result address
00001300  00000000 00000000                         778+         DS    FD                      gap
00001308  00000000 00000000                         779+R1O4     DS    FD                R1 OUTPUT
00001310  00000000 00000000                         780+         DS    FD                      gap
                                                    781+*                                  INSTRUCTION UNDER TEST ROUTINE
00001318                                            782+X4       DS    0F
00001318  E310 8EF0 0004                000010F0    783+         LG    R1,R1FUDGE        pollute R1
0000131E  E710 5064 0006                00001344    784+         VL    V1,RE4+8          get V1 source
00001324  E611 0010 0050                            785+         VCVB  R1,V1,1,0         test instruction
0000132A  E310 5028 0024                00001308    786+         STG   R1,R1O4           save
00001330  B98D 0020                                 787+         EPSW  R2,R0             exptract psw
00001334  5020 8EE4                     000010E4    788+         ST    R2,CCPSW                to save CC
00001338  07FB                                      789+         BR    R11               return
0000133C                                            790+RE4      DC    0F
0000133C                                            791+         DROP  R5
0000133C  AABBCCDD FFFFFFF6                         792          DC    XL08'AABBCCDDFFFFFFF6'                  R1 result
00001344  00000000 00000000                         793          DC    XL16'000000000000000000000000000010D'   V1 source
0000134C  00000000 0000010D
                                                    794
                                                    795          VRR_I VCVB,1,0,0                              + SIGN - A
00001358                                            796+         DS    0FD
00001358                      00001358              797+         USING *,R5              base for test data and test routine
00001358  00001390                                  798+T5       DC    A(X5)             address of test routine
0000135C  0005                                      799+         DC    H'5'              test number
0000135E  00                                        800+         DC    XL1'00'
0000135F  01                                        801+         DC    HL1'1'            &M3
00001360  00                                        802+         DC    HL1'0'            &M4
00001361  00                                        803+         DC    HL1'0'            cc
00001362  07                                        804+         DC    HL1'7'            cc failed mask
00001363  E5C3E5C2 40404040                         805+         DC    CL8'VCVB'         instruction name
0000136C  00000010                                  806+         DC    A(16)             result length
00001370  000013B4                                  807+REA5     DC    A(RE5)            result address
00001378  00000000 00000000                         808+         DS    FD                      gap
00001380  00000000 00000000                         809+R1O5     DS    FD                R1 OUTPUT
00001388  00000000 00000000                         810+         DS    FD                      gap
                                                    811+*                                  INSTRUCTION UNDER TEST ROUTINE
00001390                                            812+X5       DS    0F
00001390  E310 8EF0 0004                000010F0    813+         LG    R1,R1FUDGE        pollute R1
00001396  E710 5064 0006                000013BC    814+         VL    V1,RE5+8          get V1 source
0000139C  E611 0010 0050                            815+         VCVB  R1,V1,1,0         test instruction
000013A2  E310 5028 0024                00001380    816+         STG   R1,R1O5           save
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000013A8  B98D 0020                                 817+         EPSW  R2,R0              exptract psw
000013AC  5020 8EE4                       000010E4  818+         ST    R2,CCPSW               to save CC
000013B0  07FB                                      819+         BR    R11                return
000013B4                                            820+RE5      DC    0F
000013B4                                            821+         DROP  R5
000013B4  AABBCCDD 000000FF                         822          DC    XL08'AABBCCDD000000FF'                    R1 result
000013BC  00000000 00000000                         823          DC    XL16'00000000000000000000000000000255A'   V1 source
000013C4  00000000 0000255A
                                                    824
                                                    825          VRR_I VCVB,1,0,0                                - SIGN - B
000013D0                                            826+         DS    0FD
000013D0                          000013D0          827+         USING *,R5               base for test data and test routine
000013D0  00001408                                  828+T6       DC    A(X6)              address of test routine
000013D4  0006                                      829+         DC    H'6'               test number
000013D6  00                                        830+         DC    XL1'00'
000013D7  01                                        831+         DC    HL1'1'             &M3
000013D8  00                                        832+         DC    HL1'0'             &M4
000013D9  00                                        833+         DC    HL1'0'             cc
000013DA  07                                        834+         DC    HL1'7'             cc failed mask
000013DB  E5C3E5C2 40404040                         835+         DC    CL8'VCVB'          instruction name
000013E4  00000010                                  836+         DC    A(16)              result length
000013E8  0000142C                                  837+REA6     DC    A(RE6)             result address
000013F0  00000000 00000000                         838+         DS    FD                       gap
000013F8  00000000 00000000                         839+R1O6     DS    FD                 R1 OUTPUT
00001400  00000000 00000000                         840+         DS    FD                       gap
                                                    841+*                                  INSTRUCTION UNDER TEST ROUTINE
00001408                                            842+X6       DS    0F
00001408  E310 8EF0 0004                  000010F0  843+         LG    R1,R1FUDGE         pollute R1
0000140E  E710 5064 0006                  00001434  844+         VL    V1,RE6+8           get V1 source
00001414  E611 0010 0050                            845+         VCVB  R1,V1,1,0          test instruction
0000141A  E310 5028 0024                  000013F8  846+         STG   R1,R1O6            save
00001420  B98D 0020                                 847+         EPSW  R2,R0              exptract psw
00001424  5020 8EE4                       000010E4  848+         ST    R2,CCPSW               to save CC
00001428  07FB                                      849+         BR    R11                return
0000142C                                            850+RE6      DC    0F
0000142C                                            851+         DROP  R5
0000142C  AABBCCDD FFFFFF01                         852          DC    XL08'AABBCCDDFFFFFF01'                    R1 result
00001434  00000000 00000000                         853          DC    XL16'00000000000000000000000000000255B'   V1 source
0000143C  00000000 0000255B
                                                    854
                                                    855          VRR_I VCVB,1,0,0                                + SIGN - E
00001448                                            856+         DS    0FD
00001448                          00001448          857+         USING *,R5               base for test data and test routine
00001448  00001480                                  858+T7       DC    A(X7)              address of test routine
0000144C  0007                                      859+         DC    H'7'               test number
0000144E  00                                        860+         DC    XL1'00'
0000144F  01                                        861+         DC    HL1'1'             &M3
00001450  00                                        862+         DC    HL1'0'             &M4
00001451  00                                        863+         DC    HL1'0'             cc
00001452  07                                        864+         DC    HL1'7'             cc failed mask
00001453  E5C3E5C2 40404040                         865+         DC    CL8'VCVB'          instruction name
0000145C  00000010                                  866+         DC    A(16)              result length
00001460  000014A4                                  867+REA7     DC    A(RE7)             result address
00001468  00000000 00000000                         868+         DS    FD                       gap
00001470  00000000 00000000                         869+R1O7     DS    FD                 R1 OUTPUT
00001478  00000000 00000000                         870+         DS    FD                       gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   871+*                                INSTRUCTION UNDER TEST ROUTINE
00001480                                           872+X7       DS    0F
00001480  E310 8EF0 0004                 000010F0  873+         LG    R1,R1FUDGE        pollute R1
00001486  E710 5064 0006                 000014AC  874+         VL    V1,RE7+8          get V1 source
0000148C  E611 0010 0050                           875+         VCVB  R1,V1,1,0         test instruction
00001492  E310 5028 0024                 00001470  876+         STG   R1,R1O7           save
00001498  B98D 0020                                877+         EPSW  R2,R0             exptract psw
0000149C  5020 8EE4                      000010E4  878+         ST    R2,CCPSW              to save CC
000014A0  07FB                                     879+         BR    R11               return
000014A4                                           880+RE7      DC    0F
000014A4                                           881+         DROP  R5
000014A4  AABBCCDD 000000FF                        882          DC    XL08'AABBCCDD000000FF'                    R1 result
000014AC  00000000 00000000                        883          DC    XL16'00000000000000000000000000000255E'   V1 source
000014B4  00000000 0000255E
                                                   884
                                                   885          VRR_I VCVB,1,0,0                                + SIGN - F
000014C0                                           886+         DS    0FD
000014C0                         000014C0          887+         USING *,R5              base for test data and test routine
000014C0  000014F8                                 888+T8       DC    A(X8)             address of test routine
000014C4  0008                                     889+         DC    H'8'              test number
000014C6  00                                       890+         DC    XL1'00'
000014C7  01                                       891+         DC    HL1'1'            &M3
000014C8  00                                       892+         DC    HL1'0'            &M4
000014C9  00                                       893+         DC    HL1'0'            cc
000014CA  07                                       894+         DC    HL1'7'            cc failed mask
000014CB  E5C3E5C2 40404040                        895+         DC    CL8'VCVB'         instruction name
000014D4  00000010                                 896+         DC    A(16)             result length
000014D8  0000151C                                 897+REA8     DC    A(RE8)            result address
000014E0  00000000 00000000                        898+         DS    FD                      gap
000014E8  00000000 00000000                        899+R1O8     DS    FD                R1 OUTPUT
000014F0  00000000 00000000                        900+         DS    FD                      gap
                                                   901+*                                INSTRUCTION UNDER TEST ROUTINE
000014F8                                           902+X8       DS    0F
000014F8  E310 8EF0 0004                 000010F0  903+         LG    R1,R1FUDGE        pollute R1
000014FE  E710 5064 0006                 00001524  904+         VL    V1,RE8+8          get V1 source
00001504  E611 0010 0050                           905+         VCVB  R1,V1,1,0         test instruction
0000150A  E310 5028 0024                 000014E8  906+         STG   R1,R1O8           save
00001510  B98D 0020                                907+         EPSW  R2,R0             exptract psw
00001514  5020 8EE4                      000010E4  908+         ST    R2,CCPSW              to save CC
00001518  07FB                                     909+         BR    R11               return
0000151C                                           910+RE8      DC    0F
0000151C                                           911+         DROP  R5
0000151C  AABBCCDD 000000FF                        912          DC    XL08'AABBCCDD000000FF'                    R1 result
00001524  00000000 00000000                        913          DC    XL16'00000000000000000000000000000255F'   V1 source
0000152C  00000000 0000255F
                                                   914
                                                   915          VRR_I VCVB,1,0,0
00001538                                           916+         DS    0FD
00001538                         00001538          917+         USING *,R5              base for test data and test routine
00001538  00001570                                 918+T9       DC    A(X9)             address of test routine
0000153C  0009                                     919+         DC    H'9'              test number
0000153E  00                                       920+         DC    XL1'00'
0000153F  01                                       921+         DC    HL1'1'            &M3
00001540  00                                       922+         DC    HL1'0'            &M4
00001541  00                                       923+         DC    HL1'0'            cc
00001542  07                                       924+         DC    HL1'7'            cc failed mask
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001543  E5C3E5C2 40404040                         925+         DC    CL8'VCVB'          instruction name
0000154C  00000010                                  926+         DC    A(16)              result length
00001550  00001594                                  927+REA9     DC    A(RE9)             result address
00001558  00000000 00000000                         928+         DS    FD                       gap
00001560  00000000 00000000                         929+R1O9     DS    FD                 R1 OUTPUT
00001568  00000000 00000000                         930+         DS    FD                       gap
                                                    931+*                                   INSTRUCTION UNDER TEST ROUTINE
00001570                                            932+X9       DS    0F
00001570  E310 8EF0 0004                 000010F0   933+         LG    R1,R1FUDGE         pollute R1
00001576  E710 5064 0006                 0000159C   934+         VL    V1,RE9+8           get V1 source
0000157C  E611 0010 0050                            935+         VCVB  R1,V1,1,0          test instruction
00001582  E310 5028 0024                 00001560   936+         STG   R1,R1O9            save
00001588  B98D 0020                                 937+         EPSW  R2,R0              exptract psw
0000158C  5020 8EE4                      000010E4   938+         ST    R2,CCPSW                 to save CC
00001590  07FB                                      939+         BR    R11                return
00001594                                            940+RE9      DC    0F
00001594                                            941+         DROP  R5
00001594  AABBCCDD 0008A160                         942          DC    XL08'AABBCCDD0008A160'                    R1 result
0000159C  00000000 00000000                         943          DC    XL16'0000000000000000000000000565600C'    V1 source
000015A4  00000000 0565600C
                                                    944
                                                    945          VRR_I VCVB,1,0,0
000015B0                                            946+         DS    0FD
000015B0                         000015B0           947+         USING *,R5               base for test data and test routine
000015B0  000015E8                                  948+T10      DC    A(X10)             address of test routine
000015B4  000A                                      949+         DC    H'10'              test number
000015B6  00                                        950+         DC    XL1'00'
000015B7  01                                        951+         DC    HL1'1'             &M3
000015B8  00                                        952+         DC    HL1'0'             &M4
000015B9  00                                        953+         DC    HL1'0'             cc
000015BA  07                                        954+         DC    HL1'7'             cc failed mask
000015BB  E5C3E5C2 40404040                         955+         DC    CL8'VCVB'          instruction name
000015C4  00000010                                  956+         DC    A(16)              result length
000015C8  0000160C                                  957+REA10    DC    A(RE10)            result address
000015D0  00000000 00000000                         958+         DS    FD                       gap
000015D8  00000000 00000000                         959+R1O10    DS    FD                 R1 OUTPUT
000015E0  00000000 00000000                         960+         DS    FD                       gap
                                                    961+*                                   INSTRUCTION UNDER TEST ROUTINE
000015E8                                            962+X10      DS    0F
000015E8  E310 8EF0 0004                 000010F0   963+         LG    R1,R1FUDGE         pollute R1
000015EE  E710 5064 0006                 00001614   964+         VL    V1,RE10+8          get V1 source
000015F4  E611 0010 0050                            965+         VCVB  R1,V1,1,0          test instruction
000015FA  E310 5028 0024                 000015D8   966+         STG   R1,R1O10           save
00001600  B98D 0020                                 967+         EPSW  R2,R0              exptract psw
00001604  5020 8EE4                      000010E4   968+         ST    R2,CCPSW                 to save CC
00001608  07FB                                      969+         BR    R11                return
0000160C                                            970+RE10     DC    0F
0000160C                                            971+         DROP  R5
0000160C  AABBCCDD FFF75EA0                         972          DC    XL08'AABBCCDDFFF75EA0'                    R1 result
00001614  00000000 00000000                         973          DC    XL16'0000000000000000000000000565600D'    V1 source
0000161C  00000000 0565600D
                                                    974
                                                    975          VRR_I VCVB,1,0,0                                INT_MAX
00001628                                            976+         DS    0FD
00001628                         00001628           977+         USING *,R5               base for test data and test routine
00001628  00001660                                  978+T11      DC    A(X11)             address of test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000162C  000B                                     979+         DC    H'11'              test number
0000162E  00                                       980+         DC    XL1'00'
0000162F  01                                       981+         DC    HL1'1'             &M3
00001630  00                                       982+         DC    HL1'0'             &M4
00001631  00                                       983+         DC    HL1'0'             cc
00001632  07                                       984+         DC    HL1'7'             cc failed mask
00001633  E5C3E5C2 40404040                        985+         DC    CL8'VCVB'          instruction name
0000163C  00000010                                 986+         DC    A(16)              result length
00001640  00001684                                 987+REA11    DC    A(RE11)            result address
00001648  00000000 00000000                        988+         DS    FD                       gap
00001650  00000000 00000000                        989+R1O11    DS    FD                 R1 OUTPUT
00001658  00000000 00000000                        990+         DS    FD                       gap
                                                   991+*                                   INSTRUCTION UNDER TEST ROUTINE
00001660                                           992+X11      DS    0F
00001660  E310 8EF0 0004                000010F0   993+         LG    R1,R1FUDGE         pollute R1
00001666  E710 5064 0006                0000168C   994+         VL    V1,RE11+8          get V1 source
0000166C  E611 0010 0050                           995+         VCVB  R1,V1,1,0          test instruction
00001672  E310 5028 0024                00001650   996+         STG   R1,R1O11           save
00001678  B98D 0020                                997+         EPSW  R2,R0              exptract psw
0000167C  5020 8EE4                     000010E4   998+         ST    R2,CCPSW               to save CC
00001680  07FB                                     999+         BR    R11                return
00001684                                          1000+RE11     DC    0F
00001684                                          1001+         DROP  R5
00001684  AABBCCDD 7FFFFFFF                       1002          DC    XL08'AABBCCDD7FFFFFFF'                    R1 result
0000168C  00000000 00000000                       1003          DC    XL16'00000000000000000000002147483647C'   V1 source
00001694  00000214 7483647C
                                                  1004
                                                  1005          VRR_I VCVB,1,0,0                                INT_MIN
000016A0                                          1006+         DS    0FD
000016A0                        000016A0          1007+         USING *,R5               base for test data and test routine
000016A0  000016D8                                1008+T12      DC    A(X12)             address of test routine
000016A4  000C                                    1009+         DC    H'12'              test number
000016A6  00                                      1010+         DC    XL1'00'
000016A7  01                                      1011+         DC    HL1'1'             &M3
000016A8  00                                      1012+         DC    HL1'0'             &M4
000016A9  00                                      1013+         DC    HL1'0'             cc
000016AA  07                                      1014+         DC    HL1'7'             cc failed mask
000016AB  E5C3E5C2 40404040                       1015+         DC    CL8'VCVB'          instruction name
000016B4  00000010                                1016+         DC    A(16)              result length
000016B8  000016FC                                1017+REA12    DC    A(RE12)            result address
000016C0  00000000 00000000                       1018+         DS    FD                       gap
000016C8  00000000 00000000                       1019+R1O12    DS    FD                 R1 OUTPUT
000016D0  00000000 00000000                       1020+         DS    FD                       gap
                                                  1021+*                                  INSTRUCTION UNDER TEST ROUTINE
000016D8                                          1022+X12      DS    0F
000016D8  E310 8EF0 0004                000010F0  1023+         LG    R1,R1FUDGE         pollute R1
000016DE  E710 5064 0006                00001704  1024+         VL    V1,RE12+8          get V1 source
000016E4  E611 0010 0050                          1025+         VCVB  R1,V1,1,0          test instruction
000016EA  E310 5028 0024                000016C8  1026+         STG   R1,R1O12           save
000016F0  B98D 0020                               1027+         EPSW  R2,R0              exptract psw
000016F4  5020 8EE4                     000010E4  1028+         ST    R2,CCPSW               to save CC
000016F8  07FB                                    1029+         BR    R11                return
000016FC                                          1030+RE12     DC    0F
000016FC                                          1031+         DROP  R5
000016FC  AABBCCDD 80000000                       1032          DC    XL08'AABBCCDD80000000'                    R1 result
00001704  00000000 00000000                       1033          DC    XL16'00000000000000000000002147483648D'   V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000170C  00000214 7483648D
                                                   1034
                                                   1035 * VCVB   m3=1 (p2=0, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                   1036 *        cc=3 (overflow)
                                                   1037          VRR_I VCVB,1,0,3                              UINT_MAX
00001718                                           1038+         DS    0FD
00001718                      00001718             1039+         USING *,R5              base for test data and test routine
00001718  00001750                                 1040+T13      DC    A(X13)            address of test routine
0000171C  000D                                     1041+         DC    H'13'             test number
0000171E  00                                       1042+         DC    XL1'00'
0000171F  01                                       1043+         DC    HL1'1'            &M3
00001720  00                                       1044+         DC    HL1'0'            &M4
00001721  03                                       1045+         DC    HL1'3'            cc
00001722  0E                                       1046+         DC    HL1'14'           cc failed mask
00001723  E5C3E5C2 40404040                        1047+         DC    CL8'VCVB'         instruction name
0000172C  00000010                                 1048+         DC    A(16)             result length
00001730  00001774                                 1049+REA13    DC    A(RE13)           result address
00001738  00000000 00000000                        1050+         DS    FD                      gap
00001740  00000000 00000000                        1051+R1O13    DS    FD                R1 OUTPUT
00001748  00000000 00000000                        1052+         DS    FD                      gap
                                                   1053+*                                  INSTRUCTION UNDER TEST ROUTINE
00001750                                           1054+X13      DS    0F
00001750  E310 8EF0 0004                000010F0   1055+         LG    R1,R1FUDGE        pollute R1
00001756  E710 5064 0006                0000177C   1056+         VL    V1,RE13+8         get V1 source
0000175C  E611 0010 0050                           1057+         VCVB  R1,V1,1,0         test instruction
00001762  E310 5028 0024                00001740   1058+         STG   R1,R1O13          save
00001768  B98D 0020                                1059+         EPSW  R2,R0             exptract psw
0000176C  5020 8EE4                     000010E4   1060+         ST    R2,CCPSW                to save CC
00001770  07FB                                     1061+         BR    R11               return
00001774                                           1062+RE13     DC    0F
00001774                                           1063+         DROP  R5
00001774  AABBCCDD FFFFFFFF                        1064          DC    XL08'AABBCCDDFFFFFFFF'                  R1 result
0000177C  00000000 00000000                        1065          DC    XL16'00000000000000000000004294967295C'  V1 source
00001784  00000429 4967295C
                                                   1066
                                                   1067          VRR_I VCVB,1,0,3                              UINT_MAX +1
00001790                                           1068+         DS    0FD
00001790                      00001790             1069+         USING *,R5              base for test data and test routine
00001790  000017C8                                 1070+T14      DC    A(X14)            address of test routine
00001794  000E                                     1071+         DC    H'14'             test number
00001796  00                                       1072+         DC    XL1'00'
00001797  01                                       1073+         DC    HL1'1'            &M3
00001798  00                                       1074+         DC    HL1'0'            &M4
00001799  03                                       1075+         DC    HL1'3'            cc
0000179A  0E                                       1076+         DC    HL1'14'           cc failed mask
0000179B  E5C3E5C2 40404040                        1077+         DC    CL8'VCVB'         instruction name
000017A4  00000010                                 1078+         DC    A(16)             result length
000017A8  000017EC                                 1079+REA14    DC    A(RE14)           result address
000017B0  00000000 00000000                        1080+         DS    FD                      gap
000017B8  00000000 00000000                        1081+R1O14    DS    FD                R1 OUTPUT
000017C0  00000000 00000000                        1082+         DS    FD                      gap
                                                   1083+*                                  INSTRUCTION UNDER TEST ROUTINE
000017C8                                           1084+X14      DS    0F
000017C8  E310 8EF0 0004                000010F0   1085+         LG    R1,R1FUDGE        pollute R1
000017CE  E710 5064 0006                000017F4   1086+         VL    V1,RE14+8         get V1 source
000017D4  E611 0010 0050                           1087+         VCVB  R1,V1,1,0         test instruction
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000017DA  E310 5028 0024                 000017B8  1088+         STG   R1,R1O14          save
000017E0  B98D 0020                                1089+         EPSW  R2,R0             exptract psw
000017E4  5020 8EE4                      000010E4  1090+         ST    R2,CCPSW              to save CC
000017E8  07FB                                     1091+         BR    R11               return
000017EC                                           1092+RE14     DC    0F
000017EC                                           1093+         DROP  R5
000017EC  AABBCCDD 00000000                        1094          DC    XL08'AABBCCDD00000000'                    R1 result
000017F4  00000000 00000000                        1095          DC    XL16'00000000000000000000004294967296C'   V1 source
000017FC  00000429 4967296C
                                                   1096
                                                   1097          VRR_I VCVB,1,0,3
00001808                                           1098+         DS    0FD
00001808                         00001808          1099+         USING *,R5              base for test data and test routine
00001808  00001840                                 1100+T15      DC    A(X15)            address of test routine
0000180C  000F                                     1101+         DC    H'15'             test number
0000180E  00                                       1102+         DC    XL1'00'
0000180F  01                                       1103+         DC    HL1'1'            &M3
00001810  00                                       1104+         DC    HL1'0'            &M4
00001811  03                                       1105+         DC    HL1'3'            cc
00001812  0E                                       1106+         DC    HL1'14'           cc failed mask
00001813  E5C3E5C2 40404040                        1107+         DC    CL8'VCVB'         instruction name
0000181C  00000010                                 1108+         DC    A(16)             result length
00001820  00001864                                 1109+REA15    DC    A(RE15)           result address
00001828  00000000 00000000                        1110+         DS    FD                      gap
00001830  00000000 00000000                        1111+R1O15    DS    FD                R1 OUTPUT
00001838  00000000 00000000                        1112+         DS    FD                      gap
                                                   1113+*                                  INSTRUCTION UNDER TEST ROUTINE
00001840                                           1114+X15      DS    0F
00001840  E310 8EF0 0004                 000010F0  1115+         LG    R1,R1FUDGE        pollute R1
00001846  E710 5064 0006                 0000186C  1116+         VL    V1,RE15+8         get V1 source
0000184C  E611 0010 0050                           1117+         VCVB  R1,V1,1,0         test instruction
00001852  E310 5028 0024                 00001830  1118+         STG   R1,R1O15          save
00001858  B98D 0020                                1119+         EPSW  R2,R0             exptract psw
0000185C  5020 8EE4                      000010E4  1120+         ST    R2,CCPSW              to save CC
00001860  07FB                                     1121+         BR    R11               return
00001864                                           1122+RE15     DC    0F
00001864                                           1123+         DROP  R5
00001864  AABBCCDD DF8E1660                        1124          DC    XL08'AABBCCDDDF8E1660'                    R1 result
0000186C  00000000 00000000                        1125          DC    XL16'00000000000000000000012340565600C'   V1 source
00001874  00001234 0565600C
                                                   1126
                                                   1127 * VCVB   m3=1 (p2=0, lb=0, cs=1)       m4=4 (iom=0, orc=1)
                                                   1128 *        cc=3 (overflow)
                                                   1129          VRR_I VCVB,1,4,3                                UINT_MAX
00001880                                           1130+         DS    0FD
00001880                         00001880          1131+         USING *,R5              base for test data and test routine
00001880  000018B8                                 1132+T16      DC    A(X16)            address of test routine
00001884  0010                                     1133+         DC    H'16'             test number
00001886  00                                       1134+         DC    XL1'00'
00001887  01                                       1135+         DC    HL1'1'            &M3
00001888  04                                       1136+         DC    HL1'4'            &M4
00001889  03                                       1137+         DC    HL1'3'            cc
0000188A  0E                                       1138+         DC    HL1'14'           cc failed mask
0000188B  E5C3E5C2 40404040                        1139+         DC    CL8'VCVB'         instruction name
00001894  00000010                                 1140+         DC    A(16)             result length
00001898  000018DC                                 1141+REA16    DC    A(RE16)           result address
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000018A0  00000000 00000000                        1142+          DS    FD                      gap
000018A8  00000000 00000000                        1143+R1O16     DS    FD                 R1 OUTPUT
000018B0  00000000 00000000                        1144+          DS    FD                      gap
                                                   1145+*                                  INSTRUCTION UNDER TEST ROUTINE
000018B8                                           1146+X16       DS    0F
000018B8  E310 8EF0 0004                 000010F0  1147+          LG    R1,R1FUDGE         pollute R1
000018BE  E710 5064 0006                 000018E4  1148+          VL    V1,RE16+8          get V1 source
000018C4  E611 0014 0050                           1149+          VCVB  R1,V1,1,4          test instruction
000018CA  E310 5028 0024                 000018A8  1150+          STG   R1,R1O16           save
000018D0  B98D 0020                                1151+          EPSW  R2,R0              exptract psw
000018D4  5020 8EE4                      000010E4  1152+          ST    R2,CCPSW               to save CC
000018D8  07FB                                     1153+          BR    R11                return
000018DC                                           1154+RE16      DC    0F
000018DC                                           1155+          DROP  R5
000018DC  AABBCCDD 00000000                        1156           DC    XL08'AABBCCDD00000000'                    R1 result
000018E4  00000000 00000000                        1157           DC    XL16'00000000000000000000004294967295C'   V1 source
000018EC  00000429 4967295C
                                                   1158
                                                   1159           VRR_I VCVB,1,4,3                                UINT_MAX +1
000018F8                                           1160+          DS    0FD
000018F8                         000018F8          1161+          USING *,R5               base for test data and test routine
000018F8  00001930                                 1162+T17       DC    A(X17)             address of test routine
000018FC  0011                                     1163+          DC    H'17'              test number
000018FE  00                                       1164+          DC    XL1'00'
000018FF  01                                       1165+          DC    HL1'1'             &M3
00001900  04                                       1166+          DC    HL1'4'             &M4
00001901  03                                       1167+          DC    HL1'3'             cc
00001902  0E                                       1168+          DC    HL1'14'            cc failed mask
00001903  E5C3E5C2 40404040                        1169+          DC    CL8'VCVB'          instruction name
0000190C  00000010                                 1170+          DC    A(16)              result length
00001910  00001954                                 1171+REA17     DC    A(RE17)            result address
00001918  00000000 00000000                        1172+          DS    FD                      gap
00001920  00000000 00000000                        1173+R1O17     DS    FD                 R1 OUTPUT
00001928  00000000 00000000                        1174+          DS    FD                      gap
                                                   1175+*                                  INSTRUCTION UNDER TEST ROUTINE
00001930                                           1176+X17       DS    0F
00001930  E310 8EF0 0004                 000010F0  1177+          LG    R1,R1FUDGE         pollute R1
00001936  E710 5064 0006                 0000195C  1178+          VL    V1,RE17+8          get V1 source
0000193C  E611 0014 0050                           1179+          VCVB  R1,V1,1,4          test instruction
00001942  E310 5028 0024                 00001920  1180+          STG   R1,R1O17           save
00001948  B98D 0020                                1181+          EPSW  R2,R0              exptract psw
0000194C  5020 8EE4                      000010E4  1182+          ST    R2,CCPSW               to save CC
00001950  07FB                                     1183+          BR    R11                return
00001954                                           1184+RE17      DC    0F
00001954                                           1185+          DROP  R5
00001954  AABBCCDD 00000000                        1186           DC    XL08'AABBCCDD00000000'                    R1 result
0000195C  00000000 00000000                        1187           DC    XL16'00000000000000000000004294967296C'   V1 source
00001964  00000429 4967296C
                                                   1188
                                                   1189           VRR_I VCVB,1,4,3
00001970                                           1190+          DS    0FD
00001970                         00001970          1191+          USING *,R5               base for test data and test routine
00001970  000019A8                                 1192+T18       DC    A(X18)             address of test routine
00001974  0012                                     1193+          DC    H'18'              test number
00001976  00                                       1194+          DC    XL1'00'
00001977  01                                       1195+          DC    HL1'1'             &M3
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001978  04                                       1196+         DC    HL1'4'            &M4
00001979  03                                       1197+         DC    HL1'3'            cc
0000197A  0E                                       1198+         DC    HL1'14'           cc failed mask
0000197B  E5C3E5C2 40404040                        1199+         DC    CL8'VCVB'         instruction name
00001984  00000010                                 1200+         DC    A(16)             result length
00001988  000019CC                                 1201+REA18    DC    A(RE18)           result address
00001990  00000000 00000000                        1202+         DS    FD                      gap
00001998  00000000 00000000                        1203+R1O18    DS    FD                R1 OUTPUT
000019A0  00000000 00000000                        1204+         DS    FD                      gap
                                                   1205+*                                  INSTRUCTION UNDER TEST ROUTINE
000019A8                                           1206+X18      DS    0F
000019A8  E310 8EF0 0004                000010F0   1207+         LG    R1,R1FUDGE        pollute R1
000019AE  E710 5064 0006                000019D4   1208+         VL    V1,RE18+8         get V1 source
000019B4  E611 0014 0050                           1209+         VCVB  R1,V1,1,4         test instruction
000019BA  E310 5028 0024                00001998   1210+         STG   R1,R1O18          save
000019C0  B98D 0020                                1211+         EPSW  R2,R0             exptract psw
000019C4  5020 8EE4                     000010E4   1212+         ST    R2,CCPSW              to save CC
000019C8  07FB                                     1213+         BR    R11               return
000019CC                                           1214+RE18     DC    0F
000019CC                                           1215+         DROP  R5
000019CC  AABBCCDD 00000000                        1216          DC    XL08'AABBCCDD00000000'                    R1 result
000019D4  00000000 00000000                        1217          DC    XL16'000000000000000000000012340565600C'  V1 source
000019DC  00001234 0565600C
                                                   1218
                                                   1219 * VCVB   m3=3 (p2=0, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                   1220 *        cc=0 (no overflow)
                                                   1221          VRR_I VCVB,3,0,0
000019E8                                           1222+         DS    0FD
000019E8                        000019E8           1223+         USING *,R5              base for test data and test routine
000019E8  00001A20                                 1224+T19      DC    A(X19)            address of test routine
000019EC  0013                                     1225+         DC    H'19'             test number
000019EE  00                                       1226+         DC    XL1'00'
000019EF  03                                       1227+         DC    HL1'3'            &M3
000019F0  00                                       1228+         DC    HL1'0'            &M4
000019F1  00                                       1229+         DC    HL1'0'            cc
000019F2  07                                       1230+         DC    HL1'7'            cc failed mask
000019F3  E5C3E5C2 40404040                        1231+         DC    CL8'VCVB'         instruction name
000019FC  00000010                                 1232+         DC    A(16)             result length
00001A00  00001A44                                 1233+REA19    DC    A(RE19)           result address
00001A08  00000000 00000000                        1234+         DS    FD                      gap
00001A10  00000000 00000000                        1235+R1O19    DS    FD                R1 OUTPUT
00001A18  00000000 00000000                        1236+         DS    FD                      gap
                                                   1237+*                                  INSTRUCTION UNDER TEST ROUTINE
00001A20                                           1238+X19      DS    0F
00001A20  E310 8EF0 0004                000010F0   1239+         LG    R1,R1FUDGE        pollute R1
00001A26  E710 5064 0006                00001A4C   1240+         VL    V1,RE19+8         get V1 source
00001A2C  E611 0030 0050                           1241+         VCVB  R1,V1,3,0         test instruction
00001A32  E310 5028 0024                00001A10   1242+         STG   R1,R1O19          save
00001A38  B98D 0020                                1243+         EPSW  R2,R0             exptract psw
00001A3C  5020 8EE4                     000010E4   1244+         ST    R2,CCPSW              to save CC
00001A40  07FB                                     1245+         BR    R11               return
00001A44                                           1246+RE19     DC    0F
00001A44                                           1247+         DROP  R5
00001A44  AABBCCDD 00000000                        1248          DC    XL08'AABBCCDD00000000'                    R1 result
00001A4C  00000000 00000000                        1249          DC    XL16'00000000000000000000000000000000'    V1 source
00001A54  00000000 0000000C
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   1250
                                                   1251          VRR_I VCVB,3,0,0                                Neg Zero
00001A60                                           1252+         DS    0FD
00001A60                     00001A60              1253+         USING *,R5              base for test data and test routine
00001A60  00001A98                                 1254+T20      DC    A(X20)            address of test routine
00001A64  0014                                     1255+         DC    H'20'             test number
00001A66  00                                       1256+         DC    XL1'00'
00001A67  03                                       1257+         DC    HL1'3'            &M3
00001A68  00                                       1258+         DC    HL1'0'            &M4
00001A69  00                                       1259+         DC    HL1'0'            cc
00001A6A  07                                       1260+         DC    HL1'7'            cc failed mask
00001A6B  E5C3E5C2 40404040                        1261+         DC    CL8'VCVB'         instruction name
00001A74  00000010                                 1262+         DC    A(16)             result length
00001A78  00001ABC                                 1263+REA20    DC    A(RE20)           result address
00001A80  00000000 00000000                        1264+         DS    FD                      gap
00001A88  00000000 00000000                        1265+R1O20    DS    FD                R1 OUTPUT
00001A90  00000000 00000000                        1266+         DS    FD                      gap
                                                   1267+*                                  INSTRUCTION UNDER TEST ROUTINE
00001A98                                           1268+X20      DS    0F
00001A98  E310 8EF0 0004                000010F0   1269+         LG    R1,R1FUDGE        pollute R1
00001A9E  E710 5064 0006                00001AC4   1270+         VL    V1,RE20+8         get V1 source
00001AA4  E611 0030 0050                           1271+         VCVB  R1,V1,3,0         test instruction
00001AAA  E310 5028 0024                00001A88   1272+         STG   R1,R1O20          save
00001AB0  B98D 0020                                1273+         EPSW  R2,R0             exptract psw
00001AB4  5020 8EE4                     000010E4   1274+         ST    R2,CCPSW              to save CC
00001AB8  07FB                                     1275+         BR    R11               return
00001ABC                                           1276+RE20     DC    0F
00001ABC                                           1277+         DROP  R5
00001ABC  AABBCCDD 00000000                        1278          DC    XL08'AABBCCDD00000000'                    R1 result
00001AC4  00000000 00000000                        1279          DC    XL16'000000000000000000000000000000D'     V1 source
00001ACC  00000000 0000000D
                                                   1280
                                                   1281          VRR_I VCVB,3,0,0
00001AD8                                           1282+         DS    0FD
00001AD8                     00001AD8              1283+         USING *,R5              base for test data and test routine
00001AD8  00001B10                                 1284+T21      DC    A(X21)            address of test routine
00001ADC  0015                                     1285+         DC    H'21'             test number
00001ADE  00                                       1286+         DC    XL1'00'
00001ADF  03                                       1287+         DC    HL1'3'            &M3
00001AE0  00                                       1288+         DC    HL1'0'            &M4
00001AE1  00                                       1289+         DC    HL1'0'            cc
00001AE2  07                                       1290+         DC    HL1'7'            cc failed mask
00001AE3  E5C3E5C2 40404040                        1291+         DC    CL8'VCVB'         instruction name
00001AEC  00000010                                 1292+         DC    A(16)             result length
00001AF0  00001B34                                 1293+REA21    DC    A(RE21)           result address
00001AF8  00000000 00000000                        1294+         DS    FD                      gap
00001B00  00000000 00000000                        1295+R1O21    DS    FD                R1 OUTPUT
00001B08  00000000 00000000                        1296+         DS    FD                      gap
                                                   1297+*                                  INSTRUCTION UNDER TEST ROUTINE
00001B10                                           1298+X21      DS    0F
00001B10  E310 8EF0 0004                000010F0   1299+         LG    R1,R1FUDGE        pollute R1
00001B16  E710 5064 0006                00001B3C   1300+         VL    V1,RE21+8         get V1 source
00001B1C  E611 0030 0050                           1301+         VCVB  R1,V1,3,0         test instruction
00001B22  E310 5028 0024                00001B00   1302+         STG   R1,R1O21          save
00001B28  B98D 0020                                1303+         EPSW  R2,R0             exptract psw
00001B2C  5020 8EE4                     000010E4   1304+         ST    R2,CCPSW              to save CC
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001B30  07FB                                     1305+         BR    R11                 return
00001B34                                           1306+RE21     DC    0F
00001B34                                           1307+         DROP  R5
00001B34  AABBCCDD 0000000A                        1308          DC    XL08'AABBCCDD0000000A'                    R1 result
00001B3C  00000000 00000000                        1309          DC    XL16'00000000000000000000000000000010C'   V1 source
00001B44  00000000 0000010C
                                                   1310
                                                   1311          VRR_I VCVB,3,0,0
00001B50                                           1312+         DS    0FD
00001B50                      00001B50             1313+         USING *,R5                base for test data and test routine
00001B50  00001B88                                 1314+T22      DC    A(X22)              address of test routine
00001B54  0016                                     1315+         DC    H'22'               test number
00001B56  00                                       1316+         DC    XL1'00'
00001B57  03                                       1317+         DC    HL1'3'              &M3
00001B58  00                                       1318+         DC    HL1'0'              &M4
00001B59  00                                       1319+         DC    HL1'0'              cc
00001B5A  07                                       1320+         DC    HL1'7'              cc failed mask
00001B5B  E5C3E5C2 40404040                        1321+         DC    CL8'VCVB'           instruction name
00001B64  00000010                                 1322+         DC    A(16)               result length
00001B68  00001BAC                                 1323+REA22    DC    A(RE22)             result address
00001B70  00000000 00000000                        1324+         DS    FD                        gap
00001B78  00000000 00000000                        1325+R1O22    DS    FD                  R1 OUTPUT
00001B80  00000000 00000000                        1326+         DS    FD                        gap
                                                   1327+*                                  INSTRUCTION UNDER TEST ROUTINE
00001B88                                           1328+X22      DS    0F
00001B88  E310 8EF0 0004                000010F0   1329+         LG    R1,R1FUDGE          pollute R1
00001B8E  E710 5064 0006                00001BB4   1330+         VL    V1,RE22+8           get V1 source
00001B94  E611 0030 0050                           1331+         VCVB  R1,V1,3,0           test instruction
00001B9A  E310 5028 0024                00001B78   1332+         STG   R1,R1O22            save
00001BA0  B98D 0020                                1333+         EPSW  R2,R0               exptract psw
00001BA4  5020 8EE4                     000010E4   1334+         ST    R2,CCPSW                to save CC
00001BA8  07FB                                     1335+         BR    R11                 return
00001BAC                                           1336+RE22     DC    0F
00001BAC                                           1337+         DROP  R5
00001BAC  AABBCCDD 0000000A                        1338          DC    XL08'AABBCCDD0000000A'                    R1 result
00001BB4  00000000 00000000                        1339          DC    XL16'00000000000000000000000000000010D'   V1 source
00001BBC  00000000 0000010D
                                                   1340
                                                   1341          VRR_I VCVB,3,0,0
00001BC8                                           1342+         DS    0FD
00001BC8                      00001BC8             1343+         USING *,R5                base for test data and test routine
00001BC8  00001C00                                 1344+T23      DC    A(X23)              address of test routine
00001BCC  0017                                     1345+         DC    H'23'               test number
00001BCE  00                                       1346+         DC    XL1'00'
00001BCF  03                                       1347+         DC    HL1'3'              &M3
00001BD0  00                                       1348+         DC    HL1'0'              &M4
00001BD1  00                                       1349+         DC    HL1'0'              cc
00001BD2  07                                       1350+         DC    HL1'7'              cc failed mask
00001BD3  E5C3E5C2 40404040                        1351+         DC    CL8'VCVB'           instruction name
00001BDC  00000010                                 1352+         DC    A(16)               result length
00001BE0  00001C24                                 1353+REA23    DC    A(RE23)             result address
00001BE8  00000000 00000000                        1354+         DS    FD                        gap
00001BF0  00000000 00000000                        1355+R1O23    DS    FD                  R1 OUTPUT
00001BF8  00000000 00000000                        1356+         DS    FD                        gap
                                                   1357+*                                  INSTRUCTION UNDER TEST ROUTINE
00001C00                                           1358+X23      DS    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2    STMT

00001C00  E310 8EF0 0004                 000010F0 1359+         LG    R1,R1FUDGE        pollute R1
00001C06  E710 5064 0006                 00001C2C 1360+         VL    V1,RE23+8         get V1 source
00001C0C  E611 0030 0050                          1361+         VCVB  R1,V1,3,0         test instruction
00001C12  E310 5028 0024                 00001BF0 1362+         STG   R1,R1O23          save
00001C18  B98D 0020                               1363+         EPSW  R2,R0             exptract psw
00001C1C  5020 8EE4                      000010E4 1364+         ST    R2,CCPSW              to save CC
00001C20  07FB                                    1365+         BR    R11               return
00001C24                                          1366+RE23     DC    0F
00001C24                                          1367+         DROP  R5
00001C24  AABBCCDD 0000000A                       1368          DC    XL08'AABBCCDD0000000A'                    R1 result
00001C2C  00000000 00000000                       1369          DC    XL16'00000000000000000000000000000010C'   V1 source
00001C34  00000000 0000010C
                                                  1370
                                                  1371          VRR_I VCVB,3,0,0
00001C40                                          1372+         DS    0FD
00001C40                         00001C40         1373+         USING *,R5              base for test data and test routine
00001C40  00001C78                                1374+T24      DC    A(X24)            address of test routine
00001C44  0018                                    1375+         DC    H'24'             test number
00001C46  00                                      1376+         DC    XL1'00'
00001C47  03                                      1377+         DC    HL1'3'            &M3
00001C48  00                                      1378+         DC    HL1'0'            &M4
00001C49  00                                      1379+         DC    HL1'0'            cc
00001C4A  07                                      1380+         DC    HL1'7'            cc failed mask
00001C4B  E5C3E5C2 40404040                       1381+         DC    CL8'VCVB'         instruction name
00001C54  00000010                                1382+         DC    A(16)             result length
00001C58  00001C9C                                1383+REA24    DC    A(RE24)           result address
00001C60  00000000 00000000                       1384+         DS    FD                      gap
00001C68  00000000 00000000                       1385+R1O24    DS    FD                R1 OUTPUT
00001C70  00000000 00000000                       1386+         DS    FD                      gap
                                                  1387+*                                  INSTRUCTION UNDER TEST ROUTINE
00001C78                                          1388+X24      DS    0F
00001C78  E310 8EF0 0004                 000010F0 1389+         LG    R1,R1FUDGE        pollute R1
00001C7E  E710 5064 0006                 00001CA4 1390+         VL    V1,RE24+8         get V1 source
00001C84  E611 0030 0050                          1391+         VCVB  R1,V1,3,0         test instruction
00001C8A  E310 5028 0024                 00001C68 1392+         STG   R1,R1O24          save
00001C90  B98D 0020                               1393+         EPSW  R2,R0             exptract psw
00001C94  5020 8EE4                      000010E4 1394+         ST    R2,CCPSW              to save CC
00001C98  07FB                                    1395+         BR    R11               return
00001C9C                                          1396+RE24     DC    0F
00001C9C                                          1397+         DROP  R5
00001C9C  AABBCCDD 0000000A                       1398          DC    XL08'AABBCCDD0000000A'                    R1 result
00001CA4  00000000 00000000                       1399          DC    XL16'00000000000000000000000000000010D'   V1 source
00001CAC  00000000 0000010D
                                                  1400
                                                  1401          VRR_I VCVB,3,0,0                                + SIGN - A
00001CB8                                          1402+         DS    0FD
00001CB8                         00001CB8         1403+         USING *,R5              base for test data and test routine
00001CB8  00001CF0                                1404+T25      DC    A(X25)            address of test routine
00001CBC  0019                                    1405+         DC    H'25'             test number
00001CBE  00                                      1406+         DC    XL1'00'
00001CBF  03                                      1407+         DC    HL1'3'            &M3
00001CC0  00                                      1408+         DC    HL1'0'            &M4
00001CC1  00                                      1409+         DC    HL1'0'            cc
00001CC2  07                                      1410+         DC    HL1'7'            cc failed mask
00001CC3  E5C3E5C2 40404040                       1411+         DC    CL8'VCVB'         instruction name
00001CCC  00000010                                1412+         DC    A(16)             result length
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001CD0  00001D14                                 1413+REA25    DC    A(RE25)           result address
00001CD8  00000000 00000000                        1414+         DS    FD                      gap
00001CE0  00000000 00000000                        1415+R1O25    DS    FD                R1 OUTPUT
00001CE8  00000000 00000000                        1416+         DS    FD                      gap
                                                   1417+*                                  INSTRUCTION UNDER TEST ROUTINE
00001CF0                                           1418+X25      DS    0F
00001CF0  E310 8EF0 0004                 000010F0  1419+         LG    R1,R1FUDGE        pollute R1
00001CF6  E710 5064 0006                 00001D1C  1420+         VL    V1,RE25+8         get V1 source
00001CFC  E611 0030 0050                           1421+         VCVB  R1,V1,3,0         test instruction
00001D02  E310 5028 0024                 00001CE0  1422+         STG   R1,R1O25          save
00001D08  B98D 0020                                1423+         EPSW  R2,R0             exptract psw
00001D0C  5020 8EE4                      000010E4  1424+         ST    R2,CCPSW              to save CC
00001D10  07FB                                     1425+         BR    R11               return
00001D14                                           1426+RE25     DC    0F
00001D14                                           1427+         DROP  R5
00001D14  AABBCCDD 000000FF                        1428          DC    XL08'AABBCCDD000000FF'                    R1 result
00001D1C  00000000 00000000                        1429          DC    XL16'00000000000000000000000000000255A'   V1 source
00001D24  00000000 0000255A
                                                   1430
                                                   1431          VRR_I VCVB,3,0,0                                - SIGN - B
00001D30                                           1432+         DS    0FD
00001D30                         00001D30          1433+         USING *,R5              base for test data and test routine
00001D30  00001D68                                 1434+T26      DC    A(X26)            address of test routine
00001D34  001A                                     1435+         DC    H'26'             test number
00001D36  00                                       1436+         DC    XL1'00'
00001D37  03                                       1437+         DC    HL1'3'            &M3
00001D38  00                                       1438+         DC    HL1'0'            &M4
00001D39  00                                       1439+         DC    HL1'0'            cc
00001D3A  07                                       1440+         DC    HL1'7'            cc failed mask
00001D3B  E5C3E5C2 40404040                        1441+         DC    CL8'VCVB'         instruction name
00001D44  00000010                                 1442+         DC    A(16)             result length
00001D48  00001D8C                                 1443+REA26    DC    A(RE26)           result address
00001D50  00000000 00000000                        1444+         DS    FD                      gap
00001D58  00000000 00000000                        1445+R1O26    DS    FD                R1 OUTPUT
00001D60  00000000 00000000                        1446+         DS    FD                      gap
                                                   1447+*                                  INSTRUCTION UNDER TEST ROUTINE
00001D68                                           1448+X26      DS    0F
00001D68  E310 8EF0 0004                 000010F0  1449+         LG    R1,R1FUDGE        pollute R1
00001D6E  E710 5064 0006                 00001D94  1450+         VL    V1,RE26+8         get V1 source
00001D74  E611 0030 0050                           1451+         VCVB  R1,V1,3,0         test instruction
00001D7A  E310 5028 0024                 00001D58  1452+         STG   R1,R1O26          save
00001D80  B98D 0020                                1453+         EPSW  R2,R0             exptract psw
00001D84  5020 8EE4                      000010E4  1454+         ST    R2,CCPSW              to save CC
00001D88  07FB                                     1455+         BR    R11               return
00001D8C                                           1456+RE26     DC    0F
00001D8C                                           1457+         DROP  R5
00001D8C  AABBCCDD 000000FF                        1458          DC    XL08'AABBCCDD000000FF'                    R1 result
00001D94  00000000 00000000                        1459          DC    XL16'00000000000000000000000000000255B'   V1 source
00001D9C  00000000 0000255B
                                                   1460
                                                   1461          VRR_I VCVB,3,0,0                                + SIGN - E
00001DA8                                           1462+         DS    0FD
00001DA8                         00001DA8          1463+         USING *,R5              base for test data and test routine
00001DA8  00001DE0                                 1464+T27      DC    A(X27)            address of test routine
00001DAC  001B                                     1465+         DC    H'27'             test number
00001DAE  00                                       1466+         DC    XL1'00'
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001DAF  03                                      1467+         DC    HL1'3'            &M3
00001DB0  00                                      1468+         DC    HL1'0'            &M4
00001DB1  00                                      1469+         DC    HL1'0'            cc
00001DB2  07                                      1470+         DC    HL1'7'            cc failed mask
00001DB3  E5C3E5C2 40404040                       1471+         DC    CL8'VCVB'         instruction name
00001DBC  00000010                                1472+         DC    A(16)             result length
00001DC0  00001E04                                1473+REA27    DC    A(RE27)           result address
00001DC8  00000000 00000000                       1474+         DS    FD                      gap
00001DD0  00000000 00000000                       1475+R1O27    DS    FD                R1 OUTPUT
00001DD8  00000000 00000000                       1476+         DS    FD                      gap
                                                  1477+*                                  INSTRUCTION UNDER TEST ROUTINE
00001DE0                                          1478+X27      DS    0F
00001DE0  E310 8EF0 0004                000010F0  1479+         LG    R1,R1FUDGE        pollute R1
00001DE6  E710 5064 0006                00001E0C  1480+         VL    V1,RE27+8         get V1 source
00001DEC  E611 0030 0050                          1481+         VCVB  R1,V1,3,0         test instruction
00001DF2  E310 5028 0024                00001DD0  1482+         STG   R1,R1O27          save
00001DF8  B98D 0020                               1483+         EPSW  R2,R0             exptract psw
00001DFC  5020 8EE4                     000010E4  1484+         ST    R2,CCPSW              to save CC
00001E00  07FB                                    1485+         BR    R11               return
00001E04                                          1486+RE27     DC    0F
00001E04                                          1487+         DROP  R5
00001E04  AABBCCDD 000000FF                       1488          DC    XL08'AABBCCDD000000FF'                    R1 result
00001E0C  00000000 00000000                       1489          DC    XL16'0000000000000000000000000000255E'    V1 source
00001E14  00000000 0000255E
                                                  1490
                                                  1491          VRR_I VCVB,3,0,0                                + SIGN - F
00001E20                                          1492+         DS    0FD
00001E20                        00001E20          1493+         USING *,R5              base for test data and test routine
00001E20  00001E58                                1494+T28      DC    A(X28)            address of test routine
00001E24  001C                                    1495+         DC    H'28'             test number
00001E26  00                                      1496+         DC    XL1'00'
00001E27  03                                      1497+         DC    HL1'3'            &M3
00001E28  00                                      1498+         DC    HL1'0'            &M4
00001E29  00                                      1499+         DC    HL1'0'            cc
00001E2A  07                                      1500+         DC    HL1'7'            cc failed mask
00001E2B  E5C3E5C2 40404040                       1501+         DC    CL8'VCVB'         instruction name
00001E34  00000010                                1502+         DC    A(16)             result length
00001E38  00001E7C                                1503+REA28    DC    A(RE28)           result address
00001E40  00000000 00000000                       1504+         DS    FD                      gap
00001E48  00000000 00000000                       1505+R1O28    DS    FD                R1 OUTPUT
00001E50  00000000 00000000                       1506+         DS    FD                      gap
                                                  1507+*                                  INSTRUCTION UNDER TEST ROUTINE
00001E58                                          1508+X28      DS    0F
00001E58  E310 8EF0 0004                000010F0  1509+         LG    R1,R1FUDGE        pollute R1
00001E5E  E710 5064 0006                00001E84  1510+         VL    V1,RE28+8         get V1 source
00001E64  E611 0030 0050                          1511+         VCVB  R1,V1,3,0         test instruction
00001E6A  E310 5028 0024                00001E48  1512+         STG   R1,R1O28          save
00001E70  B98D 0020                               1513+         EPSW  R2,R0             exptract psw
00001E74  5020 8EE4                     000010E4  1514+         ST    R2,CCPSW              to save CC
00001E78  07FB                                    1515+         BR    R11               return
00001E7C                                          1516+RE28     DC    0F
00001E7C                                          1517+         DROP  R5
00001E7C  AABBCCDD 000000FF                       1518          DC    XL08'AABBCCDD000000FF'                    R1 result
00001E84  00000000 00000000                       1519          DC    XL16'0000000000000000000000000000255F'    V1 source
00001E8C  00000000 0000255F
                                                  1520
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   1521          VRR_I VCVB,3,0,0
00001E98                                           1522+         DS    0FD
00001E98                     00001E98              1523+         USING *,R5              base for test data and test routine
00001E98  00001ED0                                 1524+T29      DC    A(X29)            address of test routine
00001E9C  001D                                     1525+         DC    H'29'             test number
00001E9E  00                                       1526+         DC    XL1'00'
00001E9F  03                                       1527+         DC    HL1'3'            &M3
00001EA0  00                                       1528+         DC    HL1'0'            &M4
00001EA1  00                                       1529+         DC    HL1'0'            cc
00001EA2  07                                       1530+         DC    HL1'7'            cc failed mask
00001EA3  E5C3E5C2 40404040                        1531+         DC    CL8'VCVB'         instruction name
00001EAC  00000010                                 1532+         DC    A(16)             result length
00001EB0  00001EF4                                 1533+REA29    DC    A(RE29)           result address
00001EB8  00000000 00000000                        1534+         DS    FD                      gap
00001EC0  00000000 00000000                        1535+R1O29    DS    FD                R1 OUTPUT
00001EC8  00000000 00000000                        1536+         DS    FD                      gap
                                                   1537+*                                  INSTRUCTION UNDER TEST ROUTINE
00001ED0                                           1538+X29      DS    0F
00001ED0  E310 8EF0 0004                000010F0   1539+         LG    R1,R1FUDGE        pollute R1
00001ED6  E710 5064 0006                00001EFC   1540+         VL    V1,RE29+8         get V1 source
00001EDC  E611 0030 0050                           1541+         VCVB  R1,V1,3,0         test instruction
00001EE2  E310 5028 0024                00001EC0   1542+         STG   R1,R1O29          save
00001EE8  B98D 0020                                1543+         EPSW  R2,R0             exptract psw
00001EEC  5020 8EE4                     000010E4   1544+         ST    R2,CCPSW              to save CC
00001EF0  07FB                                     1545+         BR    R11               return
00001EF4                                           1546+RE29     DC    0F
00001EF4                                           1547+         DROP  R5
00001EF4  AABBCCDD 0008A160                        1548          DC    XL08'AABBCCDD0008A160'                  R1 result
00001EFC  00000000 00000000                        1549          DC    XL16'0000000000000000000000000565600C'  V1 source
00001F04  00000000 0565600C
                                                   1550
                                                   1551          VRR_I VCVB,3,0,0
00001F10                                           1552+         DS    0FD
00001F10                     00001F10              1553+         USING *,R5              base for test data and test routine
00001F10  00001F48                                 1554+T30      DC    A(X30)            address of test routine
00001F14  001E                                     1555+         DC    H'30'             test number
00001F16  00                                       1556+         DC    XL1'00'
00001F17  03                                       1557+         DC    HL1'3'            &M3
00001F18  00                                       1558+         DC    HL1'0'            &M4
00001F19  00                                       1559+         DC    HL1'0'            cc
00001F1A  07                                       1560+         DC    HL1'7'            cc failed mask
00001F1B  E5C3E5C2 40404040                        1561+         DC    CL8'VCVB'         instruction name
00001F24  00000010                                 1562+         DC    A(16)             result length
00001F28  00001F6C                                 1563+REA30    DC    A(RE30)           result address
00001F30  00000000 00000000                        1564+         DS    FD                      gap
00001F38  00000000 00000000                        1565+R1O30    DS    FD                R1 OUTPUT
00001F40  00000000 00000000                        1566+         DS    FD                      gap
                                                   1567+*                                  INSTRUCTION UNDER TEST ROUTINE
00001F48                                           1568+X30      DS    0F
00001F48  E310 8EF0 0004                000010F0   1569+         LG    R1,R1FUDGE        pollute R1
00001F4E  E710 5064 0006                00001F74   1570+         VL    V1,RE30+8         get V1 source
00001F54  E611 0030 0050                           1571+         VCVB  R1,V1,3,0         test instruction
00001F5A  E310 5028 0024                00001F38   1572+         STG   R1,R1O30          save
00001F60  B98D 0020                                1573+         EPSW  R2,R0             exptract psw
00001F64  5020 8EE4                     000010E4   1574+         ST    R2,CCPSW              to save CC
00001F68  07FB                                     1575+         BR    R11               return
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00001F6C                                           1576+RE30     DC    0F
00001F6C                                           1577+         DROP  R5
00001F6C  AABBCCDD 0008A160                        1578          DC    XL08'AABBCCDD0008A160'                    R1 result
00001F74  00000000 00000000                        1579          DC    XL16'000000000000000000000000565600D'     V1 source
00001F7C  00000000 0565600D
                                                   1580
                                                   1581          VRR_I VCVB,3,0,0                                INT_MAX
00001F88                                           1582+         DS    0FD
00001F88                      00001F88             1583+         USING *,R5              base for test data and test routine
00001F88  00001FC0                                 1584+T31      DC    A(X31)            address of test routine
00001F8C  001F                                     1585+         DC    H'31'             test number
00001F8E  00                                       1586+         DC    XL1'00'
00001F8F  03                                       1587+         DC    HL1'3'            &M3
00001F90  00                                       1588+         DC    HL1'0'            &M4
00001F91  00                                       1589+         DC    HL1'0'            cc
00001F92  07                                       1590+         DC    HL1'7'            cc failed mask
00001F93  E5C3E5C2 40404040                        1591+         DC    CL8'VCVB'         instruction name
00001F9C  00000010                                 1592+         DC    A(16)             result length
00001FA0  00001FE4                                 1593+REA31    DC    A(RE31)           result address
00001FA8  00000000 00000000                        1594+         DS    FD                      gap
00001FB0  00000000 00000000                        1595+R1O31    DS    FD                R1 OUTPUT
00001FB8  00000000 00000000                        1596+         DS    FD                      gap
                                                   1597+*                                  INSTRUCTION UNDER TEST ROUTINE
00001FC0                                           1598+X31      DS    0F
00001FC0  E310 8EF0 0004                000010F0   1599+         LG    R1,R1FUDGE        pollute R1
00001FC6  E710 5064 0006                00001FEC   1600+         VL    V1,RE31+8         get V1 source
00001FCC  E611 0030 0050                           1601+         VCVB  R1,V1,3,0         test instruction
00001FD2  E310 5028 0024                00001FB0   1602+         STG   R1,R1O31          save
00001FD8  B98D 0020                                1603+         EPSW  R2,R0             exptract psw
00001FDC  5020 8EE4                     000010E4   1604+         ST    R2,CCPSW              to save CC
00001FE0  07FB                                     1605+         BR    R11               return
00001FE4                                           1606+RE31     DC    0F
00001FE4                                           1607+         DROP  R5
00001FE4  AABBCCDD 7FFFFFFF                        1608          DC    XL08'AABBCCDD7FFFFFFF'                    R1 result
00001FEC  00000000 00000000                        1609          DC    XL16'000000000000000000000002147483647C'  V1 source
00001FF4  00000214 7483647C
                                                   1610
                                                   1611          VRR_I VCVB,3,0,0                                INT_MIN
00002000                                           1612+         DS    0FD
00002000                      00002000             1613+         USING *,R5              base for test data and test routine
00002000  00002038                                 1614+T32      DC    A(X32)            address of test routine
00002004  0020                                     1615+         DC    H'32'             test number
00002006  00                                       1616+         DC    XL1'00'
00002007  03                                       1617+         DC    HL1'3'            &M3
00002008  00                                       1618+         DC    HL1'0'            &M4
00002009  00                                       1619+         DC    HL1'0'            cc
0000200A  07                                       1620+         DC    HL1'7'            cc failed mask
0000200B  E5C3E5C2 40404040                        1621+         DC    CL8'VCVB'         instruction name
00002014  00000010                                 1622+         DC    A(16)             result length
00002018  0000205C                                 1623+REA32    DC    A(RE32)           result address
00002020  00000000 00000000                        1624+         DS    FD                      gap
00002028  00000000 00000000                        1625+R1O32    DS    FD                R1 OUTPUT
00002030  00000000 00000000                        1626+         DS    FD                      gap
                                                   1627+*                                  INSTRUCTION UNDER TEST ROUTINE
00002038                                           1628+X32      DS    0F
00002038  E310 8EF0 0004                000010F0   1629+         LG    R1,R1FUDGE        pollute R1
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000203E  E710 5064 0006                00002064  1630+         VL    V1,RE32+8         get V1 source
00002044  E611 0030 0050                          1631+         VCVB  R1,V1,3,0         test instruction
0000204A  E310 5028 0024                00002028  1632+         STG   R1,R1O32          save
00002050  B98D 0020                               1633+         EPSW  R2,R0             exptract psw
00002054  5020 8EE4                     000010E4  1634+         ST    R2,CCPSW              to save CC
00002058  07FB                                    1635+         BR    R11               return
0000205C                                          1636+RE32     DC    0F
0000205C                                          1637+         DROP  R5
0000205C  AABBCCDD 80000000                       1638          DC    XL08'AABBCCDD80000000'                    R1 result
00002064  00000000 00000000                       1639          DC    XL16'00000000000000000000002147483648D'   V1 source
0000206C  00000214 7483648D
                                                  1640
                                                  1641          VRR_I VCVB,3,0,0                                UINT_MAX
00002078                                          1642+         DS    0FD
00002078                        00002078          1643+         USING *,R5              base for test data and test routine
00002078  000020B0                                1644+T33      DC    A(X33)            address of test routine
0000207C  0021                                    1645+         DC    H'33'             test number
0000207E  00                                      1646+         DC    XL1'00'
0000207F  03                                      1647+         DC    HL1'3'            &M3
00002080  00                                      1648+         DC    HL1'0'            &M4
00002081  00                                      1649+         DC    HL1'0'            cc
00002082  07                                      1650+         DC    HL1'7'            cc failed mask
00002083  E5C3E5C2 40404040                       1651+         DC    CL8'VCVB'         instruction name
0000208C  00000010                                1652+         DC    A(16)             result length
00002090  000020D4                                1653+REA33    DC    A(RE33)           result address
00002098  00000000 00000000                       1654+         DS    FD                      gap
000020A0  00000000 00000000                       1655+R1O33    DS    FD                R1 OUTPUT
000020A8  00000000 00000000                       1656+         DS    FD                      gap
                                                  1657+*                                  INSTRUCTION UNDER TEST ROUTINE
000020B0                                          1658+X33      DS    0F
000020B0  E310 8EF0 0004                000010F0  1659+         LG    R1,R1FUDGE        pollute R1
000020B6  E710 5064 0006                000020DC  1660+         VL    V1,RE33+8         get V1 source
000020BC  E611 0030 0050                          1661+         VCVB  R1,V1,3,0         test instruction
000020C2  E310 5028 0024                000020A0  1662+         STG   R1,R1O33          save
000020C8  B98D 0020                               1663+         EPSW  R2,R0             exptract psw
000020CC  5020 8EE4                     000010E4  1664+         ST    R2,CCPSW              to save CC
000020D0  07FB                                    1665+         BR    R11               return
000020D4                                          1666+RE33     DC    0F
000020D4                                          1667+         DROP  R5
000020D4  AABBCCDD FFFFFFFF                       1668          DC    XL08'AABBCCDDFFFFFFFF'                    R1 result
000020DC  00000000 00000000                       1669          DC    XL16'00000000000000000000004294967295C'   V1 source
000020E4  00000429 4967295C
                                                  1670
                                                  1671 * VCVB   m3=3 (p2=0, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                  1672 *        cc=3 (overflow)
                                                  1673          VRR_I VCVB,3,0,3                                UINT_MAX +1
000020F0                                          1674+         DS    0FD
000020F0                        000020F0          1675+         USING *,R5              base for test data and test routine
000020F0  00002128                                1676+T34      DC    A(X34)            address of test routine
000020F4  0022                                    1677+         DC    H'34'             test number
000020F6  00                                      1678+         DC    XL1'00'
000020F7  03                                      1679+         DC    HL1'3'            &M3
000020F8  00                                      1680+         DC    HL1'0'            &M4
000020F9  03                                      1681+         DC    HL1'3'            cc
000020FA  0E                                      1682+         DC    HL1'14'           cc failed mask
000020FB  E5C3E5C2 40404040                       1683+         DC    CL8'VCVB'         instruction name
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002104  00000010                                 1684+          DC    A(16)              result length
00002108  0000214C                                 1685+REA34     DC    A(RE34)            result address
00002110  00000000 00000000                        1686+          DS    FD                       gap
00002118  00000000 00000000                        1687+R1O34     DS    FD                 R1 OUTPUT
00002120  00000000 00000000                        1688+          DS    FD                       gap
                                                   1689+*                                   INSTRUCTION UNDER TEST ROUTINE
00002128                                           1690+X34       DS    0F
00002128  E310 8EF0 0004                 000010F0  1691+          LG    R1,R1FUDGE         pollute R1
0000212E  E710 5064 0006                 00002154  1692+          VL    V1,RE34+8          get V1 source
00002134  E611 0030 0050                           1693+          VCVB  R1,V1,3,0          test instruction
0000213A  E310 5028 0024                 00002118  1694+          STG   R1,R1O34           save
00002140  B98D 0020                                1695+          EPSW  R2,R0              exptract psw
00002144  5020 8EE4                      000010E4  1696+          ST    R2,CCPSW               to save CC
00002148  07FB                                     1697+          BR    R11                return
0000214C                                           1698+RE34      DC    0F
0000214C                                           1699+          DROP  R5
0000214C  AABBCCDD 00000000                        1700           DC    XL08'AABBCCDD00000000'                    R1 result
00002154  00000000 00000000                        1701           DC    XL16'00000000000000000000004294967296C'   V1 source
0000215C  00000429 4967296C
                                                   1702
                                                   1703           VRR_I VCVB,3,0,3
00002168                                           1704+          DS    0FD
00002168                         00002168          1705+          USING *,R5               base for test data and test routine
00002168  000021A0                                 1706+T35       DC    A(X35)             address of test routine
0000216C  0023                                     1707+          DC    H'35'              test number
0000216E  00                                       1708+          DC    XL1'00'
0000216F  03                                       1709+          DC    HL1'3'             &M3
00002170  00                                       1710+          DC    HL1'0'             &M4
00002171  03                                       1711+          DC    HL1'3'             cc
00002172  0E                                       1712+          DC    HL1'14'            cc failed mask
00002173  E5C3E5C2 40404040                        1713+          DC    CL8'VCVB'          instruction name
0000217C  00000010                                 1714+          DC    A(16)              result length
00002180  000021C4                                 1715+REA35     DC    A(RE35)            result address
00002188  00000000 00000000                        1716+          DS    FD                       gap
00002190  00000000 00000000                        1717+R1O35     DS    FD                 R1 OUTPUT
00002198  00000000 00000000                        1718+          DS    FD                       gap
                                                   1719+*                                   INSTRUCTION UNDER TEST ROUTINE
000021A0                                           1720+X35       DS    0F
000021A0  E310 8EF0 0004                 000010F0  1721+          LG    R1,R1FUDGE         pollute R1
000021A6  E710 5064 0006                 000021CC  1722+          VL    V1,RE35+8          get V1 source
000021AC  E611 0030 0050                           1723+          VCVB  R1,V1,3,0          test instruction
000021B2  E310 5028 0024                 00002190  1724+          STG   R1,R1O35           save
000021B8  B98D 0020                                1725+          EPSW  R2,R0              exptract psw
000021BC  5020 8EE4                      000010E4  1726+          ST    R2,CCPSW               to save CC
000021C0  07FB                                     1727+          BR    R11                return
000021C4                                           1728+RE35      DC    0F
000021C4                                           1729+          DROP  R5
000021C4  AABBCCDD DF8E1660                        1730           DC    XL08'AABBCCDDDF8E1660'                    R1 result
000021CC  00000000 00000000                        1731           DC    XL16'00000000000000000000012340565600C'   V1 source
000021D4  00001234 0565600C
                                                   1732
                                                   1733 * VCVB    m3=3 (p2=0, lb=1, cs=1)      m4=4 (iom=0, orc=1)
                                                   1734 *         cc=3 (overflow)
                                                   1735           VRR_I VCVB,3,4,3                               UINT_MAX +1
000021E0                                           1736+          DS    0FD
000021E0                         000021E0          1737+          USING *,R5               base for test data and test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000021E0  00002218                                 1738+T36      DC    A(X36)            address of test routine
000021E4  0024                                     1739+         DC    H'36'             test number
000021E6  00                                       1740+         DC    XL1'00'
000021E7  03                                       1741+         DC    HL1'3'            &M3
000021E8  04                                       1742+         DC    HL1'4'            &M4
000021E9  03                                       1743+         DC    HL1'3'            cc
000021EA  0E                                       1744+         DC    HL1'14'           cc failed mask
000021EB  E5C3E5C2 40404040                        1745+         DC    CL8'VCVB'         instruction name
000021F4  00000010                                 1746+         DC    A(16)             result length
000021F8  0000223C                                 1747+REA36    DC    A(RE36)           result address
00002200  00000000 00000000                        1748+         DS    FD                      gap
00002208  00000000 00000000                        1749+R1O36    DS    FD                R1 OUTPUT
00002210  00000000 00000000                        1750+         DS    FD                      gap
                                                   1751+*                                  INSTRUCTION UNDER TEST ROUTINE
00002218                                           1752+X36      DS    0F
00002218  E310 8EF0 0004                 000010F0  1753+         LG    R1,R1FUDGE        pollute R1
0000221E  E710 A044 0006                 00002244  1754+         VL    V1,RE36+8         get V1 source
00002224  E611 0034 0050                           1755+         VCVB  R1,V1,3,4         test instruction
0000222A  E310 A008 0024                 00002208  1756+         STG   R1,R1O36          save
00002230  B98D 0020                                1757+         EPSW  R2,R0             exptract psw
00002234  5020 8EE4                      000010E4  1758+         ST    R2,CCPSW              to save CC
00002238  07FB                                     1759+         BR    R11               return
0000223C                                           1760+RE36     DC    0F
0000223C                                           1761+         DROP  R5
0000223C  AABBCCDD 00000000                        1762          DC    XL08'AABBCCDD00000000'                  R1 result
00002244  00000000 00000000                        1763          DC    XL16'00000000000000000000004294967296C'  V1 source
0000224C  00000429 4967296C
                                                   1764
                                                   1765          VRR_I VCVB,3,4,3
00002258                                           1766+         DS    0FD
00002258                         00002258          1767+         USING *,R5              base for test data and test routine
00002258  00002290                                 1768+T37      DC    A(X37)            address of test routine
0000225C  0025                                     1769+         DC    H'37'             test number
0000225E  00                                       1770+         DC    XL1'00'
0000225F  03                                       1771+         DC    HL1'3'            &M3
00002260  04                                       1772+         DC    HL1'4'            &M4
00002261  03                                       1773+         DC    HL1'3'            cc
00002262  0E                                       1774+         DC    HL1'14'           cc failed mask
00002263  E5C3E5C2 40404040                        1775+         DC    CL8'VCVB'         instruction name
0000226C  00000010                                 1776+         DC    A(16)             result length
00002270  000022B4                                 1777+REA37    DC    A(RE37)           result address
00002278  00000000 00000000                        1778+         DS    FD                      gap
00002280  00000000 00000000                        1779+R1O37    DS    FD                R1 OUTPUT
00002288  00000000 00000000                        1780+         DS    FD                      gap
                                                   1781+*                                  INSTRUCTION UNDER TEST ROUTINE
00002290                                           1782+X37      DS    0F
00002290  E310 8EF0 0004                 000010F0  1783+         LG    R1,R1FUDGE        pollute R1
00002296  E710 5064 0006                 000022BC  1784+         VL    V1,RE37+8         get V1 source
0000229C  E611 0034 0050                           1785+         VCVB  R1,V1,3,4         test instruction
000022A2  E310 5028 0024                 00002280  1786+         STG   R1,R1O37          save
000022A8  B98D 0020                                1787+         EPSW  R2,R0             exptract psw
000022AC  5020 8EE4                      000010E4  1788+         ST    R2,CCPSW              to save CC
000022B0  07FB                                     1789+         BR    R11               return
000022B4                                           1790+RE37     DC    0F
000022B4                                           1791+         DROP  R5
000022B4  AABBCCDD 00000000                        1792          DC    XL08'AABBCCDD00000000'                  R1 result
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000022BC  00000000 00000000                        1793          DC    XL16'00000000000000000000012340565600C'  V1 source
000022C4  00001234 0565600C
                                                   1794
                                                   1795 * VCVB   m3=9 (p2=1, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                   1796 *        cc=0 (no overflow)
                                                   1797          VRR_I VCVB,9,0,0
000022D0                                           1798+         DS    0FD
000022D0                       000022D0            1799+         USING *,R5                base for test data and test routine
000022D0  00002308                                 1800+T38      DC    A(X38)              address of test routine
000022D4  0026                                     1801+         DC    H'38'               test number
000022D6  00                                       1802+         DC    XL1'00'
000022D7  09                                       1803+         DC    HL1'9'              &M3
000022D8  00                                       1804+         DC    HL1'0'              &M4
000022D9  00                                       1805+         DC    HL1'0'              cc
000022DA  07                                       1806+         DC    HL1'7'              cc failed mask
000022DB  E5C3E5C2 40404040                        1807+         DC    CL8'VCVB'           instruction name
000022E4  00000010                                 1808+         DC    A(16)               result length
000022E8  0000232C                                 1809+REA38    DC    A(RE38)             result address
000022F0  00000000 00000000                        1810+         DS    FD                        gap
000022F8  00000000 00000000                        1811+R1O38    DS    FD                  R1 OUTPUT
00002300  00000000 00000000                        1812+         DS    FD                        gap
                                                   1813+*                                  INSTRUCTION UNDER TEST ROUTINE
00002308                                           1814+X38      DS    0F
00002308  E310 8EF0 0004                000010F0   1815+         LG    R1,R1FUDGE          pollute R1
0000230E  E710 5064 0006                00002334   1816+         VL    V1,RE38+8           get V1 source
00002314  E611 0090 0050                           1817+         VCVB  R1,V1,9,0           test instruction
0000231A  E310 5028 0024                000022F8   1818+         STG   R1,R1O38            save
00002320  B98D 0020                                1819+         EPSW  R2,R0               exptract psw
00002324  5020 8EE4                     000010E4   1820+         ST    R2,CCPSW                to save CC
00002328  07FB                                     1821+         BR    R11                 return
0000232C                                           1822+RE38     DC    0F
0000232C                                           1823+         DROP  R5
0000232C  AABBCCDD 0000000A                        1824          DC    XL08'AABBCCDD0000000A'                  R1 result
00002334  00000000 00000000                        1825          DC    XL16'00000000000000000000000000000010C'  V1 source
0000233C  00000000 0000010C
                                                   1826
                                                   1827          VRR_I VCVB,9,0,0
00002348                                           1828+         DS    0FD
00002348                       00002348            1829+         USING *,R5                base for test data and test routine
00002348  00002380                                 1830+T39      DC    A(X39)              address of test routine
0000234C  0027                                     1831+         DC    H'39'               test number
0000234E  00                                       1832+         DC    XL1'00'
0000234F  09                                       1833+         DC    HL1'9'              &M3
00002350  00                                       1834+         DC    HL1'0'              &M4
00002351  00                                       1835+         DC    HL1'0'              cc
00002352  07                                       1836+         DC    HL1'7'              cc failed mask
00002353  E5C3E5C2 40404040                        1837+         DC    CL8'VCVB'           instruction name
0000235C  00000010                                 1838+         DC    A(16)               result length
00002360  000023A4                                 1839+REA39    DC    A(RE39)             result address
00002368  00000000 00000000                        1840+         DS    FD                        gap
00002370  00000000 00000000                        1841+R1O39    DS    FD                  R1 OUTPUT
00002378  00000000 00000000                        1842+         DS    FD                        gap
                                                   1843+*                                  INSTRUCTION UNDER TEST ROUTINE
00002380                                           1844+X39      DS    0F
00002380  E310 8EF0 0004                000010F0   1845+         LG    R1,R1FUDGE          pollute R1
00002386  E710 5064 0006                000023AC   1846+         VL    V1,RE39+8           get V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000238C  E611 0090 0050                           1847+         VCVB  R1,V1,9,0         test instruction
00002392  E310 5028 0024                 00002370  1848+         STG   R1,R1O39          save
00002398  B98D 0020                                1849+         EPSW  R2,R0             exptract psw
0000239C  5020 8EE4                      000010E4  1850+         ST    R2,CCPSW              to save CC
000023A0  07FB                                     1851+         BR    R11               return
000023A4                                           1852+RE39     DC    0F
000023A4                                           1853+         DROP  R5
000023A4  AABBCCDD 0000000A                        1854          DC    XL08'AABBCCDD0000000A'                    R1 result
000023AC  00000000 00000000                        1855          DC    XL16'00000000000000000000000000000010D'   V1 source
000023B4  00000000 0000010D
                                                   1856
                                                   1857          VRR_I VCVB,9,0,0
000023C0                                           1858+         DS    0FD
000023C0                         000023C0          1859+         USING *,R5              base for test data and test routine
000023C0  000023F8                                 1860+T40      DC    A(X40)            address of test routine
000023C4  0028                                     1861+         DC    H'40'             test number
000023C6  00                                       1862+         DC    XL1'00'
000023C7  09                                       1863+         DC    HL1'9'            &M3
000023C8  00                                       1864+         DC    HL1'0'            &M4
000023C9  00                                       1865+         DC    HL1'0'            cc
000023CA  07                                       1866+         DC    HL1'7'            cc failed mask
000023CB  E5C3E5C2 40404040                        1867+         DC    CL8'VCVB'         instruction name
000023D4  00000010                                 1868+         DC    A(16)             result length
000023D8  0000241C                                 1869+REA40    DC    A(RE40)           result address
000023E0  00000000 00000000                        1870+         DS    FD                      gap
000023E8  00000000 00000000                        1871+R1O40    DS    FD                R1 OUTPUT
000023F0  00000000 00000000                        1872+         DS    FD                      gap
                                                   1873+*                                INSTRUCTION UNDER TEST ROUTINE
000023F8                                           1874+X40      DS    0F
000023F8  E310 8EF0 0004                 000010F0  1875+         LG    R1,R1FUDGE        pollute R1
000023FE  E710 5064 0006                 00002424  1876+         VL    V1,RE40+8         get V1 source
00002404  E611 0090 0050                           1877+         VCVB  R1,V1,9,0         test instruction
0000240A  E310 5028 0024                 000023E8  1878+         STG   R1,R1O40          save
00002410  B98D 0020                                1879+         EPSW  R2,R0             exptract psw
00002414  5020 8EE4                      000010E4  1880+         ST    R2,CCPSW              to save CC
00002418  07FB                                     1881+         BR    R11               return
0000241C                                           1882+RE40     DC    0F
0000241C                                           1883+         DROP  R5
0000241C  AABBCCDD 0008A160                        1884          DC    XL08'AABBCCDD0008A160'                    R1 result
00002424  00000000 00000000                        1885          DC    XL16'0000000000000000000000000565600C'    V1 source
0000242C  00000000 0565600C
                                                   1886
                                                   1887          VRR_I VCVB,9,0,0
00002438                                           1888+         DS    0FD
00002438                         00002438          1889+         USING *,R5              base for test data and test routine
00002438  00002470                                 1890+T41      DC    A(X41)            address of test routine
0000243C  0029                                     1891+         DC    H'41'             test number
0000243E  00                                       1892+         DC    XL1'00'
0000243F  09                                       1893+         DC    HL1'9'            &M3
00002440  00                                       1894+         DC    HL1'0'            &M4
00002441  00                                       1895+         DC    HL1'0'            cc
00002442  07                                       1896+         DC    HL1'7'            cc failed mask
00002443  E5C3E5C2 40404040                        1897+         DC    CL8'VCVB'         instruction name
0000244C  00000010                                 1898+         DC    A(16)             result length
00002450  00002494                                 1899+REA41    DC    A(RE41)           result address
00002458  00000000 00000000                        1900+         DS    FD                      gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002460  00000000 00000000                        1901+R1O41    DS    FD                R1 OUTPUT
00002468  00000000 00000000                        1902+         DS    FD                      gap
                                                   1903+*                                  INSTRUCTION UNDER TEST ROUTINE
00002470                                           1904+X41      DS    0F
00002470  E310 8EF0 0004                 000010F0  1905+         LG    R1,R1FUDGE        pollute R1
00002476  E710 5064 0006                 0000249C  1906+         VL    V1,RE41+8         get V1 source
0000247C  E611 0090 0050                           1907+         VCVB  R1,V1,9,0         test instruction
00002482  E310 5028 0024                 00002460  1908+         STG   R1,R1O41          save
00002488  B98D 0020                                1909+         EPSW  R2,R0             exptract psw
0000248C  5020 8EE4                      000010E4  1910+         ST    R2,CCPSW              to save CC
00002490  07FB                                     1911+         BR    R11               return
00002494                                           1912+RE41     DC    0F
00002494                                           1913+         DROP  R5
00002494  AABBCCDD 0008A160                        1914          DC    XL08'AABBCCDD0008A160'                    R1 result
0000249C  00000000 00000000                        1915          DC    XL16'00000000000000000000000000565600D'   V1 source
000024A4  00000000 0565600D
                                                   1916
                                                   1917          VRR_I VCVB,9,0,0                                R1 INT_MAX
000024B0                                           1918+         DS    0FD
000024B0                         000024B0          1919+         USING *,R5              base for test data and test routine
000024B0  000024E8                                 1920+T42      DC    A(X42)            address of test routine
000024B4  002A                                     1921+         DC    H'42'             test number
000024B6  00                                       1922+         DC    XL1'00'
000024B7  09                                       1923+         DC    HL1'9'            &M3
000024B8  00                                       1924+         DC    HL1'0'            &M4
000024B9  00                                       1925+         DC    HL1'0'            cc
000024BA  07                                       1926+         DC    HL1'7'            cc failed mask
000024BB  E5C3E5C2 40404040                        1927+         DC    CL8'VCVB'         instruction name
000024C4  00000010                                 1928+         DC    A(16)             result length
000024C8  0000250C                                 1929+REA42    DC    A(RE42)           result address
000024D0  00000000 00000000                        1930+         DS    FD                      gap
000024D8  00000000 00000000                        1931+R1O42    DS    FD                R1 OUTPUT
000024E0  00000000 00000000                        1932+         DS    FD                      gap
                                                   1933+*                                  INSTRUCTION UNDER TEST ROUTINE
000024E8                                           1934+X42      DS    0F
000024E8  E310 8EF0 0004                 000010F0  1935+         LG    R1,R1FUDGE        pollute R1
000024EE  E710 5064 0006                 00002514  1936+         VL    V1,RE42+8         get V1 source
000024F4  E611 0090 0050                           1937+         VCVB  R1,V1,9,0         test instruction
000024FA  E310 5028 0024                 000024D8  1938+         STG   R1,R1O42          save
00002500  B98D 0020                                1939+         EPSW  R2,R0             exptract psw
00002504  5020 8EE4                      000010E4  1940+         ST    R2,CCPSW              to save CC
00002508  07FB                                     1941+         BR    R11               return
0000250C                                           1942+RE42     DC    0F
0000250C                                           1943+         DROP  R5
0000250C  AABBCCDD 7FFFFFFF                        1944          DC    XL08'AABBCCDD7FFFFFFF'                    R1 result
00002514  00000000 00000000                        1945          DC    XL16'0000000000000000000002147483647C'    V1 source
0000251C  00000214 7483647C
                                                   1946
                                                   1947          VRR_I VCVB,9,0,0
00002528                                           1948+         DS    0FD
00002528                         00002528          1949+         USING *,R5              base for test data and test routine
00002528  00002560                                 1950+T43      DC    A(X43)            address of test routine
0000252C  002B                                     1951+         DC    H'43'             test number
0000252E  00                                       1952+         DC    XL1'00'
0000252F  09                                       1953+         DC    HL1'9'            &M3
00002530  00                                       1954+         DC    HL1'0'            &M4
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002531  00                                       1955+         DC    HL1'0'            cc
00002532  07                                       1956+         DC    HL1'7'            cc failed mask
00002533  E5C3E5C2 40404040                        1957+         DC    CL8'VCVB'         instruction name
0000253C  00000010                                 1958+         DC    A(16)             result length
00002540  00002584                                 1959+REA43    DC    A(RE43)           result address
00002548  00000000 00000000                        1960+         DS    FD                      gap
00002550  00000000 00000000                        1961+R1O43    DS    FD                R1 OUTPUT
00002558  00000000 00000000                        1962+         DS    FD                      gap
                                                   1963+*                                  INSTRUCTION UNDER TEST ROUTINE
00002560                                           1964+X43      DS    0F
00002560  E310 8EF0 0004                000010F0   1965+         LG    R1,R1FUDGE        pollute R1
00002566  E710 5064 0006                0000258C   1966+         VL    V1,RE43+8         get V1 source
0000256C  E611 0090 0050                           1967+         VCVB  R1,V1,9,0         test instruction
00002572  E310 5028 0024                00002550   1968+         STG   R1,R1O43          save
00002578  B98D 0020                                1969+         EPSW  R2,R0             exptract psw
0000257C  5020 8EE4                     000010E4   1970+         ST    R2,CCPSW              to save CC
00002580  07FB                                     1971+         BR    R11               return
00002584                                           1972+RE43     DC    0F
00002584                                           1973+         DROP  R5
00002584  AABBCCDD 0000000A                        1974          DC    XL08'AABBCCDD0000000A'                    R1 result
0000258C  00000000 00000000                        1975          DC    XL16'00000000000000000000000000000010D'   V1 source
00002594  00000000 0000010D
                                                   1976
                                                   1977          VRR_I VCVB,9,0,0                                BAD SIGN - 0
000025A0                                           1978+         DS    0FD
000025A0                        000025A0           1979+         USING *,R5              base for test data and test routine
000025A0  000025D8                                 1980+T44      DC    A(X44)            address of test routine
000025A4  002C                                     1981+         DC    H'44'             test number
000025A6  00                                       1982+         DC    XL1'00'
000025A7  09                                       1983+         DC    HL1'9'            &M3
000025A8  00                                       1984+         DC    HL1'0'            &M4
000025A9  00                                       1985+         DC    HL1'0'            cc
000025AA  07                                       1986+         DC    HL1'7'            cc failed mask
000025AB  E5C3E5C2 40404040                        1987+         DC    CL8'VCVB'         instruction name
000025B4  00000010                                 1988+         DC    A(16)             result length
000025B8  000025FC                                 1989+REA44    DC    A(RE44)           result address
000025C0  00000000 00000000                        1990+         DS    FD                      gap
000025C8  00000000 00000000                        1991+R1O44    DS    FD                R1 OUTPUT
000025D0  00000000 00000000                        1992+         DS    FD                      gap
                                                   1993+*                                  INSTRUCTION UNDER TEST ROUTINE
000025D8                                           1994+X44      DS    0F
000025D8  E310 8EF0 0004                000010F0   1995+         LG    R1,R1FUDGE        pollute R1
000025DE  E710 5064 0006                00002604   1996+         VL    V1,RE44+8         get V1 source
000025E4  E611 0090 0050                           1997+         VCVB  R1,V1,9,0         test instruction
000025EA  E310 5028 0024                000025C8   1998+         STG   R1,R1O44          save
000025F0  B98D 0020                                1999+         EPSW  R2,R0             exptract psw
000025F4  5020 8EE4                     000010E4   2000+         ST    R2,CCPSW              to save CC
000025F8  07FB                                     2001+         BR    R11               return
000025FC                                           2002+RE44     DC    0F
000025FC                                           2003+         DROP  R5
000025FC  AABBCCDD 0000000A                        2004          DC    XL08'AABBCCDD0000000A'                    R1 result
00002604  00000000 00000000                        2005          DC    XL16'00000000000000000000000000000100'    V1 source
0000260C  00000000 00000100
                                                   2006
                                                   2007 * VCVB   m3=9 (p2=1, lb=0, cs=1)      m4=0 (iom=0, orc=0)
                                                   2008 *        cc=3 (overflow)
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   2009          VRR_I VCVB,9,0,3                                INT_MIN
00002618                                           2010+         DS    0FD
00002618                     00002618              2011+         USING *,R5              base for test data and test routine
00002618  00002650                                 2012+T45      DC    A(X45)            address of test routine
0000261C  002D                                     2013+         DC    H'45'             test number
0000261E  00                                       2014+         DC    XL1'00'
0000261F  09                                       2015+         DC    HL1'9'            &M3
00002620  00                                       2016+         DC    HL1'0'            &M4
00002621  03                                       2017+         DC    HL1'3'            cc
00002622  0E                                       2018+         DC    HL1'14'           cc failed mask
00002623  E5C3E5C2 40404040                        2019+         DC    CL8'VCVB'         instruction name
0000262C  00000010                                 2020+         DC    A(16)             result length
00002630  00002674                                 2021+REA45    DC    A(RE45)           result address
00002638  00000000 00000000                        2022+         DS    FD                      gap
00002640  00000000 00000000                        2023+R1O45    DS    FD                R1 OUTPUT
00002648  00000000 00000000                        2024+         DS    FD                      gap
                                                   2025+*                                  INSTRUCTION UNDER TEST ROUTINE
00002650                                           2026+X45      DS    0F
00002650  E310 8EF0 0004                000010F0   2027+         LG    R1,R1FUDGE        pollute R1
00002656  E710 5064 0006                0000267C   2028+         VL    V1,RE45+8         get V1 source
0000265C  E611 0090 0050                           2029+         VCVB  R1,V1,9,0         test instruction
00002662  E310 5028 0024                00002640   2030+         STG   R1,R1O45          save
00002668  B98D 0020                                2031+         EPSW  R2,R0             exptract psw
0000266C  5020 8EE4                     000010E4   2032+         ST    R2,CCPSW              to save CC
00002670  07FB                                     2033+         BR    R11               return
00002674                                           2034+RE45     DC    0F
00002674                                           2035+         DROP  R5
00002674  AABBCCDD 80000000                        2036          DC    XL08'AABBCCDD80000000'                    R1 result
0000267C  00000000 00000000                        2037          DC    XL16'0000000000000000000002147483648D'    V1 source
00002684  00000214 7483648D
                                                   2038
                                                   2039          VRR_I VCVB,9,0,3
00002690                                           2040+         DS    0FD
00002690                     00002690              2041+         USING *,R5              base for test data and test routine
00002690  000026C8                                 2042+T46      DC    A(X46)            address of test routine
00002694  002E                                     2043+         DC    H'46'             test number
00002696  00                                       2044+         DC    XL1'00'
00002697  09                                       2045+         DC    HL1'9'            &M3
00002698  00                                       2046+         DC    HL1'0'            &M4
00002699  03                                       2047+         DC    HL1'3'            cc
0000269A  0E                                       2048+         DC    HL1'14'           cc failed mask
0000269B  E5C3E5C2 40404040                        2049+         DC    CL8'VCVB'         instruction name
000026A4  00000010                                 2050+         DC    A(16)             result length
000026A8  000026EC                                 2051+REA46    DC    A(RE46)           result address
000026B0  00000000 00000000                        2052+         DS    FD                      gap
000026B8  00000000 00000000                        2053+R1O46    DS    FD                R1 OUTPUT
000026C0  00000000 00000000                        2054+         DS    FD                      gap
                                                   2055+*                                  INSTRUCTION UNDER TEST ROUTINE
000026C8                                           2056+X46      DS    0F
000026C8  E310 8EF0 0004                000010F0   2057+         LG    R1,R1FUDGE        pollute R1
000026CE  E710 5064 0006                000026F4   2058+         VL    V1,RE46+8         get V1 source
000026D4  E611 0090 0050                           2059+         VCVB  R1,V1,9,0         test instruction
000026DA  E310 5028 0024                000026B8   2060+         STG   R1,R1O46          save
000026E0  B98D 0020                                2061+         EPSW  R2,R0             exptract psw
000026E4  5020 8EE4                     000010E4   2062+         ST    R2,CCPSW              to save CC
000026E8  07FB                                     2063+         BR    R11               return
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000026EC                                           2064+RE46     DC    0F
000026EC                                           2065+         DROP  R5
000026EC  AABBCCDD DF8E1660                        2066          DC    XL08'AABBCCDDDF8E1660'                    R1 result
000026F4  00000000 00000000                        2067          DC    XL16'00000000000000000000012340565600C'   V1 source
000026FC  00001234 0565600C
                                                   2068
                                                   2069 * VCVB   m3=9 (p2=1, lb=0, cs=1)       m4=4 (iom=0, orc=1)
                                                   2070 *        cc=3 (overflow)
                                                   2071          VRR_I VCVB,9,4,3                              INT_MIN
00002708                                           2072+         DS    0FD
00002708                        00002708           2073+         USING *,R5              base for test data and test routine
00002708  00002740                                 2074+T47      DC    A(X47)            address of test routine
0000270C  002F                                     2075+         DC    H'47'             test number
0000270E  00                                       2076+         DC    XL1'00'
0000270F  09                                       2077+         DC    HL1'9'            &M3
00002710  04                                       2078+         DC    HL1'4'            &M4
00002711  03                                       2079+         DC    HL1'3'            cc
00002712  0E                                       2080+         DC    HL1'14'           cc failed mask
00002713  E5C3E5C2 40404040                        2081+         DC    CL8'VCVB'         instruction name
0000271C  00000010                                 2082+         DC    A(16)             result length
00002720  00002764                                 2083+REA47    DC    A(RE47)           result address
00002728  00000000 00000000                        2084+         DS    FD                      gap
00002730  00000000 00000000                        2085+R1O47    DS    FD                R1 OUTPUT
00002738  00000000 00000000                        2086+         DS    FD                      gap
                                                   2087+*                                  INSTRUCTION UNDER TEST ROUTINE
00002740                                           2088+X47      DS    0F
00002740  E310 8EF0 0004                000010F0   2089+         LG    R1,R1FUDGE        pollute R1
00002746  E710 5064 0006                0000276C   2090+         VL    V1,RE47+8         get V1 source
0000274C  E611 0094 0050                           2091+         VCVB  R1,V1,9,4         test instruction
00002752  E310 5028 0024                00002730   2092+         STG   R1,R1O47          save
00002758  B98D 0020                                2093+         EPSW  R2,R0             exptract psw
0000275C  5020 8EE4                     000010E4   2094+         ST    R2,CCPSW              to save CC
00002760  07FB                                     2095+         BR    R11               return
00002764                                           2096+RE47     DC    0F
00002764                                           2097+         DROP  R5
00002764  AABBCCDD 00000000                        2098          DC    XL08'AABBCCDD00000000'                    R1 result
0000276C  00000000 00000000                        2099          DC    XL16'00000000000000000000002147483648D'   V1 source
00002774  00000214 7483648D
                                                   2100
                                                   2101          VRR_I VCVB,9,4,3
00002780                                           2102+         DS    0FD
00002780                        00002780           2103+         USING *,R5              base for test data and test routine
00002780  000027B8                                 2104+T48      DC    A(X48)            address of test routine
00002784  0030                                     2105+         DC    H'48'             test number
00002786  00                                       2106+         DC    XL1'00'
00002787  09                                       2107+         DC    HL1'9'            &M3
00002788  04                                       2108+         DC    HL1'4'            &M4
00002789  03                                       2109+         DC    HL1'3'            cc
0000278A  0E                                       2110+         DC    HL1'14'           cc failed mask
0000278B  E5C3E5C2 40404040                        2111+         DC    CL8'VCVB'         instruction name
00002794  00000010                                 2112+         DC    A(16)             result length
00002798  000027DC                                 2113+REA48    DC    A(RE48)           result address
000027A0  00000000 00000000                        2114+         DS    FD                      gap
000027A8  00000000 00000000                        2115+R1O48    DS    FD                R1 OUTPUT
000027B0  00000000 00000000                        2116+         DS    FD                      gap
                                                   2117+*                                  INSTRUCTION UNDER TEST ROUTINE
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000027B8                                           2118+X48      DS    0F
000027B8  E310 8EF0 0004                 000010F0  2119+          LG    R1,R1FUDGE        pollute R1
000027BE  E710 5064 0006                 000027E4  2120+          VL    V1,RE48+8         get V1 source
000027C4  E611 0094 0050                           2121+          VCVB  R1,V1,9,4         test instruction
000027CA  E310 5028 0024                 000027A8  2122+          STG   R1,R1O48          save
000027D0  B98D 0020                                2123+          EPSW  R2,R0             exptract psw
000027D4  5020 8EE4                      000010E4  2124+          ST    R2,CCPSW              to save CC
000027D8  07FB                                     2125+          BR    R11               return
000027DC                                           2126+RE48      DC    0F
000027DC                                           2127+          DROP  R5
000027DC  AABBCCDD 00000000                        2128           DC    XL08'AABBCCDD00000000'                    R1 result
000027E4  00000000 00000000                        2129           DC    XL16'00000000000000000000012340565600C'   V1 source
000027EC  00001234 0565600C
                                                   2130
                                                   2131 * VCVB    m3=11 (p2=1, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                   2132 *         cc=0 (no overflow)
                                                   2133           VRR_I VCVB,11,0,0
000027F8                                           2134+          DS    0FD
000027F8                         000027F8          2135+          USING *,R5              base for test data and test routine
000027F8  00002830                                 2136+T49       DC    A(X49)            address of test routine
000027FC  0031                                     2137+          DC    H'49'             test number
000027FE  00                                       2138+          DC    XL1'00'
000027FF  0B                                       2139+          DC    HL1'11'           &M3
00002800  00                                       2140+          DC    HL1'0'            &M4
00002801  00                                       2141+          DC    HL1'0'            cc
00002802  07                                       2142+          DC    HL1'7'            cc failed mask
00002803  E5C3E5C2 40404040                        2143+          DC    CL8'VCVB'         instruction name
0000280C  00000010                                 2144+          DC    A(16)             result length
00002810  00002854                                 2145+REA49     DC    A(RE49)           result address
00002818  00000000 00000000                        2146+          DS    FD                      gap
00002820  00000000 00000000                        2147+R1O49     DS    FD                R1 OUTPUT
00002828  00000000 00000000                        2148+          DS    FD                      gap
                                                   2149+*                                  INSTRUCTION UNDER TEST ROUTINE
00002830                                           2150+X49       DS    0F
00002830  E310 8EF0 0004                 000010F0  2151+          LG    R1,R1FUDGE        pollute R1
00002836  E710 5064 0006                 0000285C  2152+          VL    V1,RE49+8         get V1 source
0000283C  E611 00B0 0050                           2153+          VCVB  R1,V1,11,0        test instruction
00002842  E310 5028 0024                 00002820  2154+          STG   R1,R1O49          save
00002848  B98D 0020                                2155+          EPSW  R2,R0             exptract psw
0000284C  5020 8EE4                      000010E4  2156+          ST    R2,CCPSW              to save CC
00002850  07FB                                     2157+          BR    R11               return
00002854                                           2158+RE49      DC    0F
00002854                                           2159+          DROP  R5
00002854  AABBCCDD 0000000A                        2160           DC    XL08'AABBCCDD0000000A'                    R1 result
0000285C  00000000 00000000                        2161           DC    XL16'00000000000000000000000000000010C'   V1 source
00002864  00000000 0000010C
                                                   2162
                                                   2163           VRR_I VCVB,11,0,0
00002870                                           2164+          DS    0FD
00002870                         00002870          2165+          USING *,R5              base for test data and test routine
00002870  000028A8                                 2166+T50       DC    A(X50)            address of test routine
00002874  0032                                     2167+          DC    H'50'             test number
00002876  00                                       2168+          DC    XL1'00'
00002877  0B                                       2169+          DC    HL1'11'           &M3
00002878  00                                       2170+          DC    HL1'0'            &M4
00002879  00                                       2171+          DC    HL1'0'            cc
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000287A  07                                       2172+         DC    HL1'7'            cc failed mask
0000287B  E5C3E5C2 40404040                        2173+         DC    CL8'VCVB'         instruction name
00002884  00000010                                 2174+         DC    A(16)             result length
00002888  000028CC                                 2175+REA50    DC    A(RE50)           result address
00002890  00000000 00000000                        2176+         DS    FD                      gap
00002898  00000000 00000000                        2177+R1O50    DS    FD                R1 OUTPUT
000028A0  00000000 00000000                        2178+         DS    FD                      gap
                                                   2179+*                                  INSTRUCTION UNDER TEST ROUTINE
000028A8                                           2180+X50      DS    0F
000028A8  E310 8EF0 0004                000010F0   2181+         LG    R1,R1FUDGE        pollute R1
000028AE  E710 5064 0006                000028D4   2182+         VL    V1,RE50+8         get V1 source
000028B4  E611 00B0 0050                           2183+         VCVB  R1,V1,11,0        test instruction
000028BA  E310 5028 0024                00002898   2184+         STG   R1,R1O50          save
000028C0  B98D 0020                                2185+         EPSW  R2,R0             exptract psw
000028C4  5020 8EE4                     000010E4   2186+         ST    R2,CCPSW              to save CC
000028C8  07FB                                     2187+         BR    R11               return
000028CC                                           2188+RE50     DC    0F
000028CC                                           2189+         DROP  R5
000028CC  AABBCCDD 0000000A                        2190          DC    XL08'AABBCCDD0000000A'                    R1 result
000028D4  00000000 00000000                        2191          DC    XL16'00000000000000000000000000000010D'   V1 source
000028DC  00000000 0000010D
                                                   2192
                                                   2193          VRR_I VCVB,11,0,0
000028E8                                           2194+         DS    0FD
000028E8                        000028E8           2195+         USING *,R5              base for test data and test routine
000028E8  00002920                                 2196+T51      DC    A(X51)            address of test routine
000028EC  0033                                     2197+         DC    H'51'             test number
000028EE  00                                       2198+         DC    XL1'00'
000028EF  0B                                       2199+         DC    HL1'11'           &M3
000028F0  00                                       2200+         DC    HL1'0'            &M4
000028F1  00                                       2201+         DC    HL1'0'            cc
000028F2  07                                       2202+         DC    HL1'7'            cc failed mask
000028F3  E5C3E5C2 40404040                        2203+         DC    CL8'VCVB'         instruction name
000028FC  00000010                                 2204+         DC    A(16)             result length
00002900  00002944                                 2205+REA51    DC    A(RE51)           result address
00002908  00000000 00000000                        2206+         DS    FD                      gap
00002910  00000000 00000000                        2207+R1O51    DS    FD                R1 OUTPUT
00002918  00000000 00000000                        2208+         DS    FD                      gap
                                                   2209+*                                  INSTRUCTION UNDER TEST ROUTINE
00002920                                           2210+X51      DS    0F
00002920  E310 8EF0 0004                000010F0   2211+         LG    R1,R1FUDGE        pollute R1
00002926  E710 5064 0006                0000294C   2212+         VL    V1,RE51+8         get V1 source
0000292C  E611 00B0 0050                           2213+         VCVB  R1,V1,11,0        test instruction
00002932  E310 5028 0024                00002910   2214+         STG   R1,R1O51          save
00002938  B98D 0020                                2215+         EPSW  R2,R0             exptract psw
0000293C  5020 8EE4                     000010E4   2216+         ST    R2,CCPSW              to save CC
00002940  07FB                                     2217+         BR    R11               return
00002944                                           2218+RE51     DC    0F
00002944                                           2219+         DROP  R5
00002944  AABBCCDD 0008A160                        2220          DC    XL08'AABBCCDD0008A160'                    R1 result
0000294C  00000000 00000000                        2221          DC    XL16'0000000000000000000000000565600C'    V1 source
00002954  00000000 0565600C
                                                   2222
                                                   2223          VRR_I VCVB,11,0,0
00002960                                           2224+         DS    0FD
00002960                        00002960           2225+         USING *,R5              base for test data and test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002960  00002998                                 2226+T52      DC    A(X52)            address of test routine
00002964  0034                                     2227+         DC    H'52'             test number
00002966  00                                       2228+         DC    XL1'00'
00002967  0B                                       2229+         DC    HL1'11'           &M3
00002968  00                                       2230+         DC    HL1'0'            &M4
00002969  00                                       2231+         DC    HL1'0'            cc
0000296A  07                                       2232+         DC    HL1'7'            cc failed mask
0000296B  E5C3E5C2 40404040                        2233+         DC    CL8'VCVB'         instruction name
00002974  00000010                                 2234+         DC    A(16)             result length
00002978  000029BC                                 2235+REA52    DC    A(RE52)           result address
00002980  00000000 00000000                        2236+         DS    FD                      gap
00002988  00000000 00000000                        2237+R1O52    DS    FD                R1 OUTPUT
00002990  00000000 00000000                        2238+         DS    FD                      gap
                                                   2239+*                                  INSTRUCTION UNDER TEST ROUTINE
00002998                                           2240+X52      DS    0F
00002998  E310 8EF0 0004                 000010F0  2241+         LG    R1,R1FUDGE        pollute R1
0000299E  E710 5064 0006                 000029C4  2242+         VL    V1,RE52+8         get V1 source
000029A4  E611 00B0 0050                           2243+         VCVB  R1,V1,11,0        test instruction
000029AA  E310 5028 0024                 00002988  2244+         STG   R1,R1O52          save
000029B0  B98D 0020                                2245+         EPSW  R2,R0             exptract psw
000029B4  5020 8EE4                      000010E4  2246+         ST    R2,CCPSW              to save CC
000029B8  07FB                                     2247+         BR    R11               return
000029BC                                           2248+RE52     DC    0F
000029BC                                           2249+         DROP  R5
000029BC  AABBCCDD 0008A160                        2250          DC    XL08'AABBCCDD0008A160'                    R1 result
000029C4  00000000 00000000                        2251          DC    XL16'000000000000000000000000565600D'     V1 source
000029CC  00000000 0565600D
                                                   2252
                                                   2253          VRR_I VCVB,11,0,0                               INT_MAX
000029D8                                           2254+         DS    0FD
000029D8                       000029D8            2255+         USING *,R5              base for test data and test routine
000029D8  00002A10                                 2256+T53      DC    A(X53)            address of test routine
000029DC  0035                                     2257+         DC    H'53'             test number
000029DE  00                                       2258+         DC    XL1'00'
000029DF  0B                                       2259+         DC    HL1'11'           &M3
000029E0  00                                       2260+         DC    HL1'0'            &M4
000029E1  00                                       2261+         DC    HL1'0'            cc
000029E2  07                                       2262+         DC    HL1'7'            cc failed mask
000029E3  E5C3E5C2 40404040                        2263+         DC    CL8'VCVB'         instruction name
000029EC  00000010                                 2264+         DC    A(16)             result length
000029F0  00002A34                                 2265+REA53    DC    A(RE53)           result address
000029F8  00000000 00000000                        2266+         DS    FD                      gap
00002A00  00000000 00000000                        2267+R1O53    DS    FD                R1 OUTPUT
00002A08  00000000 00000000                        2268+         DS    FD                      gap
                                                   2269+*                                  INSTRUCTION UNDER TEST ROUTINE
00002A10                                           2270+X53      DS    0F
00002A10  E310 8EF0 0004                 000010F0  2271+         LG    R1,R1FUDGE        pollute R1
00002A16  E710 5064 0006                 00002A3C  2272+         VL    V1,RE53+8         get V1 source
00002A1C  E611 00B0 0050                           2273+         VCVB  R1,V1,11,0        test instruction
00002A22  E310 5028 0024                 00002A00  2274+         STG   R1,R1O53          save
00002A28  B98D 0020                                2275+         EPSW  R2,R0             exptract psw
00002A2C  5020 8EE4                      000010E4  2276+         ST    R2,CCPSW              to save CC
00002A30  07FB                                     2277+         BR    R11               return
00002A34                                           2278+RE53     DC    0F
00002A34                                           2279+         DROP  R5
00002A34  AABBCCDD 7FFFFFFF                        2280          DC    XL08'AABBCCDD7FFFFFFF'                    R1 result
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002A3C  00000000 00000000                        2281          DC    XL16'00000000000000000000002147483647C'   V1 source
00002A44  00000214 7483647C
                                                   2282
                                                   2283          VRR_I VCVB,11,0,0                               UINT_MAX
00002A50                                           2284+         DS    0FD
00002A50                      00002A50             2285+         USING *,R5              base for test data and test routine
00002A50  00002A88                                 2286+T54      DC    A(X54)            address of test routine
00002A54  0036                                     2287+         DC    H'54'             test number
00002A56  00                                       2288+         DC    XL1'00'
00002A57  0B                                       2289+         DC    HL1'11'           &M3
00002A58  00                                       2290+         DC    HL1'0'            &M4
00002A59  00                                       2291+         DC    HL1'0'            cc
00002A5A  07                                       2292+         DC    HL1'7'            cc failed mask
00002A5B  E5C3E5C2 40404040                        2293+         DC    CL8'VCVB'         instruction name
00002A64  00000010                                 2294+         DC    A(16)             result length
00002A68  00002AAC                                 2295+REA54    DC    A(RE54)           result address
00002A70  00000000 00000000                        2296+         DS    FD                      gap
00002A78  00000000 00000000                        2297+R1O54    DS    FD                R1 OUTPUT
00002A80  00000000 00000000                        2298+         DS    FD                      gap
                                                   2299+*                                  INSTRUCTION UNDER TEST ROUTINE
00002A88                                           2300+X54      DS    0F
00002A88  E310 8EF0 0004                000010F0   2301+         LG    R1,R1FUDGE        pollute R1
00002A8E  E710 5064 0006                00002AB4   2302+         VL    V1,RE54+8         get V1 source
00002A94  E611 00B0 0050                           2303+         VCVB  R1,V1,11,0        test instruction
00002A9A  E310 5028 0024                00002A78   2304+         STG   R1,R1O54          save
00002AA0  B98D 0020                                2305+         EPSW  R2,R0             exptract psw
00002AA4  5020 8EE4                     000010E4   2306+         ST    R2,CCPSW                to save CC
00002AA8  07FB                                     2307+         BR    R11               return
00002AAC                                           2308+RE54     DC    0F
00002AAC                                           2309+         DROP  R5
00002AAC  AABBCCDD FFFFFFFF                        2310          DC    XL08'AABBCCDDFFFFFFFF'                    R1 result
00002AB4  00000000 00000000                        2311          DC    XL16'00000000000000000000004294967295C'   V1 source
00002ABC  00000429 4967295C
                                                   2312
                                                   2313          VRR_I VCVB,11,0,0                                INT_MIN
00002AC8                                           2314+         DS    0FD
00002AC8                      00002AC8             2315+         USING *,R5              base for test data and test routine
00002AC8  00002B00                                 2316+T55      DC    A(X55)            address of test routine
00002ACC  0037                                     2317+         DC    H'55'             test number
00002ACE  00                                       2318+         DC    XL1'00'
00002ACF  0B                                       2319+         DC    HL1'11'           &M3
00002AD0  00                                       2320+         DC    HL1'0'            &M4
00002AD1  00                                       2321+         DC    HL1'0'            cc
00002AD2  07                                       2322+         DC    HL1'7'            cc failed mask
00002AD3  E5C3E5C2 40404040                        2323+         DC    CL8'VCVB'         instruction name
00002ADC  00000010                                 2324+         DC    A(16)             result length
00002AE0  00002B24                                 2325+REA55    DC    A(RE55)           result address
00002AE8  00000000 00000000                        2326+         DS    FD                      gap
00002AF0  00000000 00000000                        2327+R1O55    DS    FD                R1 OUTPUT
00002AF8  00000000 00000000                        2328+         DS    FD                      gap
                                                   2329+*                                  INSTRUCTION UNDER TEST ROUTINE
00002B00                                           2330+X55      DS    0F
00002B00  E310 8EF0 0004                000010F0   2331+         LG    R1,R1FUDGE        pollute R1
00002B06  E710 5064 0006                00002B2C   2332+         VL    V1,RE55+8         get V1 source
00002B0C  E611 00B0 0050                           2333+         VCVB  R1,V1,11,0        test instruction
00002B12  E310 5028 0024                00002AF0   2334+         STG   R1,R1O55          save
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002B18  B98D 0020                               2335+         EPSW  R2,R0              exptract psw
00002B1C  5020 8EE4                     000010E4  2336+         ST    R2,CCPSW              to save CC
00002B20  07FB                                    2337+         BR    R11               return
00002B24                                          2338+RE55     DC    0F
00002B24                                          2339+         DROP  R5
00002B24  AABBCCDD 80000000                       2340          DC    XL08'AABBCCDD80000000'                    R1 result
00002B2C  00000000 00000000                       2341          DC    XL16'00000000000000000000002147483648D'   V1 source
00002B34  00000214 7483648D
                                                  2342
                                                  2343          VRR_I VCVB,11,0,0                               BAD SIGN - 0
00002B40                                          2344+         DS    0FD
00002B40                      00002B40            2345+         USING *,R5              base for test data and test routine
00002B40  00002B78                                2346+T56      DC    A(X56)            address of test routine
00002B44  0038                                    2347+         DC    H'56'             test number
00002B46  00                                      2348+         DC    XL1'00'
00002B47  0B                                      2349+         DC    HL1'11'           &M3
00002B48  00                                      2350+         DC    HL1'0'            &M4
00002B49  00                                      2351+         DC    HL1'0'            cc
00002B4A  07                                      2352+         DC    HL1'7'            cc failed mask
00002B4B  E5C3E5C2 40404040                       2353+         DC    CL8'VCVB'         instruction name
00002B54  00000010                                2354+         DC    A(16)             result length
00002B58  00002B9C                                2355+REA56    DC    A(RE56)           result address
00002B60  00000000 00000000                       2356+         DS    FD                      gap
00002B68  00000000 00000000                       2357+R1O56    DS    FD                R1 OUTPUT
00002B70  00000000 00000000                       2358+         DS    FD                      gap
                                                  2359+*                                  INSTRUCTION UNDER TEST ROUTINE
00002B78                                          2360+X56      DS    0F
00002B78  E310 8EF0 0004                000010F0  2361+         LG    R1,R1FUDGE        pollute R1
00002B7E  E710 5064 0006                00002BA4  2362+         VL    V1,RE56+8         get V1 source
00002B84  E611 00B0 0050                          2363+         VCVB  R1,V1,11,0        test instruction
00002B8A  E310 5028 0024                00002B68  2364+         STG   R1,R1O56          save
00002B90  B98D 0020                               2365+         EPSW  R2,R0             exptract psw
00002B94  5020 8EE4                     000010E4  2366+         ST    R2,CCPSW              to save CC
00002B98  07FB                                    2367+         BR    R11               return
00002B9C                                          2368+RE56     DC    0F
00002B9C                                          2369+         DROP  R5
00002B9C  AABBCCDD 0000000A                       2370          DC    XL08'AABBCCDD0000000A'                    R1 result
00002BA4  00000000 00000000                       2371          DC    XL16'00000000000000000000000000000100'    V1 source
00002BAC  00000000 00000100
                                                  2372
                                                  2373 * VCVB   m3=11 (p2=1, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                  2374 *        cc=3 (overflow)
                                                  2375          VRR_I VCVB,11,0,3                               UINT_MAX+5
00002BB8                                          2376+         DS    0FD
00002BB8                      00002BB8            2377+         USING *,R5              base for test data and test routine
00002BB8  00002BF0                                2378+T57      DC    A(X57)            address of test routine
00002BBC  0039                                    2379+         DC    H'57'             test number
00002BBE  00                                      2380+         DC    XL1'00'
00002BBF  0B                                      2381+         DC    HL1'11'           &M3
00002BC0  00                                      2382+         DC    HL1'0'            &M4
00002BC1  03                                      2383+         DC    HL1'3'            cc
00002BC2  0E                                      2384+         DC    HL1'14'           cc failed mask
00002BC3  E5C3E5C2 40404040                       2385+         DC    CL8'VCVB'         instruction name
00002BCC  00000010                                2386+         DC    A(16)             result length
00002BD0  00002C14                                2387+REA57    DC    A(RE57)           result address
00002BD8  00000000 00000000                       2388+         DS    FD                      gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002BE0  00000000 00000000                        2389+R1O57    DS    FD                R1 OUTPUT
00002BE8  00000000 00000000                        2390+         DS    FD                      gap
                                                   2391+*                                INSTRUCTION UNDER TEST ROUTINE
00002BF0                                           2392+X57      DS    0F
00002BF0  E310 8EF0 0004                 000010F0  2393+         LG    R1,R1FUDGE        pollute R1
00002BF6  E710 5064 0006                 00002C1C  2394+         VL    V1,RE57+8         get V1 source
00002BFC  E611 00B0 0050                           2395+         VCVB  R1,V1,11,0        test instruction
00002C02  E310 5028 0024                 00002BE0  2396+         STG   R1,R1O57          save
00002C08  B98D 0020                                2397+         EPSW  R2,R0             exptract psw
00002C0C  5020 8EE4                      000010E4  2398+         ST    R2,CCPSW              to save CC
00002C10  07FB                                     2399+         BR    R11               return
00002C14                                           2400+RE57     DC    0F
00002C14                                           2401+         DROP  R5
00002C14  AABBCCDD 00000004                        2402          DC    XL08'AABBCCDD00000004'                    R1 result
00002C1C  00000000 00000000                        2403          DC    XL16'00000000000000000000004294967300C'    V1 source
00002C24  00000429 4967300C
                                                   2404
                                                   2405          VRR_I VCVB,11,0,3                               -(UINT_MAX+5)
00002C30                                           2406+         DS    0FD
00002C30                         00002C30          2407+         USING *,R5              base for test data and test routine
00002C30  00002C68                                 2408+T58      DC    A(X58)            address of test routine
00002C34  003A                                     2409+         DC    H'58'             test number
00002C36  00                                       2410+         DC    XL1'00'
00002C37  0B                                       2411+         DC    HL1'11'           &M3
00002C38  00                                       2412+         DC    HL1'0'            &M4
00002C39  03                                       2413+         DC    HL1'3'            cc
00002C3A  0E                                       2414+         DC    HL1'14'           cc failed mask
00002C3B  E5C3E5C2 40404040                        2415+         DC    CL8'VCVB'         instruction name
00002C44  00000010                                 2416+         DC    A(16)             result length
00002C48  00002C8C                                 2417+REA58    DC    A(RE58)           result address
00002C50  00000000 00000000                        2418+         DS    FD                      gap
00002C58  00000000 00000000                        2419+R1O58    DS    FD                R1 OUTPUT
00002C60  00000000 00000000                        2420+         DS    FD                      gap
                                                   2421+*                                INSTRUCTION UNDER TEST ROUTINE
00002C68                                           2422+X58      DS    0F
00002C68  E310 8EF0 0004                 000010F0  2423+         LG    R1,R1FUDGE        pollute R1
00002C6E  E710 5064 0006                 00002C94  2424+         VL    V1,RE58+8         get V1 source
00002C74  E611 00B0 0050                           2425+         VCVB  R1,V1,11,0        test instruction
00002C7A  E310 5028 0024                 00002C58  2426+         STG   R1,R1O58          save
00002C80  B98D 0020                                2427+         EPSW  R2,R0             exptract psw
00002C84  5020 8EE4                      000010E4  2428+         ST    R2,CCPSW              to save CC
00002C88  07FB                                     2429+         BR    R11               return
00002C8C                                           2430+RE58     DC    0F
00002C8C                                           2431+         DROP  R5
00002C8C  AABBCCDD 00000004                        2432          DC    XL08'AABBCCDD00000004'                    R1 result
00002C94  00000000 00000000                        2433          DC    XL16'00000000000000000000004294967300D'     V1 source
00002C9C  00000429 4967300D
                                                   2434
                                                   2435          VRR_I VCVB,11,0,3
00002CA8                                           2436+         DS    0FD
00002CA8                         00002CA8          2437+         USING *,R5              base for test data and test routine
00002CA8  00002CE0                                 2438+T59      DC    A(X59)            address of test routine
00002CAC  003B                                     2439+         DC    H'59'             test number
00002CAE  00                                       2440+         DC    XL1'00'
00002CAF  0B                                       2441+         DC    HL1'11'           &M3
00002CB0  00                                       2442+         DC    HL1'0'            &M4
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002CB1  03                                      2443+         DC    HL1'3'            cc
00002CB2  0E                                      2444+         DC    HL1'14'           cc failed mask
00002CB3  E5C3E5C2 40404040                       2445+         DC    CL8'VCVB'         instruction name
00002CBC  00000010                                2446+         DC    A(16)             result length
00002CC0  00002D04                                2447+REA59    DC    A(RE59)           result address
00002CC8  00000000 00000000                       2448+         DS    FD                      gap
00002CD0  00000000 00000000                       2449+R1O59    DS    FD                R1 OUTPUT
00002CD8  00000000 00000000                       2450+         DS    FD                      gap
                                                  2451+*                                  INSTRUCTION UNDER TEST ROUTINE
00002CE0                                          2452+X59      DS    0F
00002CE0  E310 8EF0 0004                000010F0  2453+         LG    R1,R1FUDGE        pollute R1
00002CE6  E710 5064 0006                00002D0C  2454+         VL    V1,RE59+8         get V1 source
00002CEC  E611 00B0 0050                          2455+         VCVB  R1,V1,11,0        test instruction
00002CF2  E310 5028 0024                00002CD0  2456+         STG   R1,R1O59          save
00002CF8  B98D 0020                               2457+         EPSW  R2,R0             exptract psw
00002CFC  5020 8EE4                     000010E4  2458+         ST    R2,CCPSW              to save CC
00002D00  07FB                                    2459+         BR    R11               return
00002D04                                          2460+RE59     DC    0F
00002D04                                          2461+         DROP  R5
00002D04  AABBCCDD DF8E1660                       2462          DC    XL08'AABBCCDDDF8E1660'                    R1 result
00002D0C  00000000 00000000                       2463          DC    XL16'00000000000000000000012340565600C'   V1 source
00002D14  00001234 0565600C
                                                  2464
                                                  2465 * VCVB   m3=11 (p2=1, lb=1, cs=1)       m4=4 (iom=0, orc=1)
                                                  2466 *        cc=3 (overflow)
                                                  2467          VRR_I VCVB,11,4,3                                 UINT_MAX+5
00002D20                                          2468+         DS    0FD
00002D20                        00002D20          2469+         USING *,R5              base for test data and test routine
00002D20  00002D58                                2470+T60      DC    A(X60)            address of test routine
00002D24  003C                                    2471+         DC    H'60'             test number
00002D26  00                                      2472+         DC    XL1'00'
00002D27  0B                                      2473+         DC    HL1'11'           &M3
00002D28  04                                      2474+         DC    HL1'4'            &M4
00002D29  03                                      2475+         DC    HL1'3'            cc
00002D2A  0E                                      2476+         DC    HL1'14'           cc failed mask
00002D2B  E5C3E5C2 40404040                       2477+         DC    CL8'VCVB'         instruction name
00002D34  00000010                                2478+         DC    A(16)             result length
00002D38  00002D7C                                2479+REA60    DC    A(RE60)           result address
00002D40  00000000 00000000                       2480+         DS    FD                      gap
00002D48  00000000 00000000                       2481+R1O60    DS    FD                R1 OUTPUT
00002D50  00000000 00000000                       2482+         DS    FD                      gap
                                                  2483+*                                  INSTRUCTION UNDER TEST ROUTINE
00002D58                                          2484+X60      DS    0F
00002D58  E310 8EF0 0004                000010F0  2485+         LG    R1,R1FUDGE        pollute R1
00002D5E  E710 5064 0006                00002D84  2486+         VL    V1,RE60+8         get V1 source
00002D64  E611 00B4 0050                          2487+         VCVB  R1,V1,11,4        test instruction
00002D6A  E310 5028 0024                00002D48  2488+         STG   R1,R1O60          save
00002D70  B98D 0020                               2489+         EPSW  R2,R0             exptract psw
00002D74  5020 8EE4                     000010E4  2490+         ST    R2,CCPSW              to save CC
00002D78  07FB                                    2491+         BR    R11               return
00002D7C                                          2492+RE60     DC    0F
00002D7C                                          2493+         DROP  R5
00002D7C  AABBCCDD 00000000                       2494          DC    XL08'AABBCCDD00000000'                    R1 result
00002D84  00000000 00000000                       2495          DC    XL16'00000000000000000000004294967300C'   V1 source
00002D8C  00000429 4967300C
                                                  2496
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   2497          VRR_I VCVB,11,4,3                          -(UINT_MAX+5)
00002D98                                           2498+         DS    0FD
00002D98                     00002D98              2499+         USING *,R5              base for test data and test routine
00002D98  00002DD0                                 2500+T61      DC    A(X61)            address of test routine
00002D9C  003D                                     2501+         DC    H'61'             test number
00002D9E  00                                       2502+         DC    XL1'00'
00002D9F  0B                                       2503+         DC    HL1'11'           &M3
00002DA0  04                                       2504+         DC    HL1'4'            &M4
00002DA1  03                                       2505+         DC    HL1'3'            cc
00002DA2  0E                                       2506+         DC    HL1'14'           cc failed mask
00002DA3  E5C3E5C2 40404040                        2507+         DC    CL8'VCVB'         instruction name
00002DAC  00000010                                 2508+         DC    A(16)             result length
00002DB0  00002DF4                                 2509+REA61    DC    A(RE61)           result address
00002DB8  00000000 00000000                        2510+         DS    FD                      gap
00002DC0  00000000 00000000                        2511+R1O61    DS    FD                R1 OUTPUT
00002DC8  00000000 00000000                        2512+         DS    FD                      gap
                                                   2513+*                                  INSTRUCTION UNDER TEST ROUTINE
00002DD0                                           2514+X61      DS    0F
00002DD0  E310 8EF0 0004                000010F0   2515+         LG    R1,R1FUDGE        pollute R1
00002DD6  E710 5064 0006                00002DFC   2516+         VL    V1,RE61+8         get V1 source
00002DDC  E611 00B4 0050                           2517+         VCVB  R1,V1,11,4        test instruction
00002DE2  E310 5028 0024                00002DC0   2518+         STG   R1,R1O61          save
00002DE8  B98D 0020                                2519+         EPSW  R2,R0             exptract psw
00002DEC  5020 8EE4                     000010E4   2520+         ST    R2,CCPSW              to save CC
00002DF0  07FB                                     2521+         BR    R11               return
00002DF4                                           2522+RE61     DC    0F
00002DF4                                           2523+         DROP  R5
00002DF4  AABBCCDD 00000000                        2524          DC    XL08'AABBCCDD00000000'                  R1 result
00002DFC  00000000 00000000                        2525          DC    XL16'00000000000000000000004294967300D'  V1 source
00002E04  00000429 4967300D
                                                   2526
                                                   2527          VRR_I VCVB,11,4,3
00002E10                                           2528+         DS    0FD
00002E10                     00002E10              2529+         USING *,R5              base for test data and test routine
00002E10  00002E48                                 2530+T62      DC    A(X62)            address of test routine
00002E14  003E                                     2531+         DC    H'62'             test number
00002E16  00                                       2532+         DC    XL1'00'
00002E17  0B                                       2533+         DC    HL1'11'           &M3
00002E18  04                                       2534+         DC    HL1'4'            &M4
00002E19  03                                       2535+         DC    HL1'3'            cc
00002E1A  0E                                       2536+         DC    HL1'14'           cc failed mask
00002E1B  E5C3E5C2 40404040                        2537+         DC    CL8'VCVB'         instruction name
00002E24  00000010                                 2538+         DC    A(16)             result length
00002E28  00002E6C                                 2539+REA62    DC    A(RE62)           result address
00002E30  00000000 00000000                        2540+         DS    FD                      gap
00002E38  00000000 00000000                        2541+R1O62    DS    FD                R1 OUTPUT
00002E40  00000000 00000000                        2542+         DS    FD                      gap
                                                   2543+*                                  INSTRUCTION UNDER TEST ROUTINE
00002E48                                           2544+X62      DS    0F
00002E48  E310 8EF0 0004                000010F0   2545+         LG    R1,R1FUDGE        pollute R1
00002E4E  E710 5064 0006                00002E74   2546+         VL    V1,RE62+8         get V1 source
00002E54  E611 00B4 0050                           2547+         VCVB  R1,V1,11,4        test instruction
00002E5A  E310 5028 0024                00002E38   2548+         STG   R1,R1O62          save
00002E60  B98D 0020                                2549+         EPSW  R2,R0             exptract psw
00002E64  5020 8EE4                     000010E4   2550+         ST    R2,CCPSW              to save CC
00002E68  07FB                                     2551+         BR    R11               return
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002E6C                                           2552+RE62     DC    0F
00002E6C                                           2553+         DROP  R5
00002E6C  AABBCCDD 00000000                        2554          DC    XL08'AABBCCDD00000000'                    R1 result
00002E74  00000000 00000000                        2555          DC    XL16'00000000000000000000012340565600C'   V1 sourc
00002E7C  00001234 0565600C
                                                   2556
                                                   2557
                                                   2558 *-----------------------------------------------------------------
                                                   2559 * VCVBG   - VECTOR CONVERT TO BINARY  (64)
                                                   2560 *-----------------------------------------------------------------
                                                   2561 * VCVBG  m3=1 (p2=0, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                   2562 *        cc=0 (no overflow)
                                                   2563          VRR_I VCVBG,1,0,0
00002E88                                           2564+         DS    0FD
00002E88                      00002E88             2565+         USING *,R5              base for test data and test routine
00002E88  00002EC0                                 2566+T63      DC    A(X63)            address of test routine
00002E8C  003F                                     2567+         DC    H'63'             test number
00002E8E  00                                       2568+         DC    XL1'00'
00002E8F  01                                       2569+         DC    HL1'1'            &M3
00002E90  00                                       2570+         DC    HL1'0'            &M4
00002E91  00                                       2571+         DC    HL1'0'            cc
00002E92  07                                       2572+         DC    HL1'7'            cc failed mask
00002E93  E5C3E5C2 C7404040                        2573+         DC    CL8'VCVBG'        instruction name
00002E9C  00000010                                 2574+         DC    A(16)             result length
00002EA0  00002EE4                                 2575+REA63    DC    A(RE63)           result address
00002EA8  00000000 00000000                        2576+         DS    FD                      gap
00002EB0  00000000 00000000                        2577+R1O63    DS    FD                R1 OUTPUT
00002EB8  00000000 00000000                        2578+         DS    FD                      gap
                                                   2579+*                                  INSTRUCTION UNDER TEST ROUTINE
00002EC0                                           2580+X63      DS    0F
00002EC0  E310 8EF0 0004                000010F0   2581+         LG    R1,R1FUDGE        pollute R1
00002EC6  E710 5064 0006                00002EEC   2582+         VL    V1,RE63+8         get V1 source
00002ECC  E611 0010 0052                           2583+         VCVBG R1,V1,1,0         test instruction
00002ED2  E310 5028 0024                00002EB0   2584+         STG   R1,R1O63          save
00002ED8  B98D 0020                                2585+         EPSW  R2,R0             exptract psw
00002EDC  5020 8EE4                     000010E4   2586+         ST    R2,CCPSW              to save CC
00002EE0  07FB                                     2587+         BR    R11               return
00002EE4                                           2588+RE63     DC    0F
00002EE4                                           2589+         DROP  R5
00002EE4  00000000 00000000                        2590          DC    XL08'0000000000000000'                    R1 result
00002EEC  00000000 00000000                        2591          DC    XL16'00000000000000000000000000000000C'   V1 source
00002EF4  00000000 0000000C
                                                   2592
                                                   2593          VRR_I VCVBG,1,0,0                               Neg Zero
00002F00                                           2594+         DS    0FD
00002F00                      00002F00             2595+         USING *,R5              base for test data and test routine
00002F00  00002F38                                 2596+T64      DC    A(X64)            address of test routine
00002F04  0040                                     2597+         DC    H'64'             test number
00002F06  00                                       2598+         DC    XL1'00'
00002F07  01                                       2599+         DC    HL1'1'            &M3
00002F08  00                                       2600+         DC    HL1'0'            &M4
00002F09  00                                       2601+         DC    HL1'0'            cc
00002F0A  07                                       2602+         DC    HL1'7'            cc failed mask
00002F0B  E5C3E5C2 C7404040                        2603+         DC    CL8'VCVBG'        instruction name
00002F14  00000010                                 2604+         DC    A(16)             result length
00002F18  00002F5C                                 2605+REA64    DC    A(RE64)           result address
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002F20  00000000 00000000                        2606+         DS    FD                    gap
00002F28  00000000 00000000                        2607+R1O64    DS    FD                R1 OUTPUT
00002F30  00000000 00000000                        2608+         DS    FD                    gap
                                                   2609+*                              INSTRUCTION UNDER TEST ROUTINE
00002F38                                           2610+X64      DS    0F
00002F38  E310 8EF0 0004                 000010F0  2611+         LG    R1,R1FUDGE        pollute R1
00002F3E  E710 5064 0006                 00002F64  2612+         VL    V1,RE64+8         get V1 source
00002F44  E611 0010 0052                           2613+         VCVBG R1,V1,1,0         test instruction
00002F4A  E310 5028 0024                 00002F28  2614+         STG   R1,R1O64          save
00002F50  B98D 0020                                2615+         EPSW  R2,R0             exptract psw
00002F54  5020 8EE4                      000010E4  2616+         ST    R2,CCPSW              to save CC
00002F58  07FB                                     2617+         BR    R11               return
00002F5C                                           2618+RE64     DC    0F
00002F5C                                           2619+         DROP  R5
00002F5C  00000000 00000000                        2620          DC    XL08'0000000000000000'                  R1 result
00002F64  00000000 00000000                        2621          DC    XL16'00000000000000000000000000000000D'  V1 source
00002F6C  00000000 0000000D
                                                   2622
                                                   2623          VRR_I VCVBG,1,0,0
00002F78                                           2624+         DS    0FD
00002F78                         00002F78          2625+         USING *,R5              base for test data and test routine
00002F78  00002FB0                                 2626+T65      DC    A(X65)            address of test routine
00002F7C  0041                                     2627+         DC    H'65'             test number
00002F7E  00                                       2628+         DC    XL1'00'
00002F7F  01                                       2629+         DC    HL1'1'            &M3
00002F80  00                                       2630+         DC    HL1'0'            &M4
00002F81  00                                       2631+         DC    HL1'0'            cc
00002F82  07                                       2632+         DC    HL1'7'            cc failed mask
00002F83  E5C3E5C2 C7404040                        2633+         DC    CL8'VCVBG'        instruction name
00002F8C  00000010                                 2634+         DC    A(16)             result length
00002F90  00002FD4                                 2635+REA65    DC    A(RE65)           result address
00002F98  00000000 00000000                        2636+         DS    FD                    gap
00002FA0  00000000 00000000                        2637+R1O65    DS    FD                R1 OUTPUT
00002FA8  00000000 00000000                        2638+         DS    FD                    gap
                                                   2639+*                              INSTRUCTION UNDER TEST ROUTINE
00002FB0                                           2640+X65      DS    0F
00002FB0  E310 8EF0 0004                 000010F0  2641+         LG    R1,R1FUDGE        pollute R1
00002FB6  E710 5064 0006                 00002FDC  2642+         VL    V1,RE65+8         get V1 source
00002FBC  E611 0010 0052                           2643+         VCVBG R1,V1,1,0         test instruction
00002FC2  E310 5028 0024                 00002FA0  2644+         STG   R1,R1O65          save
00002FC8  B98D 0020                                2645+         EPSW  R2,R0             exptract psw
00002FCC  5020 8EE4                      000010E4  2646+         ST    R2,CCPSW              to save CC
00002FD0  07FB                                     2647+         BR    R11               return
00002FD4                                           2648+RE65     DC    0F
00002FD4                                           2649+         DROP  R5
00002FD4  00000000 0000000A                        2650          DC    XL08'000000000000000A'                  R1 result
00002FDC  00000000 00000000                        2651          DC    XL16'00000000000000000000000000000010C'  V1 source
00002FE4  00000000 0000010C
                                                   2652
                                                   2653          VRR_I VCVBG,1,0,0
00002FF0                                           2654+         DS    0FD
00002FF0                         00002FF0          2655+         USING *,R5              base for test data and test routine
00002FF0  00003028                                 2656+T66      DC    A(X66)            address of test routine
00002FF4  0042                                     2657+         DC    H'66'             test number
00002FF6  00                                       2658+         DC    XL1'00'
00002FF7  01                                       2659+         DC    HL1'1'            &M3
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00002FF8  00                                      2660+         DC    HL1'0'            &M4
00002FF9  00                                      2661+         DC    HL1'0'            cc
00002FFA  07                                      2662+         DC    HL1'7'            cc failed mask
00002FFB  E5C3E5C2 C7404040                       2663+         DC    CL8'VCVBG'        instruction name
00003004  00000010                                2664+         DC    A(16)             result length
00003008  0000304C                                2665+REA66    DC    A(RE66)           result address
00003010  00000000 00000000                       2666+         DS    FD                      gap
00003018  00000000 00000000                       2667+R1O66    DS    FD                R1 OUTPUT
00003020  00000000 00000000                       2668+         DS    FD                      gap
                                                  2669+*                                  INSTRUCTION UNDER TEST ROUTINE
00003028                                          2670+X66      DS    0F
00003028  E310 8EF0 0004                000010F0  2671+         LG    R1,R1FUDGE        pollute R1
0000302E  E710 5064 0006                00003054  2672+         VL    V1,RE66+8         get V1 source
00003034  E611 0010 0052                          2673+         VCVBG R1,V1,1,0         test instruction
0000303A  E310 5028 0024                00003018  2674+         STG   R1,R1O66          save
00003040  B98D 0020                               2675+         EPSW  R2,R0             exptract psw
00003044  5020 8EE4                     000010E4  2676+         ST    R2,CCPSW              to save CC
00003048  07FB                                    2677+         BR    R11               return
0000304C                                          2678+RE66     DC    0F
0000304C                                          2679+         DROP  R5
0000304C  FFFFFFFF FFFFFFF6                       2680          DC    XL08'FFFFFFFFFFFFFFF6'                    R1 result
00003054  00000000 00000000                       2681          DC    XL16'00000000000000000000000000000010D'   V1 source
0000305C  00000000 0000010D
                                                  2682
                                                  2683          VRR_I VCVBG,1,0,0                               + SIGN - A
00003068                                          2684+         DS    0FD
00003068                        00003068          2685+         USING *,R5              base for test data and test routine
00003068  000030A0                                2686+T67      DC    A(X67)            address of test routine
0000306C  0043                                    2687+         DC    H'67'             test number
0000306E  00                                      2688+         DC    XL1'00'
0000306F  01                                      2689+         DC    HL1'1'            &M3
00003070  00                                      2690+         DC    HL1'0'            &M4
00003071  00                                      2691+         DC    HL1'0'            cc
00003072  07                                      2692+         DC    HL1'7'            cc failed mask
00003073  E5C3E5C2 C7404040                       2693+         DC    CL8'VCVBG'        instruction name
0000307C  00000010                                2694+         DC    A(16)             result length
00003080  000030C4                                2695+REA67    DC    A(RE67)           result address
00003088  00000000 00000000                       2696+         DS    FD                      gap
00003090  00000000 00000000                       2697+R1O67    DS    FD                R1 OUTPUT
00003098  00000000 00000000                       2698+         DS    FD                      gap
                                                  2699+*                                  INSTRUCTION UNDER TEST ROUTINE
000030A0                                          2700+X67      DS    0F
000030A0  E310 8EF0 0004                000010F0  2701+         LG    R1,R1FUDGE        pollute R1
000030A6  E710 5064 0006                000030CC  2702+         VL    V1,RE67+8         get V1 source
000030AC  E611 0010 0052                          2703+         VCVBG R1,V1,1,0         test instruction
000030B2  E310 5028 0024                00003090  2704+         STG   R1,R1O67          save
000030B8  B98D 0020                               2705+         EPSW  R2,R0             exptract psw
000030BC  5020 8EE4                     000010E4  2706+         ST    R2,CCPSW              to save CC
000030C0  07FB                                    2707+         BR    R11               return
000030C4                                          2708+RE67     DC    0F
000030C4                                          2709+         DROP  R5
000030C4  00000000 000000FF                       2710          DC    XL08'00000000000000FF'                    R1 result
000030CC  00000000 00000000                       2711          DC    XL16'00000000000000000000000000000255A'   V1 source
000030D4  00000000 0000255A
                                                  2712
                                                  2713          VRR_I VCVBG,1,0,0                               - SIGN - B
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000030E0                                           2714+         DS    0FD
000030E0                     000030E0              2715+         USING *,R5              base for test data and test routine
000030E0  00003118                                 2716+T68      DC    A(X68)            address of test routine
000030E4  0044                                     2717+         DC    H'68'             test number
000030E6  00                                       2718+         DC    XL1'00'
000030E7  01                                       2719+         DC    HL1'1'            &M3
000030E8  00                                       2720+         DC    HL1'0'            &M4
000030E9  00                                       2721+         DC    HL1'0'            cc
000030EA  07                                       2722+         DC    HL1'7'            cc failed mask
000030EB  E5C3E5C2 C7404040                        2723+         DC    CL8'VCVBG'        instruction name
000030F4  00000010                                 2724+         DC    A(16)             result length
000030F8  0000313C                                 2725+REA68    DC    A(RE68)           result address
00003100  00000000 00000000                        2726+         DS    FD                      gap
00003108  00000000 00000000                        2727+R1O68    DS    FD                R1 OUTPUT
00003110  00000000 00000000                        2728+         DS    FD                      gap
                                                   2729+*                                  INSTRUCTION UNDER TEST ROUTINE
00003118                                           2730+X68      DS    0F
00003118  E310 8EF0 0004                 000010F0  2731+         LG    R1,R1FUDGE        pollute R1
0000311E  E710 5064 0006                 00003144  2732+         VL    V1,RE68+8         get V1 source
00003124  E611 0010 0052                           2733+         VCVBG R1,V1,1,0         test instruction
0000312A  E310 5028 0024                 00003108  2734+         STG   R1,R1O68          save
00003130  B98D 0020                                2735+         EPSW  R2,R0             exptract psw
00003134  5020 8EE4                      000010E4  2736+         ST    R2,CCPSW              to save CC
00003138  07FB                                     2737+         BR    R11               return
0000313C                                           2738+RE68     DC    0F
0000313C                                           2739+         DROP  R5
0000313C  FFFFFFFF FFFFFF01                        2740          DC    XL08'FFFFFFFFFFFFFF01'                    R1 result
00003144  00000000 00000000                        2741          DC    XL16'00000000000000000000000000000255B'   V1 source
0000314C  00000000 0000255B

                                                   2742
                                                   2743          VRR_I VCVBG,1,0,0                               + SIGN - E
00003158                                           2744+         DS    0FD
00003158                     00003158              2745+         USING *,R5              base for test data and test routine
00003158  00003190                                 2746+T69      DC    A(X69)            address of test routine
0000315C  0045                                     2747+         DC    H'69'             test number
0000315E  00                                       2748+         DC    XL1'00'
0000315F  01                                       2749+         DC    HL1'1'            &M3
00003160  00                                       2750+         DC    HL1'0'            &M4
00003161  00                                       2751+         DC    HL1'0'            cc
00003162  07                                       2752+         DC    HL1'7'            cc failed mask
00003163  E5C3E5C2 C7404040                        2753+         DC    CL8'VCVBG'        instruction name
0000316C  00000010                                 2754+         DC    A(16)             result length
00003170  000031B4                                 2755+REA69    DC    A(RE69)           result address
00003178  00000000 00000000                        2756+         DS    FD                      gap
00003180  00000000 00000000                        2757+R1O69    DS    FD                R1 OUTPUT
00003188  00000000 00000000                        2758+         DS    FD                      gap
                                                   2759+*                                  INSTRUCTION UNDER TEST ROUTINE
00003190                                           2760+X69      DS    0F
00003190  E310 8EF0 0004                 000010F0  2761+         LG    R1,R1FUDGE        pollute R1
00003196  E710 5064 0006                 000031BC  2762+         VL    V1,RE69+8         get V1 source
0000319C  E611 0010 0052                           2763+         VCVBG R1,V1,1,0         test instruction
000031A2  E310 5028 0024                 00003180  2764+         STG   R1,R1O69          save
000031A8  B98D 0020                                2765+         EPSW  R2,R0             exptract psw
000031AC  5020 8EE4                      000010E4  2766+         ST    R2,CCPSW              to save CC
000031B0  07FB                                     2767+         BR    R11               return
000031B4                                           2768+RE69     DC    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000031B4                                           2769+         DROP  R5
000031B4  00000000 000000FF                        2770          DC    XL08'00000000000000FF'                    R1 result
000031BC  00000000 00000000                        2771          DC    XL16'0000000000000000000000000000255E'    V1 source
000031C4  00000000 0000255E
                                                   2772
                                                   2773          VRR_I VCVBG,1,0,0                               + SIGN - F
000031D0                                           2774+         DS    0FD
000031D0                      000031D0             2775+         USING *,R5              base for test data and test routine
000031D0  00003208                                 2776+T70      DC    A(X70)            address of test routine
000031D4  0046                                     2777+         DC    H'70'             test number
000031D6  00                                       2778+         DC    XL1'00'
000031D7  01                                       2779+         DC    HL1'1'            &M3
000031D8  00                                       2780+         DC    HL1'0'            &M4
000031D9  00                                       2781+         DC    HL1'0'            cc
000031DA  07                                       2782+         DC    HL1'7'            cc failed mask
000031DB  E5C3E5C2 C7404040                        2783+         DC    CL8'VCVBG'        instruction name
000031E4  00000010                                 2784+         DC    A(16)             result length
000031E8  0000322C                                 2785+REA70    DC    A(RE70)           result address
000031F0  00000000 00000000                        2786+         DS    FD                      gap
000031F8  00000000 00000000                        2787+R1O70    DS    FD                R1 OUTPUT
00003200  00000000 00000000                        2788+         DS    FD                      gap
                                                   2789+*                                  INSTRUCTION UNDER TEST ROUTINE
00003208                                           2790+X70      DS    0F
00003208  E310 8EF0 0004                000010F0   2791+         LG    R1,R1FUDGE        pollute R1
0000320E  E710 5064 0006                00003234   2792+         VL    V1,RE70+8         get V1 source
00003214  E611 0010 0052                           2793+         VCVBG R1,V1,1,0         test instruction
0000321A  E310 5028 0024                000031F8   2794+         STG   R1,R1O70          save
00003220  B98D 0020                                2795+         EPSW  R2,R0             exptract psw
00003224  5020 8EE4                     000010E4   2796+         ST    R2,CCPSW              to save CC
00003228  07FB                                     2797+         BR    R11               return
0000322C                                           2798+RE70     DC    0F
0000322C                                           2799+         DROP  R5
0000322C  00000000 000000FF                        2800          DC    XL08'00000000000000FF'                    R1 result
00003234  00000000 00000000                        2801          DC    XL16'0000000000000000000000000000255F'    V1 source
0000323C  00000000 0000255F
                                                   2802
                                                   2803          VRR_I VCVBG,1,0,0
00003248                                           2804+         DS    0FD
00003248                      00003248             2805+         USING *,R5              base for test data and test routine
00003248  00003280                                 2806+T71      DC    A(X71)            address of test routine
0000324C  0047                                     2807+         DC    H'71'             test number
0000324E  00                                       2808+         DC    XL1'00'
0000324F  01                                       2809+         DC    HL1'1'            &M3
00003250  00                                       2810+         DC    HL1'0'            &M4
00003251  00                                       2811+         DC    HL1'0'            cc
00003252  07                                       2812+         DC    HL1'7'            cc failed mask
00003253  E5C3E5C2 C7404040                        2813+         DC    CL8'VCVBG'        instruction name
0000325C  00000010                                 2814+         DC    A(16)             result length
00003260  000032A4                                 2815+REA71    DC    A(RE71)           result address
00003268  00000000 00000000                        2816+         DS    FD                      gap
00003270  00000000 00000000                        2817+R1O71    DS    FD                R1 OUTPUT
00003278  00000000 00000000                        2818+         DS    FD                      gap
                                                   2819+*                                  INSTRUCTION UNDER TEST ROUTINE
00003280                                           2820+X71      DS    0F
00003280  E310 8EF0 0004                000010F0   2821+         LG    R1,R1FUDGE        pollute R1
00003286  E710 5064 0006                000032AC   2822+         VL    V1,RE71+8         get V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000328C  E611 0010 0052                           2823+         VCVBG R1,V1,1,0         test instruction
00003292  E310 5028 0024                 00003270  2824+         STG   R1,R1O71          save
00003298  B98D 0020                                2825+         EPSW  R2,R0             exptract psw
0000329C  5020 8EE4                      000010E4  2826+         ST    R2,CCPSW              to save CC
000032A0  07FB                                     2827+         BR    R11               return
000032A4                                           2828+RE71     DC    0F
000032A4                                           2829+         DROP  R5
000032A4  00000000 0008A160                        2830          DC    XL08'000000000008A160'                    R1 result
000032AC  00000000 00000000                        2831          DC    XL16'0000000000000000000000000565600C'    V1 source
000032B4  00000000 0565600C
                                                   2832
                                                   2833          VRR_I VCVBG,1,0,0
000032C0                                           2834+         DS    0FD
000032C0                         000032C0          2835+         USING *,R5              base for test data and test routine
000032C0  000032F8                                 2836+T72      DC    A(X72)            address of test routine
000032C4  0048                                     2837+         DC    H'72'             test number
000032C6  00                                       2838+         DC    XL1'00'
000032C7  01                                       2839+         DC    HL1'1'            &M3
000032C8  00                                       2840+         DC    HL1'0'            &M4
000032C9  00                                       2841+         DC    HL1'0'            cc
000032CA  07                                       2842+         DC    HL1'7'            cc failed mask
000032CB  E5C3E5C2 C7404040                        2843+         DC    CL8'VCVBG'        instruction name
000032D4  00000010                                 2844+         DC    A(16)             result length
000032D8  0000331C                                 2845+REA72    DC    A(RE72)           result address
000032E0  00000000 00000000                        2846+         DS    FD                      gap
000032E8  00000000 00000000                        2847+R1O72    DS    FD                R1 OUTPUT
000032F0  00000000 00000000                        2848+         DS    FD                      gap
                                                   2849+*                                INSTRUCTION UNDER TEST ROUTINE
000032F8                                           2850+X72      DS    0F
000032F8  E310 8EF0 0004                 000010F0  2851+         LG    R1,R1FUDGE        pollute R1
000032FE  E710 5064 0006                 00003324  2852+         VL    V1,RE72+8         get V1 source
00003304  E611 0010 0052                           2853+         VCVBG R1,V1,1,0         test instruction
0000330A  E310 5028 0024                 000032E8  2854+         STG   R1,R1O72          save
00003310  B98D 0020                                2855+         EPSW  R2,R0             exptract psw
00003314  5020 8EE4                      000010E4  2856+         ST    R2,CCPSW              to save CC
00003318  07FB                                     2857+         BR    R11               return
0000331C                                           2858+RE72     DC    0F
0000331C                                           2859+         DROP  R5
0000331C  FFFFFFFF FFF75EA0                        2860          DC    XL08'FFFFFFFFFFF75EA0'                    R1 result
00003324  00000000 00000000                        2861          DC    XL16'0000000000000000000000000565600D'    V1 source
0000332C  00000000 0565600D
                                                   2862
                                                   2863          VRR_I VCVBG,1,0,0                               INT_MAX
00003338                                           2864+         DS    0FD
00003338                         00003338          2865+         USING *,R5              base for test data and test routine
00003338  00003370                                 2866+T73      DC    A(X73)            address of test routine
0000333C  0049                                     2867+         DC    H'73'             test number
0000333E  00                                       2868+         DC    XL1'00'
0000333F  01                                       2869+         DC    HL1'1'            &M3
00003340  00                                       2870+         DC    HL1'0'            &M4
00003341  00                                       2871+         DC    HL1'0'            cc
00003342  07                                       2872+         DC    HL1'7'            cc failed mask
00003343  E5C3E5C2 C7404040                        2873+         DC    CL8'VCVBG'        instruction name
0000334C  00000010                                 2874+         DC    A(16)             result length
00003350  00003394                                 2875+REA73    DC    A(RE73)           result address
00003358  00000000 00000000                        2876+         DS    FD                      gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003360  00000000 00000000                        2877+R1O73    DS    FD                R1 OUTPUT
00003368  00000000 00000000                        2878+         DS    FD                      gap
                                                   2879+*                                INSTRUCTION UNDER TEST ROUTINE
00003370                                           2880+X73      DS    0F
00003370  E310 8EF0 0004                 000010F0  2881+         LG    R1,R1FUDGE        pollute R1
00003376  E710 5064 0006                 0000339C  2882+         VL    V1,RE73+8         get V1 source
0000337C  E611 0010 0052                           2883+         VCVBG R1,V1,1,0         test instruction
00003382  E310 5028 0024                 00003360  2884+         STG   R1,R1O73          save
00003388  B98D 0020                                2885+         EPSW  R2,R0             exptract psw
0000338C  5020 8EE4                      000010E4  2886+         ST    R2,CCPSW              to save CC
00003390  07FB                                     2887+         BR    R11               return
00003394                                           2888+RE73     DC    0F
00003394                                           2889+         DROP  R5
00003394  00000000 7FFFFFFF                        2890          DC    XL08'000000007FFFFFFF'                    R1 result
0000339C  00000000 00000000                        2891          DC    XL16'00000000000000000000002147483647C'   V1 source
000033A4  00000214 7483647C
                                                   2892
                                                   2893          VRR_I VCVBG,1,0,0                               INT_MIN
000033B0                                           2894+         DS    0FD
000033B0                         000033B0          2895+         USING *,R5              base for test data and test routine
000033B0  000033E8                                 2896+T74      DC    A(X74)            address of test routine
000033B4  004A                                     2897+         DC    H'74'             test number
000033B6  00                                       2898+         DC    XL1'00'
000033B7  01                                       2899+         DC    HL1'1'            &M3
000033B8  00                                       2900+         DC    HL1'0'            &M4
000033B9  00                                       2901+         DC    HL1'0'            cc
000033BA  07                                       2902+         DC    HL1'7'            cc failed mask
000033BB  E5C3E5C2 C7404040                        2903+         DC    CL8'VCVBG'        instruction name
000033C4  00000010                                 2904+         DC    A(16)             result length
000033C8  0000340C                                 2905+REA74    DC    A(RE74)           result address
000033D0  00000000 00000000                        2906+         DS    FD                      gap
000033D8  00000000 00000000                        2907+R1O74    DS    FD                R1 OUTPUT
000033E0  00000000 00000000                        2908+         DS    FD                      gap
                                                   2909+*                                INSTRUCTION UNDER TEST ROUTINE
000033E8                                           2910+X74      DS    0F
000033E8  E310 8EF0 0004                 000010F0  2911+         LG    R1,R1FUDGE        pollute R1
000033EE  E710 5064 0006                 00003414  2912+         VL    V1,RE74+8         get V1 source
000033F4  E611 0010 0052                           2913+         VCVBG R1,V1,1,0         test instruction
000033FA  E310 5028 0024                 000033D8  2914+         STG   R1,R1O74          save
00003400  B98D 0020                                2915+         EPSW  R2,R0             exptract psw
00003404  5020 8EE4                      000010E4  2916+         ST    R2,CCPSW              to save CC
00003408  07FB                                     2917+         BR    R11               return
0000340C                                           2918+RE74     DC    0F
0000340C                                           2919+         DROP  R5
0000340C  FFFFFFFF 80000000                        2920          DC    XL08'FFFFFFFF80000000'                    R1 result
00003414  00000000 00000000                        2921          DC    XL16'00000000000000000000002147483648D'   V1 source
0000341C  00000214 7483648D
                                                   2922
                                                   2923          VRR_I VCVBG,1,0,0                               UINT_MAX
00003428                                           2924+         DS    0FD
00003428                         00003428          2925+         USING *,R5              base for test data and test routine
00003428  00003460                                 2926+T75      DC    A(X75)            address of test routine
0000342C  004B                                     2927+         DC    H'75'             test number
0000342E  00                                       2928+         DC    XL1'00'
0000342F  01                                       2929+         DC    HL1'1'            &M3
00003430  00                                       2930+         DC    HL1'0'            &M4
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003431  00                                       2931+         DC    HL1'0'            cc
00003432  07                                       2932+         DC    HL1'7'            cc failed mask
00003433  E5C3E5C2 C7404040                        2933+         DC    CL8'VCVBG'        instruction name
0000343C  00000010                                 2934+         DC    A(16)             result length
00003440  00003484                                 2935+REA75    DC    A(RE75)           result address
00003448  00000000 00000000                        2936+         DS    FD                      gap
00003450  00000000 00000000                        2937+R1O75    DS    FD                R1 OUTPUT
00003458  00000000 00000000                        2938+         DS    FD                      gap
                                                   2939+*                                  INSTRUCTION UNDER TEST ROUTINE
00003460                                           2940+X75      DS    0F
00003460  E310 8EF0 0004                000010F0   2941+         LG    R1,R1FUDGE        pollute R1
00003466  E710 5064 0006                0000348C   2942+         VL    V1,RE75+8         get V1 source
0000346C  E611 0010 0052                           2943+         VCVBG R1,V1,1,0         test instruction
00003472  E310 5028 0024                00003450   2944+         STG   R1,R1O75          save
00003478  B98D 0020                                2945+         EPSW  R2,R0             exptract psw
0000347C  5020 8EE4                     000010E4   2946+         ST    R2,CCPSW              to save CC
00003480  07FB                                     2947+         BR    R11               return
00003484                                           2948+RE75     DC    0F
00003484                                           2949+         DROP  R5
00003484  00000000 FFFFFFFF                        2950          DC    XL08'00000000FFFFFFFF'                    R1 result
0000348C  00000000 00000000                        2951          DC    XL16'00000000000000000000004294967295C'   V1 source
00003494  00000429 4967295C
                                                   2952
                                                   2953          VRR_I VCVBG,1,0,0                               UINT_MAX +1
000034A0                                           2954+         DS    0FD
000034A0                        000034A0           2955+         USING *,R5              base for test data and test routine
000034A0  000034D8                                 2956+T76      DC    A(X76)            address of test routine
000034A4  004C                                     2957+         DC    H'76'             test number
000034A6  00                                       2958+         DC    XL1'00'
000034A7  01                                       2959+         DC    HL1'1'            &M3
000034A8  00                                       2960+         DC    HL1'0'            &M4
000034A9  00                                       2961+         DC    HL1'0'            cc
000034AA  07                                       2962+         DC    HL1'7'            cc failed mask
000034AB  E5C3E5C2 C7404040                        2963+         DC    CL8'VCVBG'        instruction name
000034B4  00000010                                 2964+         DC    A(16)             result length
000034B8  000034FC                                 2965+REA76    DC    A(RE76)           result address
000034C0  00000000 00000000                        2966+         DS    FD                      gap
000034C8  00000000 00000000                        2967+R1O76    DS    FD                R1 OUTPUT
000034D0  00000000 00000000                        2968+         DS    FD                      gap
                                                   2969+*                                  INSTRUCTION UNDER TEST ROUTINE
000034D8                                           2970+X76      DS    0F
000034D8  E310 8EF0 0004                000010F0   2971+         LG    R1,R1FUDGE        pollute R1
000034DE  E710 5064 0006                00003504   2972+         VL    V1,RE76+8         get V1 source
000034E4  E611 0010 0052                           2973+         VCVBG R1,V1,1,0         test instruction
000034EA  E310 5028 0024                000034C8   2974+         STG   R1,R1O76          save
000034F0  B98D 0020                                2975+         EPSW  R2,R0             exptract psw
000034F4  5020 8EE4                     000010E4   2976+         ST    R2,CCPSW              to save CC
000034F8  07FB                                     2977+         BR    R11               return
000034FC                                           2978+RE76     DC    0F
000034FC                                           2979+         DROP  R5
000034FC  00000001 00000000                        2980          DC    XL08'0000000100000000'                    R1 result
00003504  00000000 00000000                        2981          DC    XL16'00000000000000000000004294967296C'   V1 source
0000350C  00000429 4967296C
                                                   2982
                                                   2983          VRR_I VCVBG,1,0,0
00003518                                           2984+         DS    0FD
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003518                     00003518            2985+         USING *,R5              base for test data and test routine
00003518  00003550                               2986+T77      DC    A(X77)            address of test routine
0000351C  004D                                   2987+         DC    H'77'             test number
0000351E  00                                     2988+         DC    XL1'00'
0000351F  01                                     2989+         DC    HL1'1'            &M3
00003520  00                                     2990+         DC    HL1'0'            &M4
00003521  00                                     2991+         DC    HL1'0'            cc
00003522  07                                     2992+         DC    HL1'7'            cc failed mask
00003523  E5C3E5C2 C7404040                      2993+         DC    CL8'VCVBG'        instruction name
0000352C  00000010                               2994+         DC    A(16)             result length
00003530  00003574                               2995+REA77    DC    A(RE77)           result address
00003538  00000000 00000000                      2996+         DS    FD                      gap
00003540  00000000 00000000                      2997+R1O77    DS    FD                R1 OUTPUT
00003548  00000000 00000000                      2998+         DS    FD                      gap
                                                 2999+*                                  INSTRUCTION UNDER TEST ROUTINE
00003550                                         3000+X77      DS    0F
00003550  E310 8EF0 0004                000010F0 3001+         LG    R1,R1FUDGE        pollute R1
00003556  E710 5064 0006                0000357C 3002+         VL    V1,RE77+8         get V1 source
0000355C  E611 0010 0052                         3003+         VCVBG R1,V1,1,0         test instruction
00003562  E310 5028 0024                00003540 3004+         STG   R1,R1O77          save
00003568  B98D 0020                              3005+         EPSW  R2,R0             exptract psw
0000356C  5020 8EE4                     000010E4 3006+         ST    R2,CCPSW              to save CC
00003570  07FB                                   3007+         BR    R11               return
00003574                                         3008+RE77     DC    0F
00003574                                         3009+         DROP  R5
00003574  00000002 DF8E1660                      3010          DC    XL08'00000002DF8E1660'                  R1 result
0000357C  00000000 00000000                      3011          DC    XL16'00000000000000000000012340565600C'  V1 source
00003584  00001234 0565600C
                                                 3012
                                                 3013          VRR_I VCVBG,1,0,0                             LONG_MAX
00003590                                         3014+         DS    0FD
00003590                     00003590            3015+         USING *,R5              base for test data and test routine
00003590  000035C8                               3016+T78      DC    A(X78)            address of test routine
00003594  004E                                   3017+         DC    H'78'             test number
00003596  00                                     3018+         DC    XL1'00'
00003597  01                                     3019+         DC    HL1'1'            &M3
00003598  00                                     3020+         DC    HL1'0'            &M4
00003599  00                                     3021+         DC    HL1'0'            cc
0000359A  07                                     3022+         DC    HL1'7'            cc failed mask
0000359B  E5C3E5C2 C7404040                      3023+         DC    CL8'VCVBG'        instruction name
000035A4  00000010                               3024+         DC    A(16)             result length
000035A8  000035EC                               3025+REA78    DC    A(RE78)           result address
000035B0  00000000 00000000                      3026+         DS    FD                      gap
000035B8  00000000 00000000                      3027+R1O78    DS    FD                R1 OUTPUT
000035C0  00000000 00000000                      3028+         DS    FD                      gap
                                                 3029+*                                  INSTRUCTION UNDER TEST ROUTINE
000035C8                                         3030+X78      DS    0F
000035C8  E310 8EF0 0004                000010F0 3031+         LG    R1,R1FUDGE        pollute R1
000035CE  E710 5064 0006                000035F4 3032+         VL    V1,RE78+8         get V1 source
000035D4  E611 0010 0052                         3033+         VCVBG R1,V1,1,0         test instruction
000035DA  E310 5028 0024                000035B8 3034+         STG   R1,R1O78          save
000035E0  B98D 0020                              3035+         EPSW  R2,R0             exptract psw
000035E4  5020 8EE4                     000010E4 3036+         ST    R2,CCPSW              to save CC
000035E8  07FB                                   3037+         BR    R11               return
000035EC                                         3038+RE78     DC    0F
000035EC                                         3039+         DROP  R5
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000035EC  7FFFFFFF FFFFFFFF                        3040          DC    XL08'7FFFFFFFFFFFFFFF'                    R1 result
000035F4  00000000 00009223                        3041          DC    XL16'00000000000092233720368547758 07C'   V1 source
000035FC  37203685 4775807C
                                                   3042
                                                   3043          VRR_I VCVBG,1,0,0                               LONG_MIN
00003608                                           3044+         DS    0FD
00003608                      00003608             3045+         USING *,R5              base for test data and test routine
00003608  00003640                                 3046+T79      DC    A(X79)            address of test routine
0000360C  004F                                     3047+         DC    H'79'             test number
0000360E  00                                       3048+         DC    XL1'00'
0000360F  01                                       3049+         DC    HL1'1'            &M3
00003610  00                                       3050+         DC    HL1'0'            &M4
00003611  00                                       3051+         DC    HL1'0'            cc
00003612  07                                       3052+         DC    HL1'7'            cc failed mask
00003613  E5C3E5C2 C7404040                        3053+         DC    CL8'VCVBG'        instruction name
0000361C  00000010                                 3054+         DC    A(16)             result length
00003620  00003664                                 3055+REA79    DC    A(RE79)           result address
00003628  00000000 00000000                        3056+         DS    FD                      gap
00003630  00000000 00000000                        3057+R1O79    DS    FD                R1 OUTPUT
00003638  00000000 00000000                        3058+         DS    FD                      gap
                                                   3059+*                                  INSTRUCTION UNDER TEST ROUTINE
00003640                                           3060+X79      DS    0F
00003640  E310 8EF0 0004                000010F0   3061+         LG    R1,R1FUDGE        pollute R1
00003646  E710 5064 0006                0000366C   3062+         VL    V1,RE79+8         get V1 source
0000364C  E611 0010 0052                           3063+         VCVBG R1,V1,1,0         test instruction
00003652  E310 5028 0024                00003630   3064+         STG   R1,R1O79          save
00003658  B98D 0020                                3065+         EPSW  R2,R0             exptract psw
0000365C  5020 8EE4                     000010E4   3066+         ST    R2,CCPSW              to save CC
00003660  07FB                                     3067+         BR    R11               return
00003664                                           3068+RE79     DC    0F
00003664                                           3069+         DROP  R5
00003664  80000000 00000000                        3070          DC    XL08'8000000000000000'                    R1 result
0000366C  00000000 00009223                        3071          DC    XL16'00000000000092233720368547758 08D'   V1 source
00003674  37203685 4775808D
                                                   3072
                                                   3073 * VCVBG  m3=1 (p2=0, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                   3074 *        cc=3 (overflow)
                                                   3075          VRR_I VCVBG,1,0,3                               ULONG_MAX
00003680                                           3076+         DS    0FD
00003680                      00003680             3077+         USING *,R5              base for test data and test routine
00003680  000036B8                                 3078+T80      DC    A(X80)            address of test routine
00003684  0050                                     3079+         DC    H'80'             test number
00003686  00                                       3080+         DC    XL1'00'
00003687  01                                       3081+         DC    HL1'1'            &M3
00003688  00                                       3082+         DC    HL1'0'            &M4
00003689  03                                       3083+         DC    HL1'3'            cc
0000368A  0E                                       3084+         DC    HL1'14'           cc failed mask
0000368B  E5C3E5C2 C7404040                        3085+         DC    CL8'VCVBG'        instruction name
00003694  00000010                                 3086+         DC    A(16)             result length
00003698  000036DC                                 3087+REA80    DC    A(RE80)           result address
000036A0  00000000 00000000                        3088+         DS    FD                      gap
000036A8  00000000 00000000                        3089+R1O80    DS    FD                R1 OUTPUT
000036B0  00000000 00000000                        3090+         DS    FD                      gap
                                                   3091+*                                  INSTRUCTION UNDER TEST ROUTINE
000036B8                                           3092+X80      DS    0F
000036B8  E310 8EF0 0004                000010F0   3093+         LG    R1,R1FUDGE        pollute R1
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000036BE  E710 5064 0006                000036E4  3094+         VL    V1,RE80+8         get V1 source
000036C4  E611 0010 0052                          3095+         VCVBG R1,V1,1,0         test instruction
000036CA  E310 5028 0024                000036A8  3096+         STG   R1,R1O80          save
000036D0  B98D 0020                               3097+         EPSW  R2,R0             exptract psw
000036D4  5020 8EE4                     000010E4  3098+         ST    R2,CCPSW              to save CC
000036D8  07FB                                    3099+         BR    R11               return
000036DC                                          3100+RE80     DC    0F
000036DC                                          3101+         DROP  R5
000036DC  FFFFFFFF FFFFFFFF                       3102          DC    XL08'FFFFFFFFFFFFFFFF'                    R1 result
000036E4  00000000 00018446                       3103          DC    XL16'00000000000184467440737095516 15C'   V1 source
000036EC  74407370 9551615C
                                                  3104
                                                  3105          VRR_I VCVBG,1,0,3                               ULONG_MAX +1
000036F8                                          3106+         DS    0FD
000036F8                        000036F8          3107+         USING *,R5              base for test data and test routine
000036F8  00003730                                3108+T81      DC    A(X81)            address of test routine
000036FC  0051                                    3109+         DC    H'81'             test number
000036FE  00                                      3110+         DC    XL1'00'
000036FF  01                                      3111+         DC    HL1'1'            &M3
00003700  00                                      3112+         DC    HL1'0'            &M4
00003701  03                                      3113+         DC    HL1'3'            cc
00003702  0E                                      3114+         DC    HL1'14'           cc failed mask
00003703  E5C3E5C2 C7404040                       3115+         DC    CL8'VCVBG'        instruction name
0000370C  00000010                                3116+         DC    A(16)             result length
00003710  00003754                                3117+REA81    DC    A(RE81)           result address
00003718  00000000 00000000                       3118+         DS    FD                      gap
00003720  00000000 00000000                       3119+R1O81    DS    FD                R1 OUTPUT
00003728  00000000 00000000                       3120+         DS    FD                      gap
                                                  3121+*                                  INSTRUCTION UNDER TEST ROUTINE
00003730                                          3122+X81      DS    0F
00003730  E310 8EF0 0004                000010F0  3123+         LG    R1,R1FUDGE        pollute R1
00003736  E710 5064 0006                0000375C  3124+         VL    V1,RE81+8         get V1 source
0000373C  E611 0010 0052                          3125+         VCVBG R1,V1,1,0         test instruction
00003742  E310 5028 0024                00003720  3126+         STG   R1,R1O81          save
00003748  B98D 0020                               3127+         EPSW  R2,R0             exptract psw
0000374C  5020 8EE4                     000010E4  3128+         ST    R2,CCPSW              to save CC
00003750  07FB                                    3129+         BR    R11               return
00003754                                          3130+RE81     DC    0F
00003754                                          3131+         DROP  R5
00003754  00000000 00000000                       3132          DC    XL08'0000000000000000'                    R1 result
0000375C  00000000 00018446                       3133          DC    XL16'00000000000184467440737095516 16C'   V1 source
00003764  74407370 9551616C
                                                  3134
                                                  3135          VRR_I VCVBG,1,0,3                               ULONG_MAX +11
00003770                                          3136+         DS    0FD
00003770                        00003770          3137+         USING *,R5              base for test data and test routine
00003770  000037A8                                3138+T82      DC    A(X82)            address of test routine
00003774  0052                                    3139+         DC    H'82'             test number
00003776  00                                      3140+         DC    XL1'00'
00003777  01                                      3141+         DC    HL1'1'            &M3
00003778  00                                      3142+         DC    HL1'0'            &M4
00003779  03                                      3143+         DC    HL1'3'            cc
0000377A  0E                                      3144+         DC    HL1'14'           cc failed mask
0000377B  E5C3E5C2 C7404040                       3145+         DC    CL8'VCVBG'        instruction name
00003784  00000010                                3146+         DC    A(16)             result length
00003788  000037CC                                3147+REA82    DC    A(RE82)           result address
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003790  00000000 00000000                        3148+         DS    FD                      gap
00003798  00000000 00000000                        3149+R1O82    DS    FD                 R1 OUTPUT
000037A0  00000000 00000000                        3150+         DS    FD                      gap
                                                   3151+*                                INSTRUCTION UNDER TEST ROUTINE
000037A8                                           3152+X82      DS    0F
000037A8  E310 8EF0 0004                 000010F0  3153+         LG    R1,R1FUDGE         pollute R1
000037AE  E710 5064 0006                 000037D4  3154+         VL    V1,RE82+8          get V1 source
000037B4  E611 0010 0052                           3155+         VCVBG R1,V1,1,0          test instruction
000037BA  E310 5028 0024                 00003798  3156+         STG   R1,R1O82           save
000037C0  B98D 0020                                3157+         EPSW  R2,R0              exptract psw
000037C4  5020 8EE4                      000010E4  3158+         ST    R2,CCPSW               to save CC
000037C8  07FB                                     3159+         BR    R11                return
000037CC                                           3160+RE82     DC    0F
000037CC                                           3161+         DROP  R5
000037CC  00000000 0000000A                        3162          DC    XL08'000000000000000A'                    R1 result
000037D4  00000000 00018446                        3163          DC    XL16'00000000000184467440737095516 26C'   V1 source
000037DC  74407370 9551626C
                                                   3164
                                                   3165          VRR_I VCVBG,1,0,3                            -(ULONG_MAX +1)
000037E8                                           3166+         DS    0FD
000037E8                         000037E8          3167+         USING *,R5               base for test data and test routine
000037E8  00003820                                 3168+T83      DC    A(X83)             address of test routine
000037EC  0053                                     3169+         DC    H'83'              test number
000037EE  00                                       3170+         DC    XL1'00'
000037EF  01                                       3171+         DC    HL1'1'             &M3
000037F0  00                                       3172+         DC    HL1'0'             &M4
000037F1  03                                       3173+         DC    HL1'3'             cc
000037F2  0E                                       3174+         DC    HL1'14'            cc failed mask
000037F3  E5C3E5C2 C7404040                        3175+         DC    CL8'VCVBG'         instruction name
000037FC  00000010                                 3176+         DC    A(16)              result length
00003800  00003844                                 3177+REA83    DC    A(RE83)            result address
00003808  00000000 00000000                        3178+         DS    FD                      gap
00003810  00000000 00000000                        3179+R1O83    DS    FD                 R1 OUTPUT
00003818  00000000 00000000                        3180+         DS    FD                      gap
                                                   3181+*                                INSTRUCTION UNDER TEST ROUTINE
00003820                                           3182+X83      DS    0F
00003820  E310 8EF0 0004                 000010F0  3183+         LG    R1,R1FUDGE         pollute R1
00003826  E710 5064 0006                 0000384C  3184+         VL    V1,RE83+8          get V1 source
0000382C  E611 0010 0052                           3185+         VCVBG R1,V1,1,0          test instruction
00003832  E310 5028 0024                 00003810  3186+         STG   R1,R1O83           save
00003838  B98D 0020                                3187+         EPSW  R2,R0              exptract psw
0000383C  5020 8EE4                      000010E4  3188+         ST    R2,CCPSW               to save CC
00003840  07FB                                     3189+         BR    R11                return
00003844                                           3190+RE83     DC    0F
00003844                                           3191+         DROP  R5
00003844  00000000 00000000                        3192          DC    XL08'0000000000000000'                    R1 result
0000384C  00000000 00018446                        3193          DC    XL16'00000000000184467440737095516 16D'   V1 source
00003854  74407370 9551616D
                                                   3194
                                                   3195          VRR_I VCVBG,1,0,3                            -(ULONG_MAX +11)
00003860                                           3196+         DS    0FD
00003860                         00003860          3197+         USING *,R5               base for test data and test routine
00003860  00003898                                 3198+T84      DC    A(X84)             address of test routine
00003864  0054                                     3199+         DC    H'84'              test number
00003866  00                                       3200+         DC    XL1'00'
00003867  01                                       3201+         DC    HL1'1'             &M3
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003868  00                                       3202+         DC    HL1'0'            &M4
00003869  03                                       3203+         DC    HL1'3'            cc
0000386A  0E                                       3204+         DC    HL1'14'           cc failed mask
0000386B  E5C3E5C2 C7404040                        3205+         DC    CL8'VCVBG'        instruction name
00003874  00000010                                 3206+         DC    A(16)             result length
00003878  000038BC                                 3207+REA84    DC    A(RE84)           result address
00003880  00000000 00000000                        3208+         DS    FD                      gap
00003888  00000000 00000000                        3209+R1O84    DS    FD                R1 OUTPUT
00003890  00000000 00000000                        3210+         DS    FD                      gap
                                                   3211+*                                  INSTRUCTION UNDER TEST ROUTINE
00003898                                           3212+X84      DS    0F
00003898  E310 8EF0 0004                 000010F0  3213+         LG    R1,R1FUDGE        pollute R1
0000389E  E710 5064 0006                 000038C4  3214+         VL    V1,RE84+8         get V1 source
000038A4  E611 0010 0052                           3215+         VCVBG R1,V1,1,0         test instruction
000038AA  E310 5028 0024                 00003888  3216+         STG   R1,R1O84          save
000038B0  B98D 0020                                3217+         EPSW  R2,R0             exptract psw
000038B4  5020 8EE4                      000010E4  3218+         ST    R2,CCPSW              to save CC
000038B8  07FB                                     3219+         BR    R11               return
000038BC                                           3220+RE84     DC    0F
000038BC                                           3221+         DROP  R5
000038BC  FFFFFFFF FFFFFFF6                        3222          DC    XL08'FFFFFFFFFFFFFFF6'                  R1 result
000038C4  00000000 00018446                        3223          DC    XL16'00000000000184467440737095516 26D'  V1 source
000038CC  74407370 9551626D
                                                   3224
                                                   3225 * VCVBG  m3=1 (p2=0, lb=0, cs=1)      m4=4 (iom=0, orc=1)
                                                   3226 *        cc=3 (overflow)
                                                   3227          VRR_I VCVBG,1,4,3                             ULONG_MAX +1
000038D8                                           3228+         DS    0FD
000038D8                         000038D8          3229+         USING *,R5              base for test data and test routine
000038D8  00003910                                 3230+T85      DC    A(X85)            address of test routine
000038DC  0055                                     3231+         DC    H'85'             test number
000038DE  00                                       3232+         DC    XL1'00'
000038DF  01                                       3233+         DC    HL1'1'            &M3
000038E0  04                                       3234+         DC    HL1'4'            &M4
000038E1  03                                       3235+         DC    HL1'3'            cc
000038E2  0E                                       3236+         DC    HL1'14'           cc failed mask
000038E3  E5C3E5C2 C7404040                        3237+         DC    CL8'VCVBG'        instruction name
000038EC  00000010                                 3238+         DC    A(16)             result length
000038F0  00003934                                 3239+REA85    DC    A(RE85)           result address
000038F8  00000000 00000000                        3240+         DS    FD                      gap
00003900  00000000 00000000                        3241+R1O85    DS    FD                R1 OUTPUT
00003908  00000000 00000000                        3242+         DS    FD                      gap
                                                   3243+*                                  INSTRUCTION UNDER TEST ROUTINE
00003910                                           3244+X85      DS    0F
00003910  E310 8EF0 0004                 000010F0  3245+         LG    R1,R1FUDGE        pollute R1
00003916  E710 5064 0006                 0000393C  3246+         VL    V1,RE85+8         get V1 source
0000391C  E611 0014 0052                           3247+         VCVBG R1,V1,1,4         test instruction
00003922  E310 5028 0024                 00003900  3248+         STG   R1,R1O85          save
00003928  B98D 0020                                3249+         EPSW  R2,R0             exptract psw
0000392C  5020 8EE4                      000010E4  3250+         ST    R2,CCPSW              to save CC
00003930  07FB                                     3251+         BR    R11               return
00003934                                           3252+RE85     DC    0F
00003934                                           3253+         DROP  R5
00003934  00000000 00000000                        3254          DC    XL08'0000000000000000'                  R1 result
0000393C  00000000 00018446                        3255          DC    XL16'00000000000184467440737095516 16C'  V1 source
00003944  74407370 9551616C
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   3256
                                                   3257          VRR_I VCVBG,1,4,3                          ULONG_MAX +11
00003950                                           3258+         DS    0FD
00003950                       00003950            3259+         USING *,R5              base for test data and test routine
00003950  00003988                                 3260+T86      DC    A(X86)            address of test routine
00003954  0056                                     3261+         DC    H'86'             test number
00003956  00                                       3262+         DC    XL1'00'
00003957  01                                       3263+         DC    HL1'1'            &M3
00003958  04                                       3264+         DC    HL1'4'            &M4
00003959  03                                       3265+         DC    HL1'3'            cc
0000395A  0E                                       3266+         DC    HL1'14'           cc failed mask
0000395B  E5C3E5C2 C7404040                        3267+         DC    CL8'VCVBG'        instruction name
00003964  00000010                                 3268+         DC    A(16)             result length
00003968  000039AC                                 3269+REA86    DC    A(RE86)           result address
00003970  00000000 00000000                        3270+         DS    FD                      gap
00003978  00000000 00000000                        3271+R1O86    DS    FD                R1 OUTPUT
00003980  00000000 00000000                        3272+         DS    FD                      gap
                                                   3273+*                                  INSTRUCTION UNDER TEST ROUTINE
00003988                                           3274+X86      DS    0F
00003988  E310 8EF0 0004                000010F0   3275+         LG    R1,R1FUDGE        pollute R1
0000398E  E710 5064 0006                000039B4   3276+         VL    V1,RE86+8         get V1 source
00003994  E611 0014 0052                           3277+         VCVBG R1,V1,1,4         test instruction
0000399A  E310 5028 0024                00003978   3278+         STG   R1,R1O86          save
000039A0  B98D 0020                                3279+         EPSW  R2,R0             exptract psw
000039A4  5020 8EE4                     000010E4   3280+         ST    R2,CCPSW              to save CC
000039A8  07FB                                     3281+         BR    R11               return
000039AC                                           3282+RE86     DC    0F
000039AC                                           3283+         DROP  R5
000039AC  00000000 00000000                        3284          DC    XL08'0000000000000000'                    R1 result
000039B4  00000000 00018446                        3285          DC    XL16'00000000000184467440737095516 26C'   V1 source
000039BC  74407370 9551626C
                                                   3286
                                                   3287          VRR_I VCVBG,1,4,3                         -(ULONG_MAX +1)
000039C8                                           3288+         DS    0FD
000039C8                       000039C8            3289+         USING *,R5              base for test data and test routine
000039C8  00003A00                                 3290+T87      DC    A(X87)            address of test routine
000039CC  0057                                     3291+         DC    H'87'             test number
000039CE  00                                       3292+         DC    XL1'00'
000039CF  01                                       3293+         DC    HL1'1'            &M3
000039D0  04                                       3294+         DC    HL1'4'            &M4
000039D1  03                                       3295+         DC    HL1'3'            cc
000039D2  0E                                       3296+         DC    HL1'14'           cc failed mask
000039D3  E5C3E5C2 C7404040                        3297+         DC    CL8'VCVBG'        instruction name
000039DC  00000010                                 3298+         DC    A(16)             result length
000039E0  00003A24                                 3299+REA87    DC    A(RE87)           result address
000039E8  00000000 00000000                        3300+         DS    FD                      gap
000039F0  00000000 00000000                        3301+R1O87    DS    FD                R1 OUTPUT
000039F8  00000000 00000000                        3302+         DS    FD                      gap
                                                   3303+*                                  INSTRUCTION UNDER TEST ROUTINE
00003A00                                           3304+X87      DS    0F
00003A00  E310 8EF0 0004                000010F0   3305+         LG    R1,R1FUDGE        pollute R1
00003A06  E710 5064 0006                00003A2C   3306+         VL    V1,RE87+8         get V1 source
00003A0C  E611 0014 0052                           3307+         VCVBG R1,V1,1,4         test instruction
00003A12  E310 5028 0024                000039F0   3308+         STG   R1,R1O87          save
00003A18  B98D 0020                                3309+         EPSW  R2,R0             exptract psw
00003A1C  5020 8EE4                     000010E4   3310+         ST    R2,CCPSW              to save CC
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003A20  07FB                                     3311+         BR    R11                 return
00003A24                                           3312+RE87     DC    0F
00003A24                                           3313+         DROP  R5
00003A24  00000000 00000000                        3314          DC    XL08'0000000000000000'                R1 result
00003A2C  00000000 00018446                        3315          DC    XL16'00000000000184467440737095516 16D'  V1 source
00003A34  74407370 9551616D
                                                   3316
                                                   3317          VRR_I VCVBG,1,4,3                         -(ULONG_MAX +11)
00003A40                                           3318+         DS    0FD
00003A40                       00003A40            3319+         USING *,R5                base for test data and test routine
00003A40  00003A78                                 3320+T88      DC    A(X88)                address of test routine
00003A44  0058                                     3321+         DC    H'88'                 test number
00003A46  00                                       3322+         DC    XL1'00'
00003A47  01                                       3323+         DC    HL1'1'                &M3
00003A48  04                                       3324+         DC    HL1'4'                &M4
00003A49  03                                       3325+         DC    HL1'3'                cc
00003A4A  0E                                       3326+         DC    HL1'14'               cc failed mask
00003A4B  E5C3E5C2 C7404040                        3327+         DC    CL8'VCVBG'            instruction name
00003A54  00000010                                 3328+         DC    A(16)                 result length
00003A58  00003A9C                                 3329+REA88    DC    A(RE88)               result address
00003A60  00000000 00000000                        3330+         DS    FD                          gap
00003A68  00000000 00000000                        3331+R1O88    DS    FD                    R1 OUTPUT
00003A70  00000000 00000000                        3332+         DS    FD                          gap
                                                   3333+*                                    INSTRUCTION UNDER TEST ROUTINE
00003A78                                           3334+X88      DS    0F
00003A78  E310 8EF0 0004                000010F0   3335+         LG    R1,R1FUDGE            pollute R1
00003A7E  E710 5064 0006                00003AA4   3336+         VL    V1,RE88+8             get V1 source
00003A84  E611 0014 0052                           3337+         VCVBG R1,V1,1,4             test instruction
00003A8A  E310 5028 0024                00003A68   3338+         STG   R1,R1O88              save
00003A90  B98D 0020                                3339+         EPSW  R2,R0                 exptract psw
00003A94  5020 8EE4                     000010E4   3340+         ST    R2,CCPSW                  to save CC
00003A98  07FB                                     3341+         BR    R11                   return
00003A9C                                           3342+RE88     DC    0F
00003A9C                                           3343+         DROP  R5
00003A9C  00000000 00000000                        3344          DC    XL08'0000000000000000'                R1 result
00003AA4  00000000 00018446                        3345          DC    XL16'00000000000184467440737095516 26D'  V1 source
00003AAC  74407370 9551626D
                                                   3346
                                                   3347 * VCVBG  m3=3 (p2=0, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                   3348 *        cc=0 (no overflow)
                                                   3349          VRR_I VCVBG,3,0,0
00003AB8                                           3350+         DS    0FD
00003AB8                       00003AB8            3351+         USING *,R5                base for test data and test routine
00003AB8  00003AF0                                 3352+T89      DC    A(X89)                address of test routine
00003ABC  0059                                     3353+         DC    H'89'                 test number
00003ABE  00                                       3354+         DC    XL1'00'
00003ABF  03                                       3355+         DC    HL1'3'                &M3
00003AC0  00                                       3356+         DC    HL1'0'                &M4
00003AC1  00                                       3357+         DC    HL1'0'                cc
00003AC2  07                                       3358+         DC    HL1'7'                cc failed mask
00003AC3  E5C3E5C2 C7404040                        3359+         DC    CL8'VCVBG'            instruction name
00003ACC  00000010                                 3360+         DC    A(16)                 result length
00003AD0  00003B14                                 3361+REA89    DC    A(RE89)               result address
00003AD8  00000000 00000000                        3362+         DS    FD                          gap
00003AE0  00000000 00000000                        3363+R1O89    DS    FD                    R1 OUTPUT
00003AE8  00000000 00000000                        3364+         DS    FD                          gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   3365+*                                INSTRUCTION UNDER TEST ROUTINE
00003AF0                                           3366+X89      DS    0F
00003AF0  E310 8EF0 0004                 000010F0  3367+         LG    R1,R1FUDGE        pollute R1
00003AF6  E710 5064 0006                 00003B1C  3368+         VL    V1,RE89+8         get V1 source
00003AFC  E611 0030 0052                           3369+         VCVBG R1,V1,3,0         test instruction
00003B02  E310 5028 0024                 00003AE0  3370+         STG   R1,R1O89          save
00003B08  B98D 0020                                3371+         EPSW  R2,R0             exptract psw
00003B0C  5020 8EE4                      000010E4  3372+         ST    R2,CCPSW              to save CC
00003B10  07FB                                     3373+         BR    R11               return
00003B14                                           3374+RE89     DC    0F
00003B14                                           3375+         DROP  R5
00003B14  00000000 0000000A                        3376          DC    XL08'000000000000000A'                    R1 result
00003B1C  00000000 00000000                        3377          DC    XL16'00000000000000000000000000000010C'   V1 source
00003B24  00000000 0000010C
                                                   3378
                                                   3379          VRR_I VCVBG,3,0,0
00003B30                                           3380+         DS    0FD
00003B30                         00003B30          3381+         USING *,R5              base for test data and test routine
00003B30  00003B68                                 3382+T90      DC    A(X90)            address of test routine
00003B34  005A                                     3383+         DC    H'90'             test number
00003B36  00                                       3384+         DC    XL1'00'
00003B37  03                                       3385+         DC    HL1'3'            &M3
00003B38  00                                       3386+         DC    HL1'0'            &M4
00003B39  00                                       3387+         DC    HL1'0'            cc
00003B3A  07                                       3388+         DC    HL1'7'            cc failed mask
00003B3B  E5C3E5C2 C7404040                        3389+         DC    CL8'VCVBG'        instruction name
00003B44  00000010                                 3390+         DC    A(16)             result length
00003B48  00003B8C                                 3391+REA90    DC    A(RE90)           result address
00003B50  00000000 00000000                        3392+         DS    FD                      gap
00003B58  00000000 00000000                        3393+R1O90    DS    FD                R1 OUTPUT
00003B60  00000000 00000000                        3394+         DS    FD                      gap
                                                   3395+*                                INSTRUCTION UNDER TEST ROUTINE
00003B68                                           3396+X90      DS    0F
00003B68  E310 8EF0 0004                 000010F0  3397+         LG    R1,R1FUDGE        pollute R1
00003B6E  E710 5064 0006                 00003B94  3398+         VL    V1,RE90+8         get V1 source
00003B74  E611 0030 0052                           3399+         VCVBG R1,V1,3,0         test instruction
00003B7A  E310 5028 0024                 00003B58  3400+         STG   R1,R1O90          save
00003B80  B98D 0020                                3401+         EPSW  R2,R0             exptract psw
00003B84  5020 8EE4                      000010E4  3402+         ST    R2,CCPSW              to save CC
00003B88  07FB                                     3403+         BR    R11               return
00003B8C                                           3404+RE90     DC    0F
00003B8C                                           3405+         DROP  R5
00003B8C  00000000 0000000A                        3406          DC    XL08'000000000000000A'                    R1 result
00003B94  00000000 00000000                        3407          DC    XL16'00000000000000000000000000000010D'   V1 source
00003B9C  00000000 0000010D
                                                   3408
                                                   3409          VRR_I VCVBG,3,0,0                               + SIGN - A
00003BA8                                           3410+         DS    0FD
00003BA8                         00003BA8          3411+         USING *,R5              base for test data and test routine
00003BA8  00003BE0                                 3412+T91      DC    A(X91)            address of test routine
00003BAC  005B                                     3413+         DC    H'91'             test number
00003BAE  00                                       3414+         DC    XL1'00'
00003BAF  03                                       3415+         DC    HL1'3'            &M3
00003BB0  00                                       3416+         DC    HL1'0'            &M4
00003BB1  00                                       3417+         DC    HL1'0'            cc
00003BB2  07                                       3418+         DC    HL1'7'            cc failed mask
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003BB3  E5C3E5C2 C7404040                        3419+         DC    CL8'VCVBG'        instruction name
00003BBC  00000010                                 3420+         DC    A(16)             result length
00003BC0  00003C04                                 3421+REA91    DC    A(RE91)           result address
00003BC8  00000000 00000000                        3422+         DS    FD                      gap
00003BD0  00000000 00000000                        3423+R1O91    DS    FD                R1 OUTPUT
00003BD8  00000000 00000000                        3424+         DS    FD                      gap
                                                   3425+*                                  INSTRUCTION UNDER TEST ROUTINE
00003BE0                                           3426+X91      DS    0F
00003BE0  E310 8EF0 0004                000010F0   3427+         LG    R1,R1FUDGE        pollute R1
00003BE6  E710 5064 0006                00003C0C   3428+         VL    V1,RE91+8         get V1 source
00003BEC  E611 0030 0052                           3429+         VCVBG R1,V1,3,0         test instruction
00003BF2  E310 5028 0024                00003BD0   3430+         STG   R1,R1O91          save
00003BF8  B98D 0020                                3431+         EPSW  R2,R0             exptract psw
00003BFC  5020 8EE4                     000010E4   3432+         ST    R2,CCPSW              to save CC
00003C00  07FB                                     3433+         BR    R11               return
00003C04                                           3434+RE91     DC    0F
00003C04                                           3435+         DROP  R5
00003C04  00000000 000000FF                        3436          DC    XL08'00000000000000FF'                    R1 result
00003C0C  00000000 00000000                        3437          DC    XL16'00000000000000000000000000000255A'   V1 source
00003C14  00000000 0000255A
                                                   3438
                                                   3439          VRR_I VCVBG,3,0,0                               - SIGN - B
00003C20                                           3440+         DS    0FD
00003C20                        00003C20           3441+         USING *,R5              base for test data and test routine
00003C20  00003C58                                 3442+T92      DC    A(X92)            address of test routine
00003C24  005C                                     3443+         DC    H'92'             test number
00003C26  00                                       3444+         DC    XL1'00'
00003C27  03                                       3445+         DC    HL1'3'            &M3
00003C28  00                                       3446+         DC    HL1'0'            &M4
00003C29  00                                       3447+         DC    HL1'0'            cc
00003C2A  07                                       3448+         DC    HL1'7'            cc failed mask
00003C2B  E5C3E5C2 C7404040                        3449+         DC    CL8'VCVBG'        instruction name
00003C34  00000010                                 3450+         DC    A(16)             result length
00003C38  00003C7C                                 3451+REA92    DC    A(RE92)           result address
00003C40  00000000 00000000                        3452+         DS    FD                      gap
00003C48  00000000 00000000                        3453+R1O92    DS    FD                R1 OUTPUT
00003C50  00000000 00000000                        3454+         DS    FD                      gap
                                                   3455+*                                  INSTRUCTION UNDER TEST ROUTINE
00003C58                                           3456+X92      DS    0F
00003C58  E310 8EF0 0004                000010F0   3457+         LG    R1,R1FUDGE        pollute R1
00003C5E  E710 5064 0006                00003C84   3458+         VL    V1,RE92+8         get V1 source
00003C64  E611 0030 0052                           3459+         VCVBG R1,V1,3,0         test instruction
00003C6A  E310 5028 0024                00003C48   3460+         STG   R1,R1O92          save
00003C70  B98D 0020                                3461+         EPSW  R2,R0             exptract psw
00003C74  5020 8EE4                     000010E4   3462+         ST    R2,CCPSW              to save CC
00003C78  07FB                                     3463+         BR    R11               return
00003C7C                                           3464+RE92     DC    0F
00003C7C                                           3465+         DROP  R5
00003C7C  00000000 000000FF                        3466          DC    XL08'00000000000000FF'                    R1 result
00003C84  00000000 00000000                        3467          DC    XL16'00000000000000000000000000000255B'   V1 source
00003C8C  00000000 0000255B
                                                   3468
                                                   3469          VRR_I VCVBG,3,0,0                               + SIGN - E
00003C98                                           3470+         DS    0FD
00003C98                        00003C98           3471+         USING *,R5              base for test data and test routine
00003C98  00003CD0                                 3472+T93      DC    A(X93)            address of test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003C9C  005D                                     3473+         DC    H'93'              test number
00003C9E  00                                       3474+         DC    XL1'00'
00003C9F  03                                       3475+         DC    HL1'3'             &M3
00003CA0  00                                       3476+         DC    HL1'0'             &M4
00003CA1  00                                       3477+         DC    HL1'0'             cc
00003CA2  07                                       3478+         DC    HL1'7'             cc failed mask
00003CA3  E5C3E5C2 C7404040                        3479+         DC    CL8'VCVBG'         instruction name
00003CAC  00000010                                 3480+         DC    A(16)              result length
00003CB0  00003CF4                                 3481+REA93    DC    A(RE93)            result address
00003CB8  00000000 00000000                        3482+         DS    FD                       gap
00003CC0  00000000 00000000                        3483+R1O93    DS    FD                 R1 OUTPUT
00003CC8  00000000 00000000                        3484+         DS    FD                       gap
                                                   3485+*                                   INSTRUCTION UNDER TEST ROUTINE
00003CD0                                           3486+X93      DS    0F
00003CD0  E310 8EF0 0004                 000010F0  3487+         LG    R1,R1FUDGE         pollute R1
00003CD6  E710 5064 0006                 00003CFC  3488+         VL    V1,RE93+8          get V1 source
00003CDC  E611 0030 0052                           3489+         VCVBG R1,V1,3,0          test instruction
00003CE2  E310 5028 0024                 00003CC0  3490+         STG   R1,R1O93           save
00003CE8  B98D 0020                                3491+         EPSW  R2,R0              exptract psw
00003CEC  5020 8EE4                      000010E4  3492+         ST    R2,CCPSW               to save CC
00003CF0  07FB                                     3493+         BR    R11                return
00003CF4                                           3494+RE93     DC    0F
00003CF4                                           3495+         DROP  R5
00003CF4  00000000 000000FF                        3496          DC    XL08'00000000000000FF'                    R1 result
00003CFC  00000000 00000000                        3497          DC    XL16'00000000000000000000000000000255E'   V1 source
00003D04  00000000 0000255E
                                                   3498
                                                   3499          VRR_I VCVBG,3,0,0                                + SIGN - F
00003D10                                           3500+         DS    0FD
00003D10                         00003D10          3501+         USING *,R5               base for test data and test routine
00003D10  00003D48                                 3502+T94      DC    A(X94)             address of test routine
00003D14  005E                                     3503+         DC    H'94'              test number
00003D16  00                                       3504+         DC    XL1'00'
00003D17  03                                       3505+         DC    HL1'3'             &M3
00003D18  00                                       3506+         DC    HL1'0'             &M4
00003D19  00                                       3507+         DC    HL1'0'             cc
00003D1A  07                                       3508+         DC    HL1'7'             cc failed mask
00003D1B  E5C3E5C2 C7404040                        3509+         DC    CL8'VCVBG'         instruction name
00003D24  00000010                                 3510+         DC    A(16)              result length
00003D28  00003D6C                                 3511+REA94    DC    A(RE94)            result address
00003D30  00000000 00000000                        3512+         DS    FD                       gap
00003D38  00000000 00000000                        3513+R1O94    DS    FD                 R1 OUTPUT
00003D40  00000000 00000000                        3514+         DS    FD                       gap
                                                   3515+*                                   INSTRUCTION UNDER TEST ROUTINE
00003D48                                           3516+X94      DS    0F
00003D48  E310 8EF0 0004                 000010F0  3517+         LG    R1,R1FUDGE         pollute R1
00003D4E  E710 5064 0006                 00003D74  3518+         VL    V1,RE94+8          get V1 source
00003D54  E611 0030 0052                           3519+         VCVBG R1,V1,3,0          test instruction
00003D5A  E310 5028 0024                 00003D38  3520+         STG   R1,R1O94           save
00003D60  B98D 0020                                3521+         EPSW  R2,R0              exptract psw
00003D64  5020 8EE4                      000010E4  3522+         ST    R2,CCPSW               to save CC
00003D68  07FB                                     3523+         BR    R11                return
00003D6C                                           3524+RE94     DC    0F
00003D6C                                           3525+         DROP  R5
00003D6C  00000000 000000FF                        3526          DC    XL08'00000000000000FF'                    R1 result
00003D74  00000000 00000000                        3527          DC    XL16'00000000000000000000000000000255F'   V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003D7C  00000000 0000255F
                                                   3528
                                                   3529          VRR_I VCVBG,3,0,0
00003D88                                           3530+         DS    0FD
00003D88                     00003D88              3531+         USING *,R5              base for test data and test routine
00003D88  00003DC0                                 3532+T95      DC    A(X95)            address of test routine
00003D8C  005F                                     3533+         DC    H'95'             test number
00003D8E  00                                       3534+         DC    XL1'00'
00003D8F  03                                       3535+         DC    HL1'3'            &M3
00003D90  00                                       3536+         DC    HL1'0'            &M4
00003D91  00                                       3537+         DC    HL1'0'            cc
00003D92  07                                       3538+         DC    HL1'7'            cc failed mask
00003D93  E5C3E5C2 C7404040                        3539+         DC    CL8'VCVBG'        instruction name
00003D9C  00000010                                 3540+         DC    A(16)             result length
00003DA0  00003DE4                                 3541+REA95    DC    A(RE95)           result address
00003DA8  00000000 00000000                        3542+         DS    FD                      gap
00003DB0  00000000 00000000                        3543+R1O95    DS    FD                R1 OUTPUT
00003DB8  00000000 00000000                        3544+         DS    FD                      gap
                                                   3545+*                                  INSTRUCTION UNDER TEST ROUTINE
00003DC0                                           3546+X95      DS    0F
00003DC0  E310 8EF0 0004                000010F0   3547+         LG    R1,R1FUDGE        pollute R1
00003DC6  E710 5064 0006                00003DEC   3548+         VL    V1,RE95+8         get V1 source
00003DCC  E611 0030 0052                           3549+         VCVBG R1,V1,3,0         test instruction
00003DD2  E310 5028 0024                00003DB0   3550+         STG   R1,R1O95          save
00003DD8  B98D 0020                                3551+         EPSW  R2,R0             exptract psw
00003DDC  5020 8EE4                     000010E4   3552+         ST    R2,CCPSW              to save CC
00003DE0  07FB                                     3553+         BR    R11               return
00003DE4                                           3554+RE95     DC    0F
00003DE4                                           3555+         DROP  R5
00003DE4  00000000 0008A160                        3556          DC    XL08'000000000008A160'                    R1 result
00003DEC  00000000 00000000                        3557          DC    XL16'00000000000000000000000000565600C'   V1 source
00003DF4  00000000 0565600C
                                                   3558
                                                   3559          VRR_I VCVBG,3,0,0
00003E00                                           3560+         DS    0FD
00003E00                     00003E00              3561+         USING *,R5              base for test data and test routine
00003E00  00003E38                                 3562+T96      DC    A(X96)            address of test routine
00003E04  0060                                     3563+         DC    H'96'             test number
00003E06  00                                       3564+         DC    XL1'00'
00003E07  03                                       3565+         DC    HL1'3'            &M3
00003E08  00                                       3566+         DC    HL1'0'            &M4
00003E09  00                                       3567+         DC    HL1'0'            cc
00003E0A  07                                       3568+         DC    HL1'7'            cc failed mask
00003E0B  E5C3E5C2 C7404040                        3569+         DC    CL8'VCVBG'        instruction name
00003E14  00000010                                 3570+         DC    A(16)             result length
00003E18  00003E5C                                 3571+REA96    DC    A(RE96)           result address
00003E20  00000000 00000000                        3572+         DS    FD                      gap
00003E28  00000000 00000000                        3573+R1O96    DS    FD                R1 OUTPUT
00003E30  00000000 00000000                        3574+         DS    FD                      gap
                                                   3575+*                                  INSTRUCTION UNDER TEST ROUTINE
00003E38                                           3576+X96      DS    0F
00003E38  E310 8EF0 0004                000010F0   3577+         LG    R1,R1FUDGE        pollute R1
00003E3E  E710 5064 0006                00003E64   3578+         VL    V1,RE96+8         get V1 source
00003E44  E611 0030 0052                           3579+         VCVBG R1,V1,3,0         test instruction
00003E4A  E310 5028 0024                00003E28   3580+         STG   R1,R1O96          save
00003E50  B98D 0020                                3581+         EPSW  R2,R0             exptract psw
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003E54  5020 8EE4                     000010E4  3582+         ST    R2,CCPSW              to save CC
00003E58  07FB                                    3583+         BR    R11                 return
00003E5C                                          3584+RE96     DC    0F
00003E5C                                          3585+         DROP  R5
00003E5C  00000000 0008A160                       3586          DC    XL08'000000000008A160'                    R1 result
00003E64  00000000 00000000                       3587          DC    XL16'00000000000000000000000000565600D'   V1 source
00003E6C  00000000 0565600D
                                                  3588
                                                  3589          VRR_I VCVBG,3,0,0                               INT_MAX
00003E78                                          3590+         DS    0FD
00003E78                        00003E78          3591+         USING *,R5                base for test data and test routine
00003E78  00003EB0                                3592+T97      DC    A(X97)              address of test routine
00003E7C  0061                                    3593+         DC    H'97'               test number
00003E7E  00                                      3594+         DC    XL1'00'
00003E7F  03                                      3595+         DC    HL1'3'              &M3
00003E80  00                                      3596+         DC    HL1'0'              &M4
00003E81  00                                      3597+         DC    HL1'0'              cc
00003E82  07                                      3598+         DC    HL1'7'              cc failed mask
00003E83  E5C3E5C2 C7404040                       3599+         DC    CL8'VCVBG'          instruction name
00003E8C  00000010                                3600+         DC    A(16)               result length
00003E90  00003ED4                                3601+REA97    DC    A(RE97)             result address
00003E98  00000000 00000000                       3602+         DS    FD                        gap
00003EA0  00000000 00000000                       3603+R1O97    DS    FD                  R1 OUTPUT
00003EA8  00000000 00000000                       3604+         DS    FD                        gap
                                                  3605+*                                  INSTRUCTION UNDER TEST ROUTINE
00003EB0                                          3606+X97      DS    0F
00003EB0  E310 8EF0 0004                 000010F0 3607+         LG    R1,R1FUDGE          pollute R1
00003EB6  E710 5064 0006                 00003EDC 3608+         VL    V1,RE97+8           get V1 source
00003EBC  E611 0030 0052                          3609+         VCVBG R1,V1,3,0           test instruction
00003EC2  E310 5028 0024                 00003EA0 3610+         STG   R1,R1O97            save
00003EC8  B98D 0020                               3611+         EPSW  R2,R0               exptract psw
00003ECC  5020 8EE4                      000010E4 3612+         ST    R2,CCPSW              to save CC
00003ED0  07FB                                    3613+         BR    R11                 return
00003ED4                                          3614+RE97     DC    0F
00003ED4                                          3615+         DROP  R5
00003ED4  00000000 7FFFFFFF                       3616          DC    XL08'000000007FFFFFFF'                    R1 result
00003EDC  00000000 00000000                       3617          DC    XL16'00000000000000000000002147483647C'   V1 source
00003EE4  00000214 7483647C
                                                  3618
                                                  3619          VRR_I VCVBG,3,0,0                               INT_MIN
00003EF0                                          3620+         DS    0FD
00003EF0                        00003EF0          3621+         USING *,R5                base for test data and test routine
00003EF0  00003F28                                3622+T98      DC    A(X98)              address of test routine
00003EF4  0062                                    3623+         DC    H'98'               test number
00003EF6  00                                      3624+         DC    XL1'00'
00003EF7  03                                      3625+         DC    HL1'3'              &M3
00003EF8  00                                      3626+         DC    HL1'0'              &M4
00003EF9  00                                      3627+         DC    HL1'0'              cc
00003EFA  07                                      3628+         DC    HL1'7'              cc failed mask
00003EFB  E5C3E5C2 C7404040                       3629+         DC    CL8'VCVBG'          instruction name
00003F04  00000010                                3630+         DC    A(16)               result length
00003F08  00003F4C                                3631+REA98    DC    A(RE98)             result address
00003F10  00000000 00000000                       3632+         DS    FD                        gap
00003F18  00000000 00000000                       3633+R1O98    DS    FD                  R1 OUTPUT
00003F20  00000000 00000000                       3634+         DS    FD                        gap
                                                  3635+*                                  INSTRUCTION UNDER TEST ROUTINE
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003F28                                           3636+X98      DS    0F
00003F28  E310 8EF0 0004                 000010F0  3637+         LG    R1,R1FUDGE        pollute R1
00003F2E  E710 5064 0006                 00003F54  3638+         VL    V1,RE98+8         get V1 source
00003F34  E611 0030 0052                           3639+         VCVBG R1,V1,3,0         test instruction
00003F3A  E310 5028 0024                 00003F18  3640+         STG   R1,R1O98          save
00003F40  B98D 0020                                3641+         EPSW  R2,R0             exptract psw
00003F44  5020 8EE4                      000010E4  3642+         ST    R2,CCPSW              to save CC
00003F48  07FB                                     3643+         BR    R11               return
00003F4C                                           3644+RE98     DC    0F
00003F4C                                           3645+         DROP  R5
00003F4C  00000000 80000000                        3646          DC    XL08'0000000080000000'                    R1 result
00003F54  00000000 00000000                        3647          DC    XL16'00000000000000000000002147483648D'   V1 source
00003F5C  00000214 7483648D
                                                   3648
                                                   3649          VRR_I VCVBG,3,0,0                               UINT_MAX
00003F68                                           3650+         DS    0FD
00003F68                         00003F68          3651+         USING *,R5              base for test data and test routine
00003F68  00003FA0                                 3652+T99      DC    A(X99)            address of test routine
00003F6C  0063                                     3653+         DC    H'99'             test number
00003F6E  00                                       3654+         DC    XL1'00'
00003F6F  03                                       3655+         DC    HL1'3'            &M3
00003F70  00                                       3656+         DC    HL1'0'            &M4
00003F71  00                                       3657+         DC    HL1'0'            cc
00003F72  07                                       3658+         DC    HL1'7'            cc failed mask
00003F73  E5C3E5C2 C7404040                        3659+         DC    CL8'VCVBG'        instruction name
00003F7C  00000010                                 3660+         DC    A(16)             result length
00003F80  00003FC4                                 3661+REA99    DC    A(RE99)           result address
00003F88  00000000 00000000                        3662+         DS    FD                      gap
00003F90  00000000 00000000                        3663+R1O99    DS    FD                R1 OUTPUT
00003F98  00000000 00000000                        3664+         DS    FD                      gap
                                                   3665+*                                  INSTRUCTION UNDER TEST ROUTINE
00003FA0                                           3666+X99      DS    0F
00003FA0  E310 8EF0 0004                 000010F0  3667+         LG    R1,R1FUDGE        pollute R1
00003FA6  E710 5064 0006                 00003FCC  3668+         VL    V1,RE99+8         get V1 source
00003FAC  E611 0030 0052                           3669+         VCVBG R1,V1,3,0         test instruction
00003FB2  E310 5028 0024                 00003F90  3670+         STG   R1,R1O99          save
00003FB8  B98D 0020                                3671+         EPSW  R2,R0             exptract psw
00003FBC  5020 8EE4                      000010E4  3672+         ST    R2,CCPSW              to save CC
00003FC0  07FB                                     3673+         BR    R11               return
00003FC4                                           3674+RE99     DC    0F
00003FC4                                           3675+         DROP  R5
00003FC4  00000000 FFFFFFFF                        3676          DC    XL08'00000000FFFFFFFF'                    R1 result
00003FCC  00000000 00000000                        3677          DC    XL16'00000000000000000000004294967295C'   V1 source
00003FD4  00000429 4967295C
                                                   3678
                                                   3679          VRR_I VCVBG,3,0,0                               UINT_MAX +1
00003FE0                                           3680+         DS    0FD
00003FE0                         00003FE0          3681+         USING *,R5              base for test data and test routine
00003FE0  00004018                                 3682+T100     DC    A(X100)           address of test routine
00003FE4  0064                                     3683+         DC    H'100'            test number
00003FE6  00                                       3684+         DC    XL1'00'
00003FE7  03                                       3685+         DC    HL1'3'            &M3
00003FE8  00                                       3686+         DC    HL1'0'            &M4
00003FE9  00                                       3687+         DC    HL1'0'            cc
00003FEA  07                                       3688+         DC    HL1'7'            cc failed mask
00003FEB  E5C3E5C2 C7404040                        3689+         DC    CL8'VCVBG'        instruction name
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00003FF4  00000010                                 3690+         DC    A(16)              result length
00003FF8  0000403C                                 3691+REA100   DC    A(RE100)           result address
00004000  00000000 00000000                        3692+         DS    FD                       gap
00004008  00000000 00000000                        3693+R1O100   DS    FD                 R1 OUTPUT
00004010  00000000 00000000                        3694+         DS    FD                       gap
                                                   3695+*                                 INSTRUCTION UNDER TEST ROUTINE
00004018                                           3696+X100     DS    0F
00004018  E310 8EF0 0004                 000010F0  3697+         LG    R1,R1FUDGE         pollute R1
0000401E  E710 5064 0006                 00004044  3698+         VL    V1,RE100+8         get V1 source
00004024  E611 0030 0052                           3699+         VCVBG R1,V1,3,0          test instruction
0000402A  E310 5028 0024                 00004008  3700+         STG   R1,R1O100          save
00004030  B98D 0020                                3701+         EPSW  R2,R0              exptract psw
00004034  5020 8EE4                      000010E4  3702+         ST    R2,CCPSW               to save CC
00004038  07FB                                     3703+         BR    R11                return
0000403C                                           3704+RE100    DC    0F
0000403C                                           3705+         DROP  R5
0000403C  00000001 00000000                        3706          DC    XL08'0000000100000000'                    R1 result
00004044  00000000 00000000                        3707          DC    XL16'00000000000000000000004294967296C'   V1 source
0000404C  00000429 4967296C
                                                   3708
                                                   3709          VRR_I VCVBG,3,0,0
00004058                                           3710+         DS    0FD
00004058                       00004058            3711+         USING *,R5               base for test data and test routine
00004058  00004090                                 3712+T101     DC    A(X101)            address of test routine
0000405C  0065                                     3713+         DC    H'101'             test number
0000405E  00                                       3714+         DC    XL1'00'
0000405F  03                                       3715+         DC    HL1'3'             &M3
00004060  00                                       3716+         DC    HL1'0'             &M4
00004061  00                                       3717+         DC    HL1'0'             cc
00004062  07                                       3718+         DC    HL1'7'             cc failed mask
00004063  E5C3E5C2 C7404040                        3719+         DC    CL8'VCVBG'         instruction name
0000406C  00000010                                 3720+         DC    A(16)              result length
00004070  000040B4                                 3721+REA101   DC    A(RE101)           result address
00004078  00000000 00000000                        3722+         DS    FD                       gap
00004080  00000000 00000000                        3723+R1O101   DS    FD                 R1 OUTPUT
00004088  00000000 00000000                        3724+         DS    FD                       gap
                                                   3725+*                                 INSTRUCTION UNDER TEST ROUTINE
00004090                                           3726+X101     DS    0F
00004090  E310 8EF0 0004                 000010F0  3727+         LG    R1,R1FUDGE         pollute R1
00004096  E710 5064 0006                 000040BC  3728+         VL    V1,RE101+8         get V1 source
0000409C  E611 0030 0052                           3729+         VCVBG R1,V1,3,0          test instruction
000040A2  E310 5028 0024                 00004080  3730+         STG   R1,R1O101          save
000040A8  B98D 0020                                3731+         EPSW  R2,R0              exptract psw
000040AC  5020 8EE4                      000010E4  3732+         ST    R2,CCPSW               to save CC
000040B0  07FB                                     3733+         BR    R11                return
000040B4                                           3734+RE101    DC    0F
000040B4                                           3735+         DROP  R5
000040B4  00000002 DF8E1660                        3736          DC    XL08'00000002DF8E1660'                    R1 result
000040BC  00000000 00000000                        3737          DC    XL16'00000000000000000000012340565600C'   V1 source
000040C4  00001234 0565600C
                                                   3738
                                                   3739          VRR_I VCVBG,3,0,0                               LONG_MAX
000040D0                                           3740+         DS    0FD
000040D0                       000040D0            3741+         USING *,R5               base for test data and test routine
000040D0  00004108                                 3742+T102     DC    A(X102)            address of test routine
000040D4  0066                                     3743+         DC    H'102'             test number
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000040D6  00                                       3744+          DC    XL1'00'
000040D7  03                                       3745+          DC    HL1'3'            &M3
000040D8  00                                       3746+          DC    HL1'0'            &M4
000040D9  00                                       3747+          DC    HL1'0'            cc
000040DA  07                                       3748+          DC    HL1'7'            cc failed mask
000040DB  E5C3E5C2 C7404040                        3749+          DC    CL8'VCVBG'        instruction name
000040E4  00000010                                 3750+          DC    A(16)             result length
000040E8  0000412C                                 3751+REA102    DC    A(RE102)          result address
000040F0  00000000 00000000                        3752+          DS    FD                      gap
000040F8  00000000 00000000                        3753+R1O102    DS    FD                R1 OUTPUT
00004100  00000000 00000000                        3754+          DS    FD                      gap
                                                   3755+*                                 INSTRUCTION UNDER TEST ROUTINE
00004108                                           3756+X102      DS    0F
00004108  E310 8EF0 0004                 000010F0  3757+          LG    R1,R1FUDGE        pollute R1
0000410E  E710 5064 0006                 00004134  3758+          VL    V1,RE102+8        get V1 source
00004114  E611 0030 0052                           3759+          VCVBG R1,V1,3,0         test instruction
0000411A  E310 5028 0024                 000040F8  3760+          STG   R1,R1O102         save
00004120  B98D 0020                                3761+          EPSW  R2,R0             exptract psw
00004124  5020 8EE4                      000010E4  3762+          ST    R2,CCPSW              to save CC
00004128  07FB                                     3763+          BR    R11               return
0000412C                                           3764+RE102     DC    0F
0000412C                                           3765+          DROP  R5
0000412C  7FFFFFFF FFFFFFFF                        3766           DC    XL08'7FFFFFFFFFFFFFFF'                    R1 result
00004134  00000000 00009223                        3767           DC    XL16'00000000000092233720368547758 07C'   V1 source
0000413C  37203685 4775807C
                                                   3768
                                                   3769           VRR_I VCVBG,3,0,0                               LONG_MIN
00004148                                           3770+          DS    0FD
00004148                         00004148          3771+          USING *,R5              base for test data and test routine
00004148  00004180                                 3772+T103      DC    A(X103)           address of test routine
0000414C  0067                                     3773+          DC    H'103'            test number
0000414E  00                                       3774+          DC    XL1'00'
0000414F  03                                       3775+          DC    HL1'3'            &M3
00004150  00                                       3776+          DC    HL1'0'            &M4
00004151  00                                       3777+          DC    HL1'0'            cc
00004152  07                                       3778+          DC    HL1'7'            cc failed mask
00004153  E5C3E5C2 C7404040                        3779+          DC    CL8'VCVBG'        instruction name
0000415C  00000010                                 3780+          DC    A(16)             result length
00004160  000041A4                                 3781+REA103    DC    A(RE103)          result address
00004168  00000000 00000000                        3782+          DS    FD                      gap
00004170  00000000 00000000                        3783+R1O103    DS    FD                R1 OUTPUT
00004178  00000000 00000000                        3784+          DS    FD                      gap
                                                   3785+*                                 INSTRUCTION UNDER TEST ROUTINE
00004180                                           3786+X103      DS    0F
00004180  E310 8EF0 0004                 000010F0  3787+          LG    R1,R1FUDGE        pollute R1
00004186  E710 5064 0006                 000041AC  3788+          VL    V1,RE103+8        get V1 source
0000418C  E611 0030 0052                           3789+          VCVBG R1,V1,3,0         test instruction
00004192  E310 5028 0024                 00004170  3790+          STG   R1,R1O103         save
00004198  B98D 0020                                3791+          EPSW  R2,R0             exptract psw
0000419C  5020 8EE4                      000010E4  3792+          ST    R2,CCPSW              to save CC
000041A0  07FB                                     3793+          BR    R11               return
000041A4                                           3794+RE103     DC    0F
000041A4                                           3795+          DROP  R5
000041A4  80000000 00000000                        3796           DC    XL08'8000000000000000'                    R1 result
000041AC  00000000 00009223                        3797           DC    XL16'00000000000092233720368547758 08D'   V1 source
000041B4  37203685 4775808D
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   3798
                                                   3799          VRR_I VCVBG,3,0,0                              LONG_MIN-1
000041C0                                           3800+         DS    0FD
000041C0                     000041C0              3801+         USING *,R5              base for test data and test routine
000041C0  000041F8                                 3802+T104     DC    A(X104)           address of test routine
000041C4  0068                                     3803+         DC    H'104'            test number
000041C6  00                                       3804+         DC    XL1'00'
000041C7  03                                       3805+         DC    HL1'3'            &M3
000041C8  00                                       3806+         DC    HL1'0'            &M4
000041C9  00                                       3807+         DC    HL1'0'            cc
000041CA  07                                       3808+         DC    HL1'7'            cc failed mask
000041CB  E5C3E5C2 C7404040                        3809+         DC    CL8'VCVBG'        instruction name
000041D4  00000010                                 3810+         DC    A(16)             result length
000041D8  0000421C                                 3811+REA104   DC    A(RE104)          result address
000041E0  00000000 00000000                        3812+         DS    FD                      gap
000041E8  00000000 00000000                        3813+R1O104   DS    FD                R1 OUTPUT
000041F0  00000000 00000000                        3814+         DS    FD                      gap
                                                   3815+*                                  INSTRUCTION UNDER TEST ROUTINE
000041F8                                           3816+X104     DS    0F
000041F8  E310 8EF0 0004                000010F0   3817+         LG    R1,R1FUDGE        pollute R1
000041FE  E710 5064 0006                00004224   3818+         VL    V1,RE104+8        get V1 source
00004204  E611 0030 0052                           3819+         VCVBG R1,V1,3,0         test instruction
0000420A  E310 5028 0024                000041E8   3820+         STG   R1,R1O104         save
00004210  B98D 0020                                3821+         EPSW  R2,R0             exptract psw
00004214  5020 8EE4                     000010E4   3822+         ST    R2,CCPSW              to save CC
00004218  07FB                                     3823+         BR    R11               return
0000421C                                           3824+RE104    DC    0F
0000421C                                           3825+         DROP  R5
0000421C  80000000 00000001                        3826          DC    XL08'8000000000000001'                   R1 result
00004224  00000000 00009223                        3827          DC    XL16'00000000000092233720368547758 09D'  V1 source
0000422C  37203685 4775809D
                                                   3828
                                                   3829 * VCVBG  m3=3 (p2=0, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                   3830 *        cc=3 (overflow)
                                                   3831          VRR_I VCVBG,3,0,3                              ULONG_MAX +1
00004238                                           3832+         DS    0FD
00004238                     00004238              3833+         USING *,R5              base for test data and test routine
00004238  00004270                                 3834+T105     DC    A(X105)           address of test routine
0000423C  0069                                     3835+         DC    H'105'            test number
0000423E  00                                       3836+         DC    XL1'00'
0000423F  03                                       3837+         DC    HL1'3'            &M3
00004240  00                                       3838+         DC    HL1'0'            &M4
00004241  03                                       3839+         DC    HL1'3'            cc
00004242  0E                                       3840+         DC    HL1'14'           cc failed mask
00004243  E5C3E5C2 C7404040                        3841+         DC    CL8'VCVBG'        instruction name
0000424C  00000010                                 3842+         DC    A(16)             result length
00004250  00004294                                 3843+REA105   DC    A(RE105)          result address
00004258  00000000 00000000                        3844+         DS    FD                      gap
00004260  00000000 00000000                        3845+R1O105   DS    FD                R1 OUTPUT
00004268  00000000 00000000                        3846+         DS    FD                      gap
                                                   3847+*                                  INSTRUCTION UNDER TEST ROUTINE
00004270                                           3848+X105     DS    0F
00004270  E310 8EF0 0004                000010F0   3849+         LG    R1,R1FUDGE        pollute R1
00004276  E710 5064 0006                0000429C   3850+         VL    V1,RE105+8        get V1 source
0000427C  E611 0030 0052                           3851+         VCVBG R1,V1,3,0         test instruction
00004282  E310 5028 0024                00004260   3852+         STG   R1,R1O105         save
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004288  B98D 0020                               3853+         EPSW  R2,R0              exptract psw
0000428C  5020 8EE4                     000010E4  3854+         ST    R2,CCPSW              to save CC
00004290  07FB                                    3855+         BR    R11                return
00004294                                          3856+RE105    DC    0F
00004294                                          3857+         DROP  R5
00004294  00000000 00000000                       3858          DC    XL08'0000000000000000'                    R1 result
0000429C  00000000 00018446                       3859          DC    XL16'00000000000184467440737095516 16C'   V1 source
000042A4  74407370 9551616C
                                                  3860
                                                  3861          VRR_I VCVBG,3,0,3                               ULONG_MAX +11
000042B0                                          3862+         DS    0FD
000042B0                      000042B0            3863+         USING *,R5               base for test data and test routine
000042B0  000042E8                                3864+T106     DC    A(X106)            address of test routine
000042B4  006A                                    3865+         DC    H'106'             test number
000042B6  00                                      3866+         DC    XL1'00'
000042B7  03                                      3867+         DC    HL1'3'             &M3
000042B8  00                                      3868+         DC    HL1'0'             &M4
000042B9  03                                      3869+         DC    HL1'3'             cc
000042BA  0E                                      3870+         DC    HL1'14'            cc failed mask
000042BB  E5C3E5C2 C7404040                       3871+         DC    CL8'VCVBG'         instruction name
000042C4  00000010                                3872+         DC    A(16)              result length
000042C8  0000430C                                3873+REA106   DC    A(RE106)           result address
000042D0  00000000 00000000                       3874+         DS    FD                       gap
000042D8  00000000 00000000                       3875+R1O106   DS    FD                 R1 OUTPUT
000042E0  00000000 00000000                       3876+         DS    FD                       gap
                                                  3877+*                                 INSTRUCTION UNDER TEST ROUTINE
000042E8                                          3878+X106     DS    0F
000042E8  E310 8EF0 0004                000010F0  3879+         LG    R1,R1FUDGE         pollute R1
000042EE  E710 5064 0006                00004314  3880+         VL    V1,RE106+8         get V1 source
000042F4  E611 0030 0052                          3881+         VCVBG R1,V1,3,0          test instruction
000042FA  E310 5028 0024                000042D8  3882+         STG   R1,R1O106          save
00004300  B98D 0020                               3883+         EPSW  R2,R0              exptract psw
00004304  5020 8EE4                     000010E4  3884+         ST    R2,CCPSW              to save CC
00004308  07FB                                    3885+         BR    R11                return
0000430C                                          3886+RE106    DC    0F
0000430C                                          3887+         DROP  R5
0000430C  00000000 0000000A                       3888          DC    XL08'000000000000000A'                    R1 result
00004314  00000000 00018446                       3889          DC    XL16'00000000000184467440737095516 26C'   V1 source
0000431C  74407370 9551626C
                                                  3890
                                                  3891          VRR_I VCVBG,3,0,3                               -(ULONG_MAX +1)
00004328                                          3892+         DS    0FD
00004328                      00004328            3893+         USING *,R5               base for test data and test routine
00004328  00004360                                3894+T107     DC    A(X107)            address of test routine
0000432C  006B                                    3895+         DC    H'107'             test number
0000432E  00                                      3896+         DC    XL1'00'
0000432F  03                                      3897+         DC    HL1'3'             &M3
00004330  00                                      3898+         DC    HL1'0'             &M4
00004331  03                                      3899+         DC    HL1'3'             cc
00004332  0E                                      3900+         DC    HL1'14'            cc failed mask
00004333  E5C3E5C2 C7404040                       3901+         DC    CL8'VCVBG'         instruction name
0000433C  00000010                                3902+         DC    A(16)              result length
00004340  00004384                                3903+REA107   DC    A(RE107)           result address
00004348  00000000 00000000                       3904+         DS    FD                       gap
00004350  00000000 00000000                       3905+R1O107   DS    FD                 R1 OUTPUT
00004358  00000000 00000000                       3906+         DS    FD                       gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   3907+*                                INSTRUCTION UNDER TEST ROUTINE
00004360                                           3908+X107     DS    0F
00004360  E310 8EF0 0004                 000010F0  3909+         LG    R1,R1FUDGE        pollute R1
00004366  E710 5064 0006                 0000438C  3910+         VL    V1,RE107+8        get V1 source
0000436C  E611 0030 0052                           3911+         VCVBG R1,V1,3,0         test instruction
00004372  E310 5028 0024                 00004350  3912+         STG   R1,R1O107         save
00004378  B98D 0020                                3913+         EPSW  R2,R0             exptract psw
0000437C  5020 8EE4                      000010E4  3914+         ST    R2,CCPSW              to save CC
00004380  07FB                                     3915+         BR    R11               return
00004384                                           3916+RE107    DC    0F
00004384                                           3917+         DROP  R5
00004384  00000000 00000000                        3918          DC    XL08'0000000000000000'                    R1 result
0000438C  00000000 00018446                        3919          DC    XL16'00000000000184467440737095516 16D'   V1 source
00004394  74407370 9551616D
                                                   3920
                                                   3921          VRR_I VCVBG,3,0,3                               -(ULONG_MAX +11)
000043A0                                           3922+         DS    0FD
000043A0                         000043A0          3923+         USING *,R5              base for test data and test routine
000043A0  000043D8                                 3924+T108     DC    A(X108)           address of test routine
000043A4  006C                                     3925+         DC    H'108'            test number
000043A6  00                                       3926+         DC    XL1'00'
000043A7  03                                       3927+         DC    HL1'3'            &M3
000043A8  00                                       3928+         DC    HL1'0'            &M4
000043A9  03                                       3929+         DC    HL1'3'            cc
000043AA  0E                                       3930+         DC    HL1'14'           cc failed mask
000043AB  E5C3E5C2 C7404040                        3931+         DC    CL8'VCVBG'        instruction name
000043B4  00000010                                 3932+         DC    A(16)             result length
000043B8  000043FC                                 3933+REA108   DC    A(RE108)          result address
000043C0  00000000 00000000                        3934+         DS    FD                      gap
000043C8  00000000 00000000                        3935+R1O108   DS    FD                R1 OUTPUT
000043D0  00000000 00000000                        3936+         DS    FD                      gap
                                                   3937+*                                INSTRUCTION UNDER TEST ROUTINE
000043D8                                           3938+X108     DS    0F
000043D8  E310 8EF0 0004                 000010F0  3939+         LG    R1,R1FUDGE        pollute R1
000043DE  E710 5064 0006                 00004404  3940+         VL    V1,RE108+8        get V1 source
000043E4  E611 0030 0052                           3941+         VCVBG R1,V1,3,0         test instruction
000043EA  E310 5028 0024                 000043C8  3942+         STG   R1,R1O108         save
000043F0  B98D 0020                                3943+         EPSW  R2,R0             exptract psw
000043F4  5020 8EE4                      000010E4  3944+         ST    R2,CCPSW              to save CC
000043F8  07FB                                     3945+         BR    R11               return
000043FC                                           3946+RE108    DC    0F
000043FC                                           3947+         DROP  R5
000043FC  00000000 0000000A                        3948          DC    XL08'000000000000000A'                    R1 result
00004404  00000000 00018446                        3949          DC    XL16'00000000000184467440737095516 26D'   V1 source
0000440C  74407370 9551626D
                                                   3950
                                                   3951 * VCVBG  m3=3 (p2=0, lb=1, cs=1)       m4=4 (iom=0, orc=1)
                                                   3952 *        cc=3 (overflow)
                                                   3953          VRR_I VCVBG,3,4,3                               ULONG_MAX +1
00004418                                           3954+         DS    0FD
00004418                         00004418          3955+         USING *,R5              base for test data and test routine
00004418  00004450                                 3956+T109     DC    A(X109)           address of test routine
0000441C  006D                                     3957+         DC    H'109'            test number
0000441E  00                                       3958+         DC    XL1'00'
0000441F  03                                       3959+         DC    HL1'3'            &M3
00004420  04                                       3960+         DC    HL1'4'            &M4
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004421  03                                      3961+         DC    HL1'3'            cc
00004422  0E                                      3962+         DC    HL1'14'           cc failed mask
00004423  E5C3E5C2 C7404040                       3963+         DC    CL8'VCVBG'        instruction name
0000442C  00000010                                3964+         DC    A(16)             result length
00004430  00004474                                3965+REA109   DC    A(RE109)          result address
00004438  00000000 00000000                       3966+         DS    FD                      gap
00004440  00000000 00000000                       3967+R1O109   DS    FD                R1 OUTPUT
00004448  00000000 00000000                       3968+         DS    FD                      gap
                                                  3969+*                                  INSTRUCTION UNDER TEST ROUTINE
00004450                                          3970+X109     DS    0F
00004450  E310 8EF0 0004                000010F0  3971+         LG    R1,R1FUDGE        pollute R1
00004456  E710 5064 0006                0000447C  3972+         VL    V1,RE109+8        get V1 source
0000445C  E611 0034 0052                          3973+         VCVBG R1,V1,3,4         test instruction
00004462  E310 5028 0024                00004440  3974+         STG   R1,R1O109         save
00004468  B98D 0020                               3975+         EPSW  R2,R0             exptract psw
0000446C  5020 8EE4                     000010E4  3976+         ST    R2,CCPSW              to save CC
00004470  07FB                                    3977+         BR    R11               return
00004474                                          3978+RE109    DC    0F
00004474                                          3979+         DROP  R5
00004474  00000000 00000000                       3980          DC    XL08'0000000000000000'                    R1 result
0000447C  00000000 00018446                       3981          DC    XL16'00000000000184467440737095516 16C'   V1 source
00004484  74407370 9551616C
                                                  3982
                                                  3983          VRR_I VCVBG,3,4,3                               ULONG_MAX +11
00004490                                          3984+         DS    0FD
00004490                        00004490          3985+         USING *,R5              base for test data and test routine
00004490  000044C8                                3986+T110     DC    A(X110)           address of test routine
00004494  006E                                    3987+         DC    H'110'            test number
00004496  00                                      3988+         DC    XL1'00'
00004497  03                                      3989+         DC    HL1'3'            &M3
00004498  04                                      3990+         DC    HL1'4'            &M4
00004499  03                                      3991+         DC    HL1'3'            cc
0000449A  0E                                      3992+         DC    HL1'14'           cc failed mask
0000449B  E5C3E5C2 C7404040                       3993+         DC    CL8'VCVBG'        instruction name
000044A4  00000010                                3994+         DC    A(16)             result length
000044A8  000044EC                                3995+REA110   DC    A(RE110)          result address
000044B0  00000000 00000000                       3996+         DS    FD                      gap
000044B8  00000000 00000000                       3997+R1O110   DS    FD                R1 OUTPUT
000044C0  00000000 00000000                       3998+         DS    FD                      gap
                                                  3999+*                                  INSTRUCTION UNDER TEST ROUTINE
000044C8                                          4000+X110     DS    0F
000044C8  E310 8EF0 0004                000010F0  4001+         LG    R1,R1FUDGE        pollute R1
000044CE  E710 5064 0006                000044F4  4002+         VL    V1,RE110+8        get V1 source
000044D4  E611 0034 0052                          4003+         VCVBG R1,V1,3,4         test instruction
000044DA  E310 5028 0024                000044B8  4004+         STG   R1,R1O110         save
000044E0  B98D 0020                               4005+         EPSW  R2,R0             exptract psw
000044E4  5020 8EE4                     000010E4  4006+         ST    R2,CCPSW              to save CC
000044E8  07FB                                    4007+         BR    R11               return
000044EC                                          4008+RE110    DC    0F
000044EC                                          4009+         DROP  R5
000044EC  00000000 00000000                       4010          DC    XL08'0000000000000000'                    R1 result
000044F4  00000000 00018446                       4011          DC    XL16'00000000000184467440737095516 26C'   V1 source
000044FC  74407370 9551626C
                                                  4012
                                                  4013          VRR_I VCVBG,3,4,3                              -(ULONG_MAX +1)
00004508                                          4014+         DS    0FD
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004508                     00004508             4015+         USING *,R5              base for test data and test routine
00004508  00004540                                4016+T111     DC    A(X111)           address of test routine
0000450C  006F                                    4017+         DC    H'111'            test number
0000450E  00                                      4018+         DC    XL1'00'
0000450F  03                                      4019+         DC    HL1'3'            &M3
00004510  04                                      4020+         DC    HL1'4'            &M4
00004511  03                                      4021+         DC    HL1'3'            cc
00004512  0E                                      4022+         DC    HL1'14'           cc failed mask
00004513  E5C3E5C2 C7404040                       4023+         DC    CL8'VCVBG'        instruction name
0000451C  00000010                                4024+         DC    A(16)             result length
00004520  00004564                                4025+REA111   DC    A(RE111)          result address
00004528  00000000 00000000                       4026+         DS    FD                      gap
00004530  00000000 00000000                       4027+R1O111   DS    FD                R1 OUTPUT
00004538  00000000 00000000                       4028+         DS    FD                      gap
                                                  4029+*                                  INSTRUCTION UNDER TEST ROUTINE
00004540                                          4030+X111     DS    0F
00004540  E310 8EF0 0004                000010F0  4031+         LG    R1,R1FUDGE        pollute R1
00004546  E710 5064 0006                0000456C  4032+         VL    V1,RE111+8        get V1 source
0000454C  E611 0034 0052                          4033+         VCVBG R1,V1,3,4         test instruction
00004552  E310 5028 0024                00004530  4034+         STG   R1,R1O111         save
00004558  B98D 0020                               4035+         EPSW  R2,R0             exptract psw
0000455C  5020 8EE4                     000010E4  4036+         ST    R2,CCPSW              to save CC
00004560  07FB                                    4037+         BR    R11               return
00004564                                          4038+RE111    DC    0F
00004564                                          4039+         DROP  R5
00004564  00000000 00000000                       4040          DC    XL08'0000000000000000'                  R1 result
0000456C  00000000 00018446                       4041          DC    XL16'00000000000184467440737095516 16D'   V1 source
00004574  74407370 9551616D
                                                  4042
                                                  4043          VRR_I VCVBG,3,4,3                             -(ULONG_MAX +11)
00004580                                          4044+         DS    0FD
00004580                     00004580             4045+         USING *,R5              base for test data and test routine
00004580  000045B8                                4046+T112     DC    A(X112)           address of test routine
00004584  0070                                    4047+         DC    H'112'            test number
00004586  00                                      4048+         DC    XL1'00'
00004587  03                                      4049+         DC    HL1'3'            &M3
00004588  04                                      4050+         DC    HL1'4'            &M4
00004589  03                                      4051+         DC    HL1'3'            cc
0000458A  0E                                      4052+         DC    HL1'14'           cc failed mask
0000458B  E5C3E5C2 C7404040                       4053+         DC    CL8'VCVBG'        instruction name
00004594  00000010                                4054+         DC    A(16)             result length
00004598  000045DC                                4055+REA112   DC    A(RE112)          result address
000045A0  00000000 00000000                       4056+         DS    FD                      gap
000045A8  00000000 00000000                       4057+R1O112   DS    FD                R1 OUTPUT
000045B0  00000000 00000000                       4058+         DS    FD                      gap
                                                  4059+*                                  INSTRUCTION UNDER TEST ROUTINE
000045B8                                          4060+X112     DS    0F
000045B8  E310 8EF0 0004                000010F0  4061+         LG    R1,R1FUDGE        pollute R1
000045BE  E710 5064 0006                000045E4  4062+         VL    V1,RE112+8        get V1 source
000045C4  E611 0034 0052                          4063+         VCVBG R1,V1,3,4         test instruction
000045CA  E310 5028 0024                000045A8  4064+         STG   R1,R1O112         save
000045D0  B98D 0020                               4065+         EPSW  R2,R0             exptract psw
000045D4  5020 8EE4                     000010E4  4066+         ST    R2,CCPSW              to save CC
000045D8  07FB                                    4067+         BR    R11               return
000045DC                                          4068+RE112    DC    0F
000045DC                                          4069+         DROP  R5
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000045DC  00000000 00000000                        4070          DC    XL08'0000000000000000'                    R1 result
000045E4  00000000 00018446                        4071          DC    XL16'00000000000184467440737095516 26D'   V1 source
000045EC  74407370 9551626D
                                                   4072
                                                   4073 * VCVBG   m3=9 (p2=1, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                   4074 *        cc=0 (no overflow)
                                                   4075          VRR_I VCVBG,9,0,0
000045F8                                           4076+         DS    0FD
000045F8                      000045F8             4077+         USING *,R5              base for test data and test routine
000045F8  00004630                                 4078+T113     DC    A(X113)           address of test routine
000045FC  0071                                     4079+         DC    H'113'            test number
000045FE  00                                       4080+         DC    XL1'00'
000045FF  09                                       4081+         DC    HL1'9'            &M3
00004600  00                                       4082+         DC    HL1'0'            &M4
00004601  00                                       4083+         DC    HL1'0'            cc
00004602  07                                       4084+         DC    HL1'7'            cc failed mask
00004603  E5C3E5C2 C7404040                        4085+         DC    CL8'VCVBG'        instruction name
0000460C  00000010                                 4086+         DC    A(16)             result length
00004610  00004654                                 4087+REA113   DC    A(RE113)          result address
00004618  00000000 00000000                        4088+         DS    FD                      gap
00004620  00000000 00000000                        4089+R1O113   DS    FD                R1 OUTPUT
00004628  00000000 00000000                        4090+         DS    FD                      gap
                                                   4091+*                                  INSTRUCTION UNDER TEST ROUTINE
00004630                                           4092+X113     DS    0F
00004630  E310 8EF0 0004                000010F0   4093+         LG    R1,R1FUDGE        pollute R1
00004636  E710 5064 0006                0000465C   4094+         VL    V1,RE113+8        get V1 source
0000463C  E611 0090 0052                           4095+         VCVBG R1,V1,9,0         test instruction
00004642  E310 5028 0024                00004620   4096+         STG   R1,R1O113         save
00004648  B98D 0020                                4097+         EPSW  R2,R0             exptract psw
0000464C  5020 8EE4                     000010E4   4098+         ST    R2,CCPSW              to save CC
00004650  07FB                                     4099+         BR    R11               return
00004654                                           4100+RE113    DC    0F
00004654                                           4101+         DROP  R5
00004654  00000000 0000000A                        4102          DC    XL08'000000000000000A'                    R1 result
0000465C  00000000 00000000                        4103          DC    XL16'00000000000000000000000000000010C'   V1 source
00004664  00000000 0000010C
                                                   4104
                                                   4105          VRR_I VCVBG,9,0,0
00004670                                           4106+         DS    0FD
00004670                      00004670             4107+         USING *,R5              base for test data and test routine
00004670  000046A8                                 4108+T114     DC    A(X114)           address of test routine
00004674  0072                                     4109+         DC    H'114'            test number
00004676  00                                       4110+         DC    XL1'00'
00004677  09                                       4111+         DC    HL1'9'            &M3
00004678  00                                       4112+         DC    HL1'0'            &M4
00004679  00                                       4113+         DC    HL1'0'            cc
0000467A  07                                       4114+         DC    HL1'7'            cc failed mask
0000467B  E5C3E5C2 C7404040                        4115+         DC    CL8'VCVBG'        instruction name
00004684  00000010                                 4116+         DC    A(16)             result length
00004688  000046CC                                 4117+REA114   DC    A(RE114)          result address
00004690  00000000 00000000                        4118+         DS    FD                      gap
00004698  00000000 00000000                        4119+R1O114   DS    FD                R1 OUTPUT
000046A0  00000000 00000000                        4120+         DS    FD                      gap
                                                   4121+*                                  INSTRUCTION UNDER TEST ROUTINE
000046A8                                           4122+X114     DS    0F
000046A8  E310 8EF0 0004                000010F0   4123+         LG    R1,R1FUDGE        pollute R1
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000046AE  E710 5064 0006                 000046D4  4124+         VL    V1,RE114+8        get V1 source
000046B4  E611 0090 0052                           4125+         VCVBG R1,V1,9,0         test instruction
000046BA  E310 5028 0024                 00004698  4126+         STG   R1,R1O114         save
000046C0  B98D 0020                                4127+         EPSW  R2,R0             exptract psw
000046C4  5020 8EE4                      000010E4  4128+         ST    R2,CCPSW              to save CC
000046C8  07FB                                     4129+         BR    R11               return
000046CC                                           4130+RE114    DC    0F
000046CC                                           4131+         DROP  R5
000046CC  00000000 0000000A                        4132          DC    XL08'000000000000000A'                    R1 result
000046D4  00000000 00000000                        4133          DC    XL16'00000000000000000000000000000010D'   V1 source
000046DC  00000000 0000010D
                                                   4134
                                                   4135          VRR_I VCVBG,9,0,0                               + SIGN - A
000046E8                                           4136+         DS    0FD
000046E8                         000046E8          4137+         USING *,R5              base for test data and test routine
000046E8  00004720                                 4138+T115     DC    A(X115)           address of test routine
000046EC  0073                                     4139+         DC    H'115'            test number
000046EE  00                                       4140+         DC    XL1'00'
000046EF  09                                       4141+         DC    HL1'9'            &M3
000046F0  00                                       4142+         DC    HL1'0'            &M4
000046F1  00                                       4143+         DC    HL1'0'            cc
000046F2  07                                       4144+         DC    HL1'7'            cc failed mask
000046F3  E5C3E5C2 C7404040                        4145+         DC    CL8'VCVBG'        instruction name
000046FC  00000010                                 4146+         DC    A(16)             result length
00004700  00004744                                 4147+REA115   DC    A(RE115)          result address
00004708  00000000 00000000                        4148+         DS    FD                      gap
00004710  00000000 00000000                        4149+R1O115   DS    FD                R1 OUTPUT
00004718  00000000 00000000                        4150+         DS    FD                      gap
                                                   4151+*                                  INSTRUCTION UNDER TEST ROUTINE
00004720                                           4152+X115     DS    0F
00004720  E310 8EF0 0004                 000010F0  4153+         LG    R1,R1FUDGE        pollute R1
00004726  E710 5064 0006                 0000474C  4154+         VL    V1,RE115+8        get V1 source
0000472C  E611 0090 0052                           4155+         VCVBG R1,V1,9,0         test instruction
00004732  E310 5028 0024                 00004710  4156+         STG   R1,R1O115         save
00004738  B98D 0020                                4157+         EPSW  R2,R0             exptract psw
0000473C  5020 8EE4                      000010E4  4158+         ST    R2,CCPSW              to save CC
00004740  07FB                                     4159+         BR    R11               return
00004744                                           4160+RE115    DC    0F
00004744                                           4161+         DROP  R5
00004744  00000000 000000FF                        4162          DC    XL08'00000000000000FF'                    R1 result
0000474C  00000000 00000000                        4163          DC    XL16'00000000000000000000000000000255A'   V1 source
00004754  00000000 0000255A
                                                   4164
                                                   4165          VRR_I VCVBG,9,0,0                               - SIGN - B
00004760                                           4166+         DS    0FD
00004760                         00004760          4167+         USING *,R5              base for test data and test routine
00004760  00004798                                 4168+T116     DC    A(X116)           address of test routine
00004764  0074                                     4169+         DC    H'116'            test number
00004766  00                                       4170+         DC    XL1'00'
00004767  09                                       4171+         DC    HL1'9'            &M3
00004768  00                                       4172+         DC    HL1'0'            &M4
00004769  00                                       4173+         DC    HL1'0'            cc
0000476A  07                                       4174+         DC    HL1'7'            cc failed mask
0000476B  E5C3E5C2 C7404040                        4175+         DC    CL8'VCVBG'        instruction name
00004774  00000010                                 4176+         DC    A(16)             result length
00004778  000047BC                                 4177+REA116   DC    A(RE116)          result address
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004780  00000000 00000000                        4178+         DS    FD                      gap
00004788  00000000 00000000                        4179+R1O116   DS    FD                 R1 OUTPUT
00004790  00000000 00000000                        4180+         DS    FD                      gap
                                                   4181+*                                INSTRUCTION UNDER TEST ROUTINE
00004798                                           4182+X116     DS    0F
00004798  E310 8EF0 0004                 000010F0  4183+         LG    R1,R1FUDGE         pollute R1
0000479E  E710 5064 0006                 000047C4  4184+         VL    V1,RE116+8         get V1 source
000047A4  E611 0090 0052                           4185+         VCVBG R1,V1,9,0          test instruction
000047AA  E310 5028 0024                 00004788  4186+         STG   R1,R1O116          save
000047B0  B98D 0020                                4187+         EPSW  R2,R0              exptract psw
000047B4  5020 8EE4                      000010E4  4188+         ST    R2,CCPSW               to save CC
000047B8  07FB                                     4189+         BR    R11                return
000047BC                                           4190+RE116    DC    0F
000047BC                                           4191+         DROP  R5
000047BC  00000000 000000FF                        4192          DC    XL08'00000000000000FF'                    R1 result
000047C4  00000000 00000000                        4193          DC    XL16'00000000000000000000000000000255B'   V1 source
000047CC  00000000 0000255B
                                                   4194
                                                   4195          VRR_I VCVBG,9,0,0                               + SIGN - E
000047D8                                           4196+         DS    0FD
000047D8                         000047D8          4197+         USING *,R5               base for test data and test routine
000047D8  00004810                                 4198+T117     DC    A(X117)            address of test routine
000047DC  0075                                     4199+         DC    H'117'             test number
000047DE  00                                       4200+         DC    XL1'00'
000047DF  09                                       4201+         DC    HL1'9'             &M3
000047E0  00                                       4202+         DC    HL1'0'             &M4
000047E1  00                                       4203+         DC    HL1'0'             cc
000047E2  07                                       4204+         DC    HL1'7'             cc failed mask
000047E3  E5C3E5C2 C7404040                        4205+         DC    CL8'VCVBG'         instruction name
000047EC  00000010                                 4206+         DC    A(16)              result length
000047F0  00004834                                 4207+REA117   DC    A(RE117)           result address
000047F8  00000000 00000000                        4208+         DS    FD                      gap
00004800  00000000 00000000                        4209+R1O117   DS    FD                 R1 OUTPUT
00004808  00000000 00000000                        4210+         DS    FD                      gap
                                                   4211+*                                INSTRUCTION UNDER TEST ROUTINE
00004810                                           4212+X117     DS    0F
00004810  E310 8EF0 0004                 000010F0  4213+         LG    R1,R1FUDGE         pollute R1
00004816  E710 5064 0006                 0000483C  4214+         VL    V1,RE117+8         get V1 source
0000481C  E611 0090 0052                           4215+         VCVBG R1,V1,9,0          test instruction
00004822  E310 5028 0024                 00004800  4216+         STG   R1,R1O117          save
00004828  B98D 0020                                4217+         EPSW  R2,R0              exptract psw
0000482C  5020 8EE4                      000010E4  4218+         ST    R2,CCPSW               to save CC
00004830  07FB                                     4219+         BR    R11                return
00004834                                           4220+RE117    DC    0F
00004834                                           4221+         DROP  R5
00004834  00000000 000000FF                        4222          DC    XL08'00000000000000FF'                    R1 result
0000483C  00000000 00000000                        4223          DC    XL16'00000000000000000000000000000255E'   V1 source
00004844  00000000 0000255E
                                                   4224
                                                   4225          VRR_I VCVBG,9,0,0                               + SIGN - F
00004850                                           4226+         DS    0FD
00004850                         00004850          4227+         USING *,R5               base for test data and test routine
00004850  00004888                                 4228+T118     DC    A(X118)            address of test routine
00004854  0076                                     4229+         DC    H'118'             test number
00004856  00                                       4230+         DC    XL1'00'
00004857  09                                       4231+         DC    HL1'9'             &M3
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004858  00                                       4232+         DC    HL1'0'            &M4
00004859  00                                       4233+         DC    HL1'0'            cc
0000485A  07                                       4234+         DC    HL1'7'            cc failed mask
0000485B  E5C3E5C2 C7404040                        4235+         DC    CL8'VCVBG'        instruction name
00004864  00000010                                 4236+         DC    A(16)             result length
00004868  000048AC                                 4237+REA118   DC    A(RE118)          result address
00004870  00000000 00000000                        4238+         DS    FD                      gap
00004878  00000000 00000000                        4239+R1O118   DS    FD                R1 OUTPUT
00004880  00000000 00000000                        4240+         DS    FD                      gap
                                                   4241+*                                  INSTRUCTION UNDER TEST ROUTINE
00004888                                           4242+X118     DS    0F
00004888  E310 8EF0 0004                000010F0   4243+         LG    R1,R1FUDGE        pollute R1
0000488E  E710 5064 0006                000048B4   4244+         VL    V1,RE118+8        get V1 source
00004894  E611 0090 0052                           4245+         VCVBG R1,V1,9,0         test instruction
0000489A  E310 5028 0024                00004878   4246+         STG   R1,R1O118         save
000048A0  B98D 0020                                4247+         EPSW  R2,R0             exptract psw
000048A4  5020 8EE4                     000010E4   4248+         ST    R2,CCPSW              to save CC
000048A8  07FB                                     4249+         BR    R11               return
000048AC                                           4250+RE118    DC    0F
000048AC                                           4251+         DROP  R5
000048AC  00000000 000000FF                        4252          DC    XL08'00000000000000FF'                    R1 result
000048B4  00000000 00000000                        4253          DC    XL16'0000000000000000000000000000255F'    V1 source
000048BC  00000000 0000255F
                                                   4254
                                                   4255          VRR_I VCVBG,9,0,0
000048C8                                           4256+         DS    0FD
000048C8                        000048C8           4257+         USING *,R5              base for test data and test routine
000048C8  00004900                                 4258+T119     DC    A(X119)           address of test routine
000048CC  0077                                     4259+         DC    H'119'            test number
000048CE  00                                       4260+         DC    XL1'00'
000048CF  09                                       4261+         DC    HL1'9'            &M3
000048D0  00                                       4262+         DC    HL1'0'            &M4
000048D1  00                                       4263+         DC    HL1'0'            cc
000048D2  07                                       4264+         DC    HL1'7'            cc failed mask
000048D3  E5C3E5C2 C7404040                        4265+         DC    CL8'VCVBG'        instruction name
000048DC  00000010                                 4266+         DC    A(16)             result length
000048E0  00004924                                 4267+REA119   DC    A(RE119)          result address
000048E8  00000000 00000000                        4268+         DS    FD                      gap
000048F0  00000000 00000000                        4269+R1O119   DS    FD                R1 OUTPUT
000048F8  00000000 00000000                        4270+         DS    FD                      gap
                                                   4271+*                                  INSTRUCTION UNDER TEST ROUTINE
00004900                                           4272+X119     DS    0F
00004900  E310 8EF0 0004                000010F0   4273+         LG    R1,R1FUDGE        pollute R1
00004906  E710 5064 0006                0000492C   4274+         VL    V1,RE119+8        get V1 source
0000490C  E611 0090 0052                           4275+         VCVBG R1,V1,9,0         test instruction
00004912  E310 5028 0024                000048F0   4276+         STG   R1,R1O119         save
00004918  B98D 0020                                4277+         EPSW  R2,R0             exptract psw
0000491C  5020 8EE4                     000010E4   4278+         ST    R2,CCPSW              to save CC
00004920  07FB                                     4279+         BR    R11               return
00004924                                           4280+RE119    DC    0F
00004924                                           4281+         DROP  R5
00004924  00000000 0008A160                        4282          DC    XL08'000000000008A160'                    R1 result
0000492C  00000000 00000000                        4283          DC    XL16'0000000000000000000000000565600C'    V1 source
00004934  00000000 0565600C
                                                   4284
                                                   4285          VRR_I VCVBG,9,0,0
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004940                                           4286+         DS    0FD
00004940                     00004940              4287+         USING *,R5              base for test data and test routine
00004940  00004978                                 4288+T120     DC    A(X120)           address of test routine
00004944  0078                                     4289+         DC    H'120'            test number
00004946  00                                       4290+         DC    XL1'00'
00004947  09                                       4291+         DC    HL1'9'            &M3
00004948  00                                       4292+         DC    HL1'0'            &M4
00004949  00                                       4293+         DC    HL1'0'            cc
0000494A  07                                       4294+         DC    HL1'7'            cc failed mask
0000494B  E5C3E5C2 C7404040                        4295+         DC    CL8'VCVBG'        instruction name
00004954  00000010                                 4296+         DC    A(16)             result length
00004958  0000499C                                 4297+REA120   DC    A(RE120)          result address
00004960  00000000 00000000                        4298+         DS    FD                      gap
00004968  00000000 00000000                        4299+R1O120   DS    FD                R1 OUTPUT
00004970  00000000 00000000                        4300+         DS    FD                      gap
                                                   4301+*                                  INSTRUCTION UNDER TEST ROUTINE
00004978                                           4302+X120     DS    0F
00004978  E310 8EF0 0004                000010F0   4303+         LG    R1,R1FUDGE        pollute R1
0000497E  E710 5064 0006                000049A4   4304+         VL    V1,RE120+8        get V1 source
00004984  E611 0090 0052                           4305+         VCVBG R1,V1,9,0         test instruction
0000498A  E310 5028 0024                00004968   4306+         STG   R1,R1O120         save
00004990  B98D 0020                                4307+         EPSW  R2,R0             exptract psw
00004994  5020 8EE4                     000010E4   4308+         ST    R2,CCPSW                to save CC
00004998  07FB                                     4309+         BR    R11               return
0000499C                                           4310+RE120    DC    0F
0000499C                                           4311+         DROP  R5
0000499C  00000000 0008A160                        4312          DC    XL08'000000000008A160'                    R1 result
000049A4  00000000 00000000                        4313          DC    XL16'00000000000000000000000000565600D'   V1 source
000049AC  00000000 0565600D
                                                   4314
                                                   4315          VRR_I VCVBG,9,0,0                               INT_MAX
000049B8                                           4316+         DS    0FD
000049B8                     000049B8              4317+         USING *,R5              base for test data and test routine
000049B8  000049F0                                 4318+T121     DC    A(X121)           address of test routine
000049BC  0079                                     4319+         DC    H'121'            test number
000049BE  00                                       4320+         DC    XL1'00'
000049BF  09                                       4321+         DC    HL1'9'            &M3
000049C0  00                                       4322+         DC    HL1'0'            &M4
000049C1  00                                       4323+         DC    HL1'0'            cc
000049C2  07                                       4324+         DC    HL1'7'            cc failed mask
000049C3  E5C3E5C2 C7404040                        4325+         DC    CL8'VCVBG'        instruction name
000049CC  00000010                                 4326+         DC    A(16)             result length
000049D0  00004A14                                 4327+REA121   DC    A(RE121)          result address
000049D8  00000000 00000000                        4328+         DS    FD                      gap
000049E0  00000000 00000000                        4329+R1O121   DS    FD                R1 OUTPUT
000049E8  00000000 00000000                        4330+         DS    FD                      gap
                                                   4331+*                                  INSTRUCTION UNDER TEST ROUTINE
000049F0                                           4332+X121     DS    0F
000049F0  E310 8EF0 0004                000010F0   4333+         LG    R1,R1FUDGE        pollute R1
000049F6  E710 5064 0006                00004A1C   4334+         VL    V1,RE121+8        get V1 source
000049FC  E611 0090 0052                           4335+         VCVBG R1,V1,9,0         test instruction
00004A02  E310 5028 0024                000049E0   4336+         STG   R1,R1O121         save
00004A08  B98D 0020                                4337+         EPSW  R2,R0             exptract psw
00004A0C  5020 8EE4                     000010E4   4338+         ST    R2,CCPSW                to save CC
00004A10  07FB                                     4339+         BR    R11               return
00004A14                                           4340+RE121    DC    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004A14                                           4341+         DROP  R5
00004A14  00000000 7FFFFFFF                        4342          DC    XL08'000000007FFFFFFF'                    R1 result
00004A1C  00000000 00000000                        4343          DC    XL16'00000000000000000000002147483647C'   V1 source
00004A24  00000214 7483647C
                                                   4344
                                                   4345          VRR_I VCVBG,9,0,0                               INT_MIN
00004A30                                           4346+         DS    0FD
00004A30                      00004A30             4347+         USING *,R5              base for test data and test routine
00004A30  00004A68                                 4348+T122     DC    A(X122)           address of test routine
00004A34  007A                                     4349+         DC    H'122'            test number
00004A36  00                                       4350+         DC    XL1'00'
00004A37  09                                       4351+         DC    HL1'9'            &M3
00004A38  00                                       4352+         DC    HL1'0'            &M4
00004A39  00                                       4353+         DC    HL1'0'            cc
00004A3A  07                                       4354+         DC    HL1'7'            cc failed mask
00004A3B  E5C3E5C2 C7404040                        4355+         DC    CL8'VCVBG'        instruction name
00004A44  00000010                                 4356+         DC    A(16)             result length
00004A48  00004A8C                                 4357+REA122   DC    A(RE122)          result address
00004A50  00000000 00000000                        4358+         DS    FD                      gap
00004A58  00000000 00000000                        4359+R1O122   DS    FD                R1 OUTPUT
00004A60  00000000 00000000                        4360+         DS    FD                      gap
                                                   4361+*                                  INSTRUCTION UNDER TEST ROUTINE
00004A68                                           4362+X122     DS    0F
00004A68  E310 8EF0 0004                000010F0   4363+         LG    R1,R1FUDGE        pollute R1
00004A6E  E710 5064 0006                00004A94   4364+         VL    V1,RE122+8        get V1 source
00004A74  E611 0090 0052                           4365+         VCVBG R1,V1,9,0         test instruction
00004A7A  E310 5028 0024                00004A58   4366+         STG   R1,R1O122         save
00004A80  B98D 0020                                4367+         EPSW  R2,R0             exptract psw
00004A84  5020 8EE4                     000010E4   4368+         ST    R2,CCPSW              to save CC
00004A88  07FB                                     4369+         BR    R11               return
00004A8C                                           4370+RE122    DC    0F
00004A8C                                           4371+         DROP  R5
00004A8C  00000000 80000000                        4372          DC    XL08'0000000080000000'                    R1 result
00004A94  00000000 00000000                        4373          DC    XL16'00000000000000000000002147483648D'   V1 source
00004A9C  00000214 7483648D
                                                   4374
                                                   4375          VRR_I VCVBG,9,0,0                               UINT_MAX
00004AA8                                           4376+         DS    0FD
00004AA8                      00004AA8             4377+         USING *,R5              base for test data and test routine
00004AA8  00004AE0                                 4378+T123     DC    A(X123)           address of test routine
00004AAC  007B                                     4379+         DC    H'123'            test number
00004AAE  00                                       4380+         DC    XL1'00'
00004AAF  09                                       4381+         DC    HL1'9'            &M3
00004AB0  00                                       4382+         DC    HL1'0'            &M4
00004AB1  00                                       4383+         DC    HL1'0'            cc
00004AB2  07                                       4384+         DC    HL1'7'            cc failed mask
00004AB3  E5C3E5C2 C7404040                        4385+         DC    CL8'VCVBG'        instruction name
00004ABC  00000010                                 4386+         DC    A(16)             result length
00004AC0  00004B04                                 4387+REA123   DC    A(RE123)          result address
00004AC8  00000000 00000000                        4388+         DS    FD                      gap
00004AD0  00000000 00000000                        4389+R1O123   DS    FD                R1 OUTPUT
00004AD8  00000000 00000000                        4390+         DS    FD                      gap
                                                   4391+*                                  INSTRUCTION UNDER TEST ROUTINE
00004AE0                                           4392+X123     DS    0F
00004AE0  E310 8EF0 0004                000010F0   4393+         LG    R1,R1FUDGE        pollute R1
00004AE6  E710 5064 0006                00004B0C   4394+         VL    V1,RE123+8        get V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004AEC  E611 0090 0052                          4395+         VCVBG R1,V1,9,0         test instruction
00004AF2  E310 5028 0024                 00004AD0  4396+         STG   R1,R1O123         save
00004AF8  B98D 0020                               4397+         EPSW  R2,R0             exptract psw
00004AFC  5020 8EE4                      000010E4 4398+         ST    R2,CCPSW              to save CC
00004B00  07FB                                    4399+         BR    R11               return
00004B04                                          4400+RE123    DC    0F
00004B04                                          4401+         DROP  R5
00004B04  00000000 FFFFFFFF                       4402          DC    XL08'00000000FFFFFFFF'                    R1 result
00004B0C  00000000 00000000                       4403          DC    XL16'0000000000000000000004294967295C'    V1 source
00004B14  00000429 4967295C
                                                  4404
                                                  4405          VRR_I VCVBG,9,0,0                               UINT_MAX +1
00004B20                                          4406+         DS    0FD
00004B20                         00004B20         4407+         USING *,R5              base for test data and test routine
00004B20  00004B58                                4408+T124     DC    A(X124)           address of test routine
00004B24  007C                                    4409+         DC    H'124'            test number
00004B26  00                                      4410+         DC    XL1'00'
00004B27  09                                      4411+         DC    HL1'9'            &M3
00004B28  00                                      4412+         DC    HL1'0'            &M4
00004B29  00                                      4413+         DC    HL1'0'            cc
00004B2A  07                                      4414+         DC    HL1'7'            cc failed mask
00004B2B  E5C3E5C2 C7404040                       4415+         DC    CL8'VCVBG'        instruction name
00004B34  00000010                                4416+         DC    A(16)             result length
00004B38  00004B7C                                4417+REA124   DC    A(RE124)          result address
00004B40  00000000 00000000                       4418+         DS    FD                      gap
00004B48  00000000 00000000                       4419+R1O124   DS    FD                R1 OUTPUT
00004B50  00000000 00000000                       4420+         DS    FD                      gap
                                                  4421+*                                  INSTRUCTION UNDER TEST ROUTINE
00004B58                                          4422+X124     DS    0F
00004B58  E310 8EF0 0004                 000010F0 4423+         LG    R1,R1FUDGE        pollute R1
00004B5E  E710 5064 0006                 00004B84 4424+         VL    V1,RE124+8        get V1 source
00004B64  E611 0090 0052                          4425+         VCVBG R1,V1,9,0         test instruction
00004B6A  E310 5028 0024                 00004B48 4426+         STG   R1,R1O124         save
00004B70  B98D 0020                               4427+         EPSW  R2,R0             exptract psw
00004B74  5020 8EE4                      000010E4 4428+         ST    R2,CCPSW              to save CC
00004B78  07FB                                    4429+         BR    R11               return
00004B7C                                          4430+RE124    DC    0F
00004B7C                                          4431+         DROP  R5
00004B7C  00000001 00000000                       4432          DC    XL08'0000000100000000'                    R1 result
00004B84  00000000 00000000                       4433          DC    XL16'0000000000000000000004294967296C'    V1 source
00004B8C  00000429 4967296C
                                                  4434
                                                  4435          VRR_I VCVBG,9,0,0
00004B98                                          4436+         DS    0FD
00004B98                         00004B98         4437+         USING *,R5              base for test data and test routine
00004B98  00004BD0                                4438+T125     DC    A(X125)           address of test routine
00004B9C  007D                                    4439+         DC    H'125'            test number
00004B9E  00                                      4440+         DC    XL1'00'
00004B9F  09                                      4441+         DC    HL1'9'            &M3
00004BA0  00                                      4442+         DC    HL1'0'            &M4
00004BA1  00                                      4443+         DC    HL1'0'            cc
00004BA2  07                                      4444+         DC    HL1'7'            cc failed mask
00004BA3  E5C3E5C2 C7404040                       4445+         DC    CL8'VCVBG'        instruction name
00004BAC  00000010                                4446+         DC    A(16)             result length
00004BB0  00004BF4                                4447+REA125   DC    A(RE125)          result address
00004BB8  00000000 00000000                       4448+         DS    FD                      gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004BC0  00000000 00000000                        4449+R1O125   DS    FD                R1 OUTPUT
00004BC8  00000000 00000000                        4450+         DS    FD                      gap
                                                   4451+*                                INSTRUCTION UNDER TEST ROUTINE
00004BD0                                           4452+X125     DS    0F
00004BD0  E310 8EF0 0004                 000010F0  4453+         LG    R1,R1FUDGE        pollute R1
00004BD6  E710 5064 0006                 00004BFC  4454+         VL    V1,RE125+8        get V1 source
00004BDC  E611 0090 0052                           4455+         VCVBG R1,V1,9,0         test instruction
00004BE2  E310 5028 0024                 00004BC0  4456+         STG   R1,R1O125         save
00004BE8  B98D 0020                                4457+         EPSW  R2,R0             exptract psw
00004BEC  5020 8EE4                      000010E4  4458+         ST    R2,CCPSW              to save CC
00004BF0  07FB                                     4459+         BR    R11               return
00004BF4                                           4460+RE125    DC    0F
00004BF4                                           4461+         DROP  R5
00004BF4  00000002 DF8E1660                        4462          DC    XL08'00000002DF8E1660'                    R1 result
00004BFC  00000000 00000000                        4463          DC    XL16'0000000000000000000012340565600C'    V1 source
00004C04  00001234 0565600C
                                                   4464
                                                   4465          VRR_I VCVBG,9,0,0                               LONG_MAX
00004C10                                           4466+         DS    0FD
00004C10                         00004C10          4467+         USING *,R5              base for test data and test routine
00004C10  00004C48                                 4468+T126     DC    A(X126)           address of test routine
00004C14  007E                                     4469+         DC    H'126'            test number
00004C16  00                                       4470+         DC    XL1'00'
00004C17  09                                       4471+         DC    HL1'9'            &M3
00004C18  00                                       4472+         DC    HL1'0'            &M4
00004C19  00                                       4473+         DC    HL1'0'            cc
00004C1A  07                                       4474+         DC    HL1'7'            cc failed mask
00004C1B  E5C3E5C2 C7404040                        4475+         DC    CL8'VCVBG'        instruction name
00004C24  00000010                                 4476+         DC    A(16)             result length
00004C28  00004C6C                                 4477+REA126   DC    A(RE126)          result address
00004C30  00000000 00000000                        4478+         DS    FD                      gap
00004C38  00000000 00000000                        4479+R1O126   DS    FD                R1 OUTPUT
00004C40  00000000 00000000                        4480+         DS    FD                      gap
                                                   4481+*                                INSTRUCTION UNDER TEST ROUTINE
00004C48                                           4482+X126     DS    0F
00004C48  E310 8EF0 0004                 000010F0  4483+         LG    R1,R1FUDGE        pollute R1
00004C4E  E710 5064 0006                 00004C74  4484+         VL    V1,RE126+8        get V1 source
00004C54  E611 0090 0052                           4485+         VCVBG R1,V1,9,0         test instruction
00004C5A  E310 5028 0024                 00004C38  4486+         STG   R1,R1O126         save
00004C60  B98D 0020                                4487+         EPSW  R2,R0             exptract psw
00004C64  5020 8EE4                      000010E4  4488+         ST    R2,CCPSW              to save CC
00004C68  07FB                                     4489+         BR    R11               return
00004C6C                                           4490+RE126    DC    0F
00004C6C                                           4491+         DROP  R5
00004C6C  7FFFFFFF FFFFFFFF                        4492          DC    XL08'7FFFFFFFFFFFFFFF'                    R1 result
00004C74  00000000 00009223                        4493          DC    XL16'00000000000092233720368547758 07C'   V1 source
00004C7C  37203685 4775807C
                                                   4494
                                                   4495 *                                                        Bad Sign - 0
                                                   4496          VRR_I VCVBG,9,0,0                               LONG_MAX
00004C88                                           4497+         DS    0FD
00004C88                         00004C88          4498+         USING *,R5              base for test data and test routine
00004C88  00004CC0                                 4499+T127     DC    A(X127)           address of test routine
00004C8C  007F                                     4500+         DC    H'127'            test number
00004C8E  00                                       4501+         DC    XL1'00'
00004C8F  09                                       4502+         DC    HL1'9'            &M3
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004C90  00                                      4503+          DC    HL1'0'             &M4
00004C91  00                                      4504+          DC    HL1'0'             cc
00004C92  07                                      4505+          DC    HL1'7'             cc failed mask
00004C93  E5C3E5C2 C7404040                       4506+          DC    CL8'VCVBG'         instruction name
00004C9C  00000010                                4507+          DC    A(16)              result length
00004CA0  00004CE4                                4508+REA127    DC    A(RE127)           result address
00004CA8  00000000 00000000                       4509+          DS    FD                       gap
00004CB0  00000000 00000000                       4510+R1O127    DS    FD                 R1 OUTPUT
00004CB8  00000000 00000000                       4511+          DS    FD                       gap
                                                  4512+*                                  INSTRUCTION UNDER TEST ROUTINE
00004CC0                                          4513+X127      DS    0F
00004CC0  E310 8EF0 0004                000010F0  4514+          LG    R1,R1FUDGE         pollute R1
00004CC6  E710 5064 0006                00004CEC  4515+          VL    V1,RE127+8         get V1 source
00004CCC  E611 0090 0052                          4516+          VCVBG R1,V1,9,0          test instruction
00004CD2  E310 5028 0024                00004CB0  4517+          STG   R1,R1O127          save
00004CD8  B98D 0020                               4518+          EPSW  R2,R0              exptract psw
00004CDC  5020 8EE4                     000010E4  4519+          ST    R2,CCPSW               to save CC
00004CE0  07FB                                    4520+          BR    R11                return
00004CE4                                          4521+RE127     DC    0F
00004CE4                                          4522+          DROP  R5
00004CE4  7FFFFFFF FFFFFFFF                       4523           DC    XL08'7FFFFFFFFFFFFFFF'                   R1 result
00004CEC  00000000 00009223                       4524           DC    XL16'00000000000092233720368547758070'   V1 source
00004CF4  37203685 47758070
                                                  4525
                                                  4526 * VCVBG   m3=9 (p2=1, lb=0, cs=1)       m4=0 (iom=0, orc=0)
                                                  4527 *         cc=3 (overflow)
                                                  4528           VRR_I VCVBG,9,0,3                               LONG_MIN
00004D00                                          4529+          DS    0FD
00004D00                        00004D00          4530+          USING *,R5               base for test data and test routine
00004D00  00004D38                                4531+T128      DC    A(X128)            address of test routine
00004D04  0080                                    4532+          DC    H'128'             test number
00004D06  00                                      4533+          DC    XL1'00'
00004D07  09                                      4534+          DC    HL1'9'             &M3
00004D08  00                                      4535+          DC    HL1'0'             &M4
00004D09  03                                      4536+          DC    HL1'3'             cc
00004D0A  0E                                      4537+          DC    HL1'14'            cc failed mask
00004D0B  E5C3E5C2 C7404040                       4538+          DC    CL8'VCVBG'         instruction name
00004D14  00000010                                4539+          DC    A(16)              result length
00004D18  00004D5C                                4540+REA128    DC    A(RE128)           result address
00004D20  00000000 00000000                       4541+          DS    FD                       gap
00004D28  00000000 00000000                       4542+R1O128    DS    FD                 R1 OUTPUT
00004D30  00000000 00000000                       4543+          DS    FD                       gap
                                                  4544+*                                  INSTRUCTION UNDER TEST ROUTINE
00004D38                                          4545+X128      DS    0F
00004D38  E310 8EF0 0004                000010F0  4546+          LG    R1,R1FUDGE         pollute R1
00004D3E  E710 5064 0006                00004D64  4547+          VL    V1,RE128+8         get V1 source
00004D44  E611 0090 0052                          4548+          VCVBG R1,V1,9,0          test instruction
00004D4A  E310 5028 0024                00004D28  4549+          STG   R1,R1O128          save
00004D50  B98D 0020                               4550+          EPSW  R2,R0              exptract psw
00004D54  5020 8EE4                     000010E4  4551+          ST    R2,CCPSW               to save CC
00004D58  07FB                                    4552+          BR    R11                return
00004D5C                                          4553+RE128     DC    0F
00004D5C                                          4554+          DROP  R5
00004D5C  80000000 00000000                       4555           DC    XL08'8000000000000000'                   R1 result
00004D64  00000000 00009223                       4556           DC    XL16'00000000000092233720368547758 08D'  V1 source
00004D6C  37203685 4775808D
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   4557
                                                   4558          VRR_I VCVBG,9,0,3                                LONG_MIN-1
00004D78                                           4559+         DS    0FD
00004D78                     00004D78              4560+         USING *,R5              base for test data and test routine
00004D78  00004DB0                                 4561+T129     DC    A(X129)           address of test routine
00004D7C  0081                                     4562+         DC    H'129'            test number
00004D7E  00                                       4563+         DC    XL1'00'
00004D7F  09                                       4564+         DC    HL1'9'            &M3
00004D80  00                                       4565+         DC    HL1'0'            &M4
00004D81  03                                       4566+         DC    HL1'3'            cc
00004D82  0E                                       4567+         DC    HL1'14'           cc failed mask
00004D83  E5C3E5C2 C7404040                        4568+         DC    CL8'VCVBG'        instruction name
00004D8C  00000010                                 4569+         DC    A(16)             result length
00004D90  00004DD4                                 4570+REA129   DC    A(RE129)          result address
00004D98  00000000 00000000                        4571+         DS    FD                      gap
00004DA0  00000000 00000000                        4572+R1O129   DS    FD                R1 OUTPUT
00004DA8  00000000 00000000                        4573+         DS    FD                      gap
                                                   4574+*                                  INSTRUCTION UNDER TEST ROUTINE
00004DB0                                           4575+X129     DS    0F
00004DB0  E310 8EF0 0004                000010F0   4576+         LG    R1,R1FUDGE        pollute R1
00004DB6  E710 5064 0006                00004DDC   4577+         VL    V1,RE129+8        get V1 source
00004DBC  E611 0090 0052                           4578+         VCVBG R1,V1,9,0         test instruction
00004DC2  E310 5028 0024                00004DA0   4579+         STG   R1,R1O129         save
00004DC8  B98D 0020                                4580+         EPSW  R2,R0             exptract psw
00004DCC  5020 8EE4                     000010E4   4581+         ST    R2,CCPSW              to save CC
00004DD0  07FB                                     4582+         BR    R11               return
00004DD4                                           4583+RE129    DC    0F
00004DD4                                           4584+         DROP  R5
00004DD4  80000000 00000001                        4585          DC    XL08'8000000000000001'                     R1 result
00004DDC  00000000 00009223                        4586          DC    XL16'00000000000092233720368547758 09D'    V1 source
00004DE4  37203685 4775809D
                                                   4587
                                                   4588          VRR_I VCVBG,9,0,3                                ULONG_MAX +1
00004DF0                                           4589+         DS    0FD
00004DF0                     00004DF0              4590+         USING *,R5              base for test data and test routine
00004DF0  00004E28                                 4591+T130     DC    A(X130)           address of test routine
00004DF4  0082                                     4592+         DC    H'130'            test number
00004DF6  00                                       4593+         DC    XL1'00'
00004DF7  09                                       4594+         DC    HL1'9'            &M3
00004DF8  00                                       4595+         DC    HL1'0'            &M4
00004DF9  03                                       4596+         DC    HL1'3'            cc
00004DFA  0E                                       4597+         DC    HL1'14'           cc failed mask
00004DFB  E5C3E5C2 C7404040                        4598+         DC    CL8'VCVBG'        instruction name
00004E04  00000010                                 4599+         DC    A(16)             result length
00004E08  00004E4C                                 4600+REA130   DC    A(RE130)          result address
00004E10  00000000 00000000                        4601+         DS    FD                      gap
00004E18  00000000 00000000                        4602+R1O130   DS    FD                R1 OUTPUT
00004E20  00000000 00000000                        4603+         DS    FD                      gap
                                                   4604+*                                  INSTRUCTION UNDER TEST ROUTINE
00004E28                                           4605+X130     DS    0F
00004E28  E310 8EF0 0004                000010F0   4606+         LG    R1,R1FUDGE        pollute R1
00004E2E  E710 5064 0006                00004E54   4607+         VL    V1,RE130+8        get V1 source
00004E34  E611 0090 0052                           4608+         VCVBG R1,V1,9,0         test instruction
00004E3A  E310 5028 0024                00004E18   4609+         STG   R1,R1O130         save
00004E40  B98D 0020                                4610+         EPSW  R2,R0             exptract psw
00004E44  5020 8EE4                     000010E4   4611+         ST    R2,CCPSW              to save CC
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004E48  07FB                                     4612+         BR    R11                 return
00004E4C                                           4613+RE130    DC    0F
00004E4C                                           4614+         DROP  R5
00004E4C  00000000 00000000                        4615          DC    XL08'0000000000000000'                R1 result
00004E54  00000000 00018446                        4616          DC    XL16'00000000000184467440737095516 16C'   V1 source
00004E5C  74407370 9551616C
                                                   4617
                                                   4618          VRR_I VCVBG,9,0,3                           ULONG_MAX +11
00004E68                                           4619+         DS    0FD
00004E68                       00004E68            4620+         USING *,R5                base for test data and test routine
00004E68  00004EA0                                 4621+T131     DC    A(X131)             address of test routine
00004E6C  0083                                     4622+         DC    H'131'              test number
00004E6E  00                                       4623+         DC    XL1'00'
00004E6F  09                                       4624+         DC    HL1'9'              &M3
00004E70  00                                       4625+         DC    HL1'0'              &M4
00004E71  03                                       4626+         DC    HL1'3'              cc
00004E72  0E                                       4627+         DC    HL1'14'             cc failed mask
00004E73  E5C3E5C2 C7404040                        4628+         DC    CL8'VCVBG'          instruction name
00004E7C  00000010                                 4629+         DC    A(16)               result length
00004E80  00004EC4                                 4630+REA131   DC    A(RE131)            result address
00004E88  00000000 00000000                        4631+         DS    FD                        gap
00004E90  00000000 00000000                        4632+R1O131   DS    FD                  R1 OUTPUT
00004E98  00000000 00000000                        4633+         DS    FD                        gap
                                                   4634+*                                  INSTRUCTION UNDER TEST ROUTINE
00004EA0                                           4635+X131     DS    0F
00004EA0  E310 8EF0 0004                000010F0   4636+         LG    R1,R1FUDGE          pollute R1
00004EA6  E710 5064 0006                00004ECC   4637+         VL    V1,RE131+8          get V1 source
00004EAC  E611 0090 0052                           4638+         VCVBG R1,V1,9,0           test instruction
00004EB2  E310 5028 0024                00004E90   4639+         STG   R1,R1O131           save
00004EB8  B98D 0020                                4640+         EPSW  R2,R0               exptract psw
00004EBC  5020 8EE4                     000010E4   4641+         ST    R2,CCPSW                to save CC
00004EC0  07FB                                     4642+         BR    R11                 return
00004EC4                                           4643+RE131    DC    0F
00004EC4                                           4644+         DROP  R5
00004EC4  00000000 0000000A                        4645          DC    XL08'000000000000000A'                R1 result
00004ECC  00000000 00018446                        4646          DC    XL16'00000000000184467440737095516 26C'   V1 source
00004ED4  74407370 9551626C
                                                   4647
                                                   4648          VRR_I VCVBG,9,0,3                          -(ULONG_MAX +1)
00004EE0                                           4649+         DS    0FD
00004EE0                       00004EE0            4650+         USING *,R5                base for test data and test routine
00004EE0  00004F18                                 4651+T132     DC    A(X132)             address of test routine
00004EE4  0084                                     4652+         DC    H'132'              test number
00004EE6  00                                       4653+         DC    XL1'00'
00004EE7  09                                       4654+         DC    HL1'9'              &M3
00004EE8  00                                       4655+         DC    HL1'0'              &M4
00004EE9  03                                       4656+         DC    HL1'3'              cc
00004EEA  0E                                       4657+         DC    HL1'14'             cc failed mask
00004EEB  E5C3E5C2 C7404040                        4658+         DC    CL8'VCVBG'          instruction name
00004EF4  00000010                                 4659+         DC    A(16)               result length
00004EF8  00004F3C                                 4660+REA132   DC    A(RE132)            result address
00004F00  00000000 00000000                        4661+         DS    FD                        gap
00004F08  00000000 00000000                        4662+R1O132   DS    FD                  R1 OUTPUT
00004F10  00000000 00000000                        4663+         DS    FD                        gap
                                                   4664+*                                  INSTRUCTION UNDER TEST ROUTINE
00004F18                                           4665+X132     DS    0F
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004F18  E310 8EF0 0004                000010F0  4666+         LG    R1,R1FUDGE        pollute R1
00004F1E  E710 5064 0006                00004F44  4667+         VL    V1,RE132+8        get V1 source
00004F24  E611 0090 0052                          4668+         VCVBG R1,V1,9,0         test instruction
00004F2A  E310 5028 0024                00004F08  4669+         STG   R1,R1O132         save
00004F30  B98D 0020                               4670+         EPSW  R2,R0             exptract psw
00004F34  5020 8EE4                     000010E4  4671+         ST    R2,CCPSW              to save CC
00004F38  07FB                                    4672+         BR    R11               return
00004F3C                                          4673+RE132    DC    0F
00004F3C                                          4674+         DROP  R5
00004F3C  00000000 00000000                       4675          DC    XL08'0000000000000000'                    R1 result
00004F44  00000000 00018446                       4676          DC    XL16'00000000000184467440737095516 16D'   V1 source
00004F4C  74407370 9551616D
                                                  4677
                                                  4678          VRR_I VCVBG,9,0,3                               -(ULONG_MAX +11)
00004F58                                          4679+         DS    0FD
00004F58                        00004F58          4680+         USING *,R5              base for test data and test routine
00004F58  00004F90                                4681+T133     DC    A(X133)           address of test routine
00004F5C  0085                                    4682+         DC    H'133'            test number
00004F5E  00                                      4683+         DC    XL1'00'
00004F5F  09                                      4684+         DC    HL1'9'            &M3
00004F60  00                                      4685+         DC    HL1'0'            &M4
00004F61  03                                      4686+         DC    HL1'3'            cc
00004F62  0E                                      4687+         DC    HL1'14'           cc failed mask
00004F63  E5C3E5C2 C7404040                       4688+         DC    CL8'VCVBG'        instruction name
00004F6C  00000010                                4689+         DC    A(16)             result length
00004F70  00004FB4                                4690+REA133   DC    A(RE133)          result address
00004F78  00000000 00000000                       4691+         DS    FD                      gap
00004F80  00000000 00000000                       4692+R1O133   DS    FD                R1 OUTPUT
00004F88  00000000 00000000                       4693+         DS    FD                      gap
                                                  4694+*                                  INSTRUCTION UNDER TEST ROUTINE
00004F90                                          4695+X133     DS    0F
00004F90  E310 8EF0 0004                000010F0  4696+         LG    R1,R1FUDGE        pollute R1
00004F96  E710 5064 0006                00004FBC  4697+         VL    V1,RE133+8        get V1 source
00004F9C  E611 0090 0052                          4698+         VCVBG R1,V1,9,0         test instruction
00004FA2  E310 5028 0024                00004F80  4699+         STG   R1,R1O133         save
00004FA8  B98D 0020                               4700+         EPSW  R2,R0             exptract psw
00004FAC  5020 8EE4                     000010E4  4701+         ST    R2,CCPSW              to save CC
00004FB0  07FB                                    4702+         BR    R11               return
00004FB4                                          4703+RE133    DC    0F
00004FB4                                          4704+         DROP  R5
00004FB4  00000000 0000000A                       4705          DC    XL08'000000000000000A'                    R1 result
00004FBC  00000000 00018446                       4706          DC    XL16'00000000000184467440737095516 26D'   V1 source
00004FC4  74407370 9551626D
                                                  4707
                                                  4708          VRR_I VCVBG,9,0,0                               BAD SIGN - 0
00004FD0                                          4709+         DS    0FD
00004FD0                        00004FD0          4710+         USING *,R5              base for test data and test routine
00004FD0  00005008                                4711+T134     DC    A(X134)           address of test routine
00004FD4  0086                                    4712+         DC    H'134'            test number
00004FD6  00                                      4713+         DC    XL1'00'
00004FD7  09                                      4714+         DC    HL1'9'            &M3
00004FD8  00                                      4715+         DC    HL1'0'            &M4
00004FD9  00                                      4716+         DC    HL1'0'            cc
00004FDA  07                                      4717+         DC    HL1'7'            cc failed mask
00004FDB  E5C3E5C2 C7404040                       4718+         DC    CL8'VCVBG'        instruction name
00004FE4  00000010                                4719+         DC    A(16)             result length
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00004FE8  0000502C                                 4720+REA134   DC    A(RE134)          result address
00004FF0  00000000 00000000                        4721+         DS    FD                      gap
00004FF8  00000000 00000000                        4722+R1O134   DS    FD                R1 OUTPUT
00005000  00000000 00000000                        4723+         DS    FD                      gap
                                                   4724+*                                INSTRUCTION UNDER TEST ROUTINE
00005008                                           4725+X134     DS    0F
00005008  E310 8EF0 0004                 000010F0  4726+         LG    R1,R1FUDGE        pollute R1
0000500E  E710 5064 0006                 00005034  4727+         VL    V1,RE134+8        get V1 source
00005014  E611 0090 0052                           4728+         VCVBG R1,V1,9,0         test instruction
0000501A  E310 5028 0024                 00004FF8  4729+         STG   R1,R1O134         save
00005020  B98D 0020                                4730+         EPSW  R2,R0             exptract psw
00005024  5020 8EE4                      000010E4  4731+         ST    R2,CCPSW              to save CC
00005028  07FB                                     4732+         BR    R11               return
0000502C                                           4733+RE134    DC    0F
0000502C                                           4734+         DROP  R5
0000502C  00000000 0000000A                        4735          DC    XL08'000000000000000A'                    R1 result
00005034  00000000 00000000                        4736          DC    XL16'00000000000000000000000000000100'    V1 source
0000503C  00000000 00000100
                                                   4737
                                                   4738 * VCVBG  m3=9 (p2=1, lb=0, cs=1)       m4=4 (iom=0, orc=1)
                                                   4739 *        cc=3 (overflow)
                                                   4740          VRR_I VCVBG,9,4,3                               LONG_MIN
00005048                                           4741+         DS    0FD
00005048                         00005048          4742+         USING *,R5              base for test data and test routine
00005048  00005080                                 4743+T135     DC    A(X135)           address of test routine
0000504C  0087                                     4744+         DC    H'135'            test number
0000504E  00                                       4745+         DC    XL1'00'
0000504F  09                                       4746+         DC    HL1'9'            &M3
00005050  04                                       4747+         DC    HL1'4'            &M4
00005051  03                                       4748+         DC    HL1'3'            cc
00005052  0E                                       4749+         DC    HL1'14'           cc failed mask
00005053  E5C3E5C2 C7404040                        4750+         DC    CL8'VCVBG'        instruction name
0000505C  00000010                                 4751+         DC    A(16)             result length
00005060  000050A4                                 4752+REA135   DC    A(RE135)          result address
00005068  00000000 00000000                        4753+         DS    FD                      gap
00005070  00000000 00000000                        4754+R1O135   DS    FD                R1 OUTPUT
00005078  00000000 00000000                        4755+         DS    FD                      gap
                                                   4756+*                                INSTRUCTION UNDER TEST ROUTINE
00005080                                           4757+X135     DS    0F
00005080  E310 8EF0 0004                 000010F0  4758+         LG    R1,R1FUDGE        pollute R1
00005086  E710 5064 0006                 000050AC  4759+         VL    V1,RE135+8        get V1 source
0000508C  E611 0094 0052                           4760+         VCVBG R1,V1,9,4         test instruction
00005092  E310 5028 0024                 00005070  4761+         STG   R1,R1O135         save
00005098  B98D 0020                                4762+         EPSW  R2,R0             exptract psw
0000509C  5020 8EE4                      000010E4  4763+         ST    R2,CCPSW              to save CC
000050A0  07FB                                     4764+         BR    R11               return
000050A4                                           4765+RE135    DC    0F
000050A4                                           4766+         DROP  R5
000050A4  00000000 00000000                        4767          DC    XL08'0000000000000000'                    R1 result
000050AC  00000000 00009223                        4768          DC    XL16'00000000000092233720368547758 08D'   V1 source
000050B4  37203685 4775808D
                                                   4769
                                                   4770          VRR_I VCVBG,9,4,3                               LONG_MIN-1
000050C0                                           4771+         DS    0FD
000050C0                         000050C0          4772+         USING *,R5              base for test data and test routine
000050C0  000050F8                                 4773+T136     DC    A(X136)           address of test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000050C4  0088                                     4774+          DC    H'136'             test number
000050C6  00                                       4775+          DC    XL1'00'
000050C7  09                                       4776+          DC    HL1'9'             &M3
000050C8  04                                       4777+          DC    HL1'4'             &M4
000050C9  03                                       4778+          DC    HL1'3'             cc
000050CA  0E                                       4779+          DC    HL1'14'            cc failed mask
000050CB  E5C3E5C2 C7404040                        4780+          DC    CL8'VCVBG'         instruction name
000050D4  00000010                                 4781+          DC    A(16)              result length
000050D8  0000511C                                 4782+REA136    DC    A(RE136)           result address
000050E0  00000000 00000000                        4783+          DS    FD                       gap
000050E8  00000000 00000000                        4784+R1O136    DS    FD                 R1 OUTPUT
000050F0  00000000 00000000                        4785+          DS    FD                       gap
                                                   4786+*                                  INSTRUCTION UNDER TEST ROUTINE
000050F8                                           4787+X136      DS    0F
000050F8  E310 8EF0 0004                 000010F0  4788+          LG    R1,R1FUDGE         pollute R1
000050FE  E710 5064 0006                 00005124  4789+          VL    V1,RE136+8         get V1 source
00005104  E611 0094 0052                           4790+          VCVBG R1,V1,9,4          test instruction
0000510A  E310 5028 0024                 000050E8  4791+          STG   R1,R1O136          save
00005110  B98D 0020                                4792+          EPSW  R2,R0              exptract psw
00005114  5020 8EE4                      000010E4  4793+          ST    R2,CCPSW               to save CC
00005118  07FB                                     4794+          BR    R11                return
0000511C                                           4795+RE136     DC    0F
0000511C                                           4796+          DROP  R5
0000511C  00000000 00000000                        4797           DC    XL08'0000000000000000'                    R1 result
00005124  00000000 00009223                        4798           DC    XL16'00000000000092233720368547758 09D'   V1 source
0000512C  37203685 4775809D
                                                   4799
                                                   4800           VRR_I VCVBG,9,4,3                               ULONG_MAX +1
00005138                                           4801+          DS    0FD
00005138                 00005138                  4802+          USING *,R5               base for test data and test routine
00005138  00005170                                 4803+T137      DC    A(X137)            address of test routine
0000513C  0089                                     4804+          DC    H'137'             test number
0000513E  00                                       4805+          DC    XL1'00'
0000513F  09                                       4806+          DC    HL1'9'             &M3
00005140  04                                       4807+          DC    HL1'4'             &M4
00005141  03                                       4808+          DC    HL1'3'             cc
00005142  0E                                       4809+          DC    HL1'14'            cc failed mask
00005143  E5C3E5C2 C7404040                        4810+          DC    CL8'VCVBG'         instruction name
0000514C  00000010                                 4811+          DC    A(16)              result length
00005150  00005194                                 4812+REA137    DC    A(RE137)           result address
00005158  00000000 00000000                        4813+          DS    FD                       gap
00005160  00000000 00000000                        4814+R1O137    DS    FD                 R1 OUTPUT
00005168  00000000 00000000                        4815+          DS    FD                       gap
                                                   4816+*                                  INSTRUCTION UNDER TEST ROUTINE
00005170                                           4817+X137      DS    0F
00005170  E310 8EF0 0004                 000010F0  4818+          LG    R1,R1FUDGE         pollute R1
00005176  E710 5064 0006                 0000519C  4819+          VL    V1,RE137+8         get V1 source
0000517C  E611 0094 0052                           4820+          VCVBG R1,V1,9,4          test instruction
00005182  E310 5028 0024                 00005160  4821+          STG   R1,R1O137          save
00005188  B98D 0020                                4822+          EPSW  R2,R0              exptract psw
0000518C  5020 8EE4                      000010E4  4823+          ST    R2,CCPSW               to save CC
00005190  07FB                                     4824+          BR    R11                return
00005194                                           4825+RE137     DC    0F
00005194                                           4826+          DROP  R5
00005194  00000000 00000000                        4827           DC    XL08'0000000000000000'                    R1 result
0000519C  00000000 00018446                        4828           DC    XL16'00000000000184467440737095516 16C'   V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000051A4  74407370 9551616C
                                                   4829
                                                   4830          VRR_I VCVBG,9,4,3                                ULONG_MAX +11
000051B0                                           4831+         DS    0FD
000051B0                       000051B0            4832+         USING *,R5              base for test data and test routine
000051B0  000051E8                                 4833+T138     DC    A(X138)           address of test routine
000051B4  008A                                     4834+         DC    H'138'            test number
000051B6  00                                       4835+         DC    XL1'00'
000051B7  09                                       4836+         DC    HL1'9'            &M3
000051B8  04                                       4837+         DC    HL1'4'            &M4
000051B9  03                                       4838+         DC    HL1'3'            cc
000051BA  0E                                       4839+         DC    HL1'14'           cc failed mask
000051BB  E5C3E5C2 C7404040                        4840+         DC    CL8'VCVBG'        instruction name
000051C4  00000010                                 4841+         DC    A(16)             result length
000051C8  0000520C                                 4842+REA138   DC    A(RE138)          result address
000051D0  00000000 00000000                        4843+         DS    FD                      gap
000051D8  00000000 00000000                        4844+R1O138   DS    FD                R1 OUTPUT
000051E0  00000000 00000000                        4845+         DS    FD                      gap
                                                   4846+*                                  INSTRUCTION UNDER TEST ROUTINE
000051E8                                           4847+X138     DS    0F
000051E8  E310 8EF0 0004                000010F0   4848+         LG    R1,R1FUDGE        pollute R1
000051EE  E710 5064 0006                00005214   4849+         VL    V1,RE138+8        get V1 source
000051F4  E611 0094 0052                           4850+         VCVBG R1,V1,9,4         test instruction
000051FA  E310 5028 0024                000051D8   4851+         STG   R1,R1O138         save
00005200  B98D 0020                                4852+         EPSW  R2,R0             exptract psw
00005204  5020 8EE4                     000010E4   4853+         ST    R2,CCPSW              to save CC
00005208  07FB                                     4854+         BR    R11               return
0000520C                                           4855+RE138    DC    0F
0000520C                                           4856+         DROP  R5
0000520C  00000000 00000000                        4857          DC    XL08'0000000000000000'                    R1 result
00005214  00000000 00018446                        4858          DC    XL16'00000000000184467440737095516 26C'   V1 source
0000521C  74407370 9551626C
                                                   4859
                                                   4860          VRR_I VCVBG,9,4,3                              -(ULONG_MAX +1)
00005228                                           4861+         DS    0FD
00005228                       00005228            4862+         USING *,R5              base for test data and test routine
00005228  00005260                                 4863+T139     DC    A(X139)           address of test routine
0000522C  008B                                     4864+         DC    H'139'            test number
0000522E  00                                       4865+         DC    XL1'00'
0000522F  09                                       4866+         DC    HL1'9'            &M3
00005230  04                                       4867+         DC    HL1'4'            &M4
00005231  03                                       4868+         DC    HL1'3'            cc
00005232  0E                                       4869+         DC    HL1'14'           cc failed mask
00005233  E5C3E5C2 C7404040                        4870+         DC    CL8'VCVBG'        instruction name
0000523C  00000010                                 4871+         DC    A(16)             result length
00005240  00005284                                 4872+REA139   DC    A(RE139)          result address
00005248  00000000 00000000                        4873+         DS    FD                      gap
00005250  00000000 00000000                        4874+R1O139   DS    FD                R1 OUTPUT
00005258  00000000 00000000                        4875+         DS    FD                      gap
                                                   4876+*                                  INSTRUCTION UNDER TEST ROUTINE
00005260                                           4877+X139     DS    0F
00005260  E310 8EF0 0004                000010F0   4878+         LG    R1,R1FUDGE        pollute R1
00005266  E710 5064 0006                0000528C   4879+         VL    V1,RE139+8        get V1 source
0000526C  E611 0094 0052                           4880+         VCVBG R1,V1,9,4         test instruction
00005272  E310 5028 0024                00005250   4881+         STG   R1,R1O139         save
00005278  B98D 0020                                4882+         EPSW  R2,R0             exptract psw
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000527C  5020 8EE4                     000010E4  4883+         ST    R2,CCPSW              to save CC
00005280  07FB                                    4884+         BR    R11                 return
00005284                                          4885+RE139    DC    0F
00005284                                          4886+         DROP  R5
00005284  00000000 00000000                       4887          DC    XL08'0000000000000000'                    R1 result
0000528C  00000000 00018446                       4888          DC    XL16'00000000000184467440737095516 16D'   V1 source
00005294  74407370 9551616D
                                                  4889
                                                  4890          VRR_I VCVBG,9,4,3                             -(ULONG_MAX +11)
000052A0                                          4891+         DS    0FD
000052A0                        000052A0          4892+         USING *,R5                base for test data and test routine
000052A0  000052D8                                4893+T140     DC    A(X140)             address of test routine
000052A4  008C                                    4894+         DC    H'140'              test number
000052A6  00                                      4895+         DC    XL1'00'
000052A7  09                                      4896+         DC    HL1'9'              &M3
000052A8  04                                      4897+         DC    HL1'4'              &M4
000052A9  03                                      4898+         DC    HL1'3'              cc
000052AA  0E                                      4899+         DC    HL1'14'             cc failed mask
000052AB  E5C3E5C2 C7404040                       4900+         DC    CL8'VCVBG'          instruction name
000052B4  00000010                                4901+         DC    A(16)               result length
000052B8  000052FC                                4902+REA140   DC    A(RE140)            result address
000052C0  00000000 00000000                       4903+         DS    FD                        gap
000052C8  00000000 00000000                       4904+R1O140   DS    FD                  R1 OUTPUT
000052D0  00000000 00000000                       4905+         DS    FD                        gap
                                                  4906+*                                  INSTRUCTION UNDER TEST ROUTINE
000052D8                                          4907+X140     DS    0F
000052D8  E310 8EF0 0004                000010F0  4908+         LG    R1,R1FUDGE          pollute R1
000052DE  E710 5064 0006                00005304  4909+         VL    V1,RE140+8          get V1 source
000052E4  E611 0094 0052                          4910+         VCVBG R1,V1,9,4           test instruction
000052EA  E310 5028 0024                000052C8  4911+         STG   R1,R1O140           save
000052F0  B98D 0020                               4912+         EPSW  R2,R0               exptract psw
000052F4  5020 8EE4                     000010E4  4913+         ST    R2,CCPSW              to save CC
000052F8  07FB                                    4914+         BR    R11                 return
000052FC                                          4915+RE140    DC    0F
000052FC                                          4916+         DROP  R5
000052FC  00000000 00000000                       4917          DC    XL08'0000000000000000'                    R1 result
00005304  00000000 00018446                       4918          DC    XL16'00000000000184467440737095516 26D'   V1 source
0000530C  74407370 9551626D
                                                  4919
                                                  4920 *                                                          Bad Sign - 0
                                                  4921          VRR_I VCVBG,9,4,3                             -(ULONG_MAX +11)
00005318                                          4922+         DS    0FD
00005318                        00005318          4923+         USING *,R5                base for test data and test routine
00005318  00005350                                4924+T141     DC    A(X141)             address of test routine
0000531C  008D                                    4925+         DC    H'141'              test number
0000531E  00                                      4926+         DC    XL1'00'
0000531F  09                                      4927+         DC    HL1'9'              &M3
00005320  04                                      4928+         DC    HL1'4'              &M4
00005321  03                                      4929+         DC    HL1'3'              cc
00005322  0E                                      4930+         DC    HL1'14'             cc failed mask
00005323  E5C3E5C2 C7404040                       4931+         DC    CL8'VCVBG'          instruction name
0000532C  00000010                                4932+         DC    A(16)               result length
00005330  00005374                                4933+REA141   DC    A(RE141)            result address
00005338  00000000 00000000                       4934+         DS    FD                        gap
00005340  00000000 00000000                       4935+R1O141   DS    FD                  R1 OUTPUT
00005348  00000000 00000000                       4936+         DS    FD                        gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   4937+*                                INSTRUCTION UNDER TEST ROUTINE
00005350                                           4938+X141     DS    0F
00005350  E310 8EF0 0004                 000010F0  4939+         LG    R1,R1FUDGE        pollute R1
00005356  E710 5064 0006                 0000537C  4940+         VL    V1,RE141+8        get V1 source
0000535C  E611 0094 0052                           4941+         VCVBG R1,V1,9,4         test instruction
00005362  E310 5028 0024                 00005340  4942+         STG   R1,R1O141         save
00005368  B98D 0020                                4943+         EPSW  R2,R0             exptract psw
0000536C  5020 8EE4                      000010E4  4944+         ST    R2,CCPSW              to save CC
00005370  07FB                                     4945+         BR    R11               return
00005374                                           4946+RE141    DC    0F
00005374                                           4947+         DROP  R5
00005374  00000000 00000000                        4948          DC    XL08'0000000000000000'                    R1 result
0000537C  00000000 00018446                        4949          DC    XL16'00000000000184467440737095516260'    V1 source
00005384  74407370 95516260
                                                   4950
                                                   4951 * VCVBG  m3=11 (p2=1, lb=1, cs=1)      m4=0 (iom=0, orc=0)
                                                   4952 *        cc=0 (no overflow)
                                                   4953          VRR_I VCVBG,11,0,0                              ULONG_MAX
00005390                                           4954+         DS    0FD
00005390                         00005390          4955+         USING *,R5              base for test data and test routine
00005390  000053C8                                 4956+T142     DC    A(X142)           address of test routine
00005394  008E                                     4957+         DC    H'142'            test number
00005396  00                                       4958+         DC    XL1'00'
00005397  0B                                       4959+         DC    HL1'11'           &M3
00005398  00                                       4960+         DC    HL1'0'            &M4
00005399  00                                       4961+         DC    HL1'0'            cc
0000539A  07                                       4962+         DC    HL1'7'            cc failed mask
0000539B  E5C3E5C2 C7404040                        4963+         DC    CL8'VCVBG'        instruction name
000053A4  00000010                                 4964+         DC    A(16)             result length
000053A8  000053EC                                 4965+REA142   DC    A(RE142)          result address
000053B0  00000000 00000000                        4966+         DS    FD                      gap
000053B8  00000000 00000000                        4967+R1O142   DS    FD                R1 OUTPUT
000053C0  00000000 00000000                        4968+         DS    FD                      gap
                                                   4969+*                                INSTRUCTION UNDER TEST ROUTINE
000053C8                                           4970+X142     DS    0F
000053C8  E310 8EF0 0004                 000010F0  4971+         LG    R1,R1FUDGE        pollute R1
000053CE  E710 5064 0006                 000053F4  4972+         VL    V1,RE142+8        get V1 source
000053D4  E611 00B0 0052                           4973+         VCVBG R1,V1,11,0        test instruction
000053DA  E310 5028 0024                 000053B8  4974+         STG   R1,R1O142         save
000053E0  B98D 0020                                4975+         EPSW  R2,R0             exptract psw
000053E4  5020 8EE4                      000010E4  4976+         ST    R2,CCPSW              to save CC
000053E8  07FB                                     4977+         BR    R11               return
000053EC                                           4978+RE142    DC    0F
000053EC                                           4979+         DROP  R5
000053EC  FFFFFFFF FFFFFFFF                        4980          DC    XL08'FFFFFFFFFFFFFFFF'                    R1 result
000053F4  00000000 00018446                        4981          DC    XL16'00000000000184467440737095516 15C'   V1 source
000053FC  74407370 9551615C
                                                   4982
                                                   4983          VRR_I VCVBG,11,0,0
00005408                                           4984+         DS    0FD
00005408                         00005408          4985+         USING *,R5              base for test data and test routine
00005408  00005440                                 4986+T143     DC    A(X143)           address of test routine
0000540C  008F                                     4987+         DC    H'143'            test number
0000540E  00                                       4988+         DC    XL1'00'
0000540F  0B                                       4989+         DC    HL1'11'           &M3
00005410  00                                       4990+         DC    HL1'0'            &M4
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005411  00                                       4991+         DC    HL1'0'            cc
00005412  07                                       4992+         DC    HL1'7'            cc failed mask
00005413  E5C3E5C2 C7404040                        4993+         DC    CL8'VCVBG'        instruction name
0000541C  00000010                                 4994+         DC    A(16)             result length
00005420  00005464                                 4995+REA143   DC    A(RE143)          result address
00005428  00000000 00000000                        4996+         DS    FD                      gap
00005430  00000000 00000000                        4997+R1O143   DS    FD                R1 OUTPUT
00005438  00000000 00000000                        4998+         DS    FD                      gap
                                                   4999+*                                  INSTRUCTION UNDER TEST ROUTINE
00005440                                           5000+X143     DS    0F
00005440  E310 8EF0 0004                000010F0   5001+         LG    R1,R1FUDGE        pollute R1
00005446  E710 5064 0006                0000546C   5002+         VL    V1,RE143+8        get V1 source
0000544C  E611 00B0 0052                           5003+         VCVBG R1,V1,11,0        test instruction
00005452  E310 5028 0024                00005430   5004+         STG   R1,R1O143         save
00005458  B98D 0020                                5005+         EPSW  R2,R0             exptract psw
0000545C  5020 8EE4                     000010E4   5006+         ST    R2,CCPSW              to save CC
00005460  07FB                                     5007+         BR    R11               return
00005464                                           5008+RE143    DC    0F
00005464                                           5009+         DROP  R5
00005464  00000000 0000000A                        5010          DC    XL08'000000000000000A'                    R1 result
0000546C  00000000 00000000                        5011          DC    XL16'00000000000000000000000000000010C'   V1 source
00005474  00000000 0000010C
                                                   5012
                                                   5013          VRR_I VCVBG,11,0,0
00005480                                           5014+         DS    0FD
00005480                        00005480           5015+         USING *,R5              base for test data and test routine
00005480  000054B8                                 5016+T144     DC    A(X144)           address of test routine
00005484  0090                                     5017+         DC    H'144'            test number
00005486  00                                       5018+         DC    XL1'00'
00005487  0B                                       5019+         DC    HL1'11'           &M3
00005488  00                                       5020+         DC    HL1'0'            &M4
00005489  00                                       5021+         DC    HL1'0'            cc
0000548A  07                                       5022+         DC    HL1'7'            cc failed mask
0000548B  E5C3E5C2 C7404040                        5023+         DC    CL8'VCVBG'        instruction name
00005494  00000010                                 5024+         DC    A(16)             result length
00005498  000054DC                                 5025+REA144   DC    A(RE144)          result address
000054A0  00000000 00000000                        5026+         DS    FD                      gap
000054A8  00000000 00000000                        5027+R1O144   DS    FD                R1 OUTPUT
000054B0  00000000 00000000                        5028+         DS    FD                      gap
                                                   5029+*                                  INSTRUCTION UNDER TEST ROUTINE
000054B8                                           5030+X144     DS    0F
000054B8  E310 8EF0 0004                000010F0   5031+         LG    R1,R1FUDGE        pollute R1
000054BE  E710 5064 0006                000054E4   5032+         VL    V1,RE144+8        get V1 source
000054C4  E611 00B0 0052                           5033+         VCVBG R1,V1,11,0        test instruction
000054CA  E310 5028 0024                000054A8   5034+         STG   R1,R1O144         save
000054D0  B98D 0020                                5035+         EPSW  R2,R0             exptract psw
000054D4  5020 8EE4                     000010E4   5036+         ST    R2,CCPSW              to save CC
000054D8  07FB                                     5037+         BR    R11               return
000054DC                                           5038+RE144    DC    0F
000054DC                                           5039+         DROP  R5
000054DC  00000000 0000000A                        5040          DC    XL08'000000000000000A'                    R1 result
000054E4  00000000 00000000                        5041          DC    XL16'00000000000000000000000000000010D'   V1 source
000054EC  00000000 0000010D
                                                   5042
                                                   5043          VRR_I VCVBG,11,0,0
000054F8                                           5044+         DS    0FD
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000054F8                     000054F8             5045+         USING *,R5              base for test data and test routine
000054F8  00005530                                5046+T145     DC    A(X145)           address of test routine
000054FC  0091                                    5047+         DC    H'145'            test number
000054FE  00                                      5048+         DC    XL1'00'
000054FF  0B                                      5049+         DC    HL1'11'           &M3
00005500  00                                      5050+         DC    HL1'0'            &M4
00005501  00                                      5051+         DC    HL1'0'            cc
00005502  07                                      5052+         DC    HL1'7'            cc failed mask
00005503  E5C3E5C2 C7404040                       5053+         DC    CL8'VCVBG'        instruction name
0000550C  00000010                                5054+         DC    A(16)             result length
00005510  00005554                                5055+REA145   DC    A(RE145)          result address
00005518  00000000 00000000                       5056+         DS    FD                      gap
00005520  00000000 00000000                       5057+R1O145   DS    FD                R1 OUTPUT
00005528  00000000 00000000                       5058+         DS    FD                      gap
                                                  5059+*                                  INSTRUCTION UNDER TEST ROUTINE
00005530                                          5060+X145     DS    0F
00005530  E310 8EF0 0004                000010F0  5061+         LG    R1,R1FUDGE        pollute R1
00005536  E710 5064 0006                0000555C  5062+         VL    V1,RE145+8        get V1 source
0000553C  E611 00B0 0052                          5063+         VCVBG R1,V1,11,0        test instruction
00005542  E310 5028 0024                00005520  5064+         STG   R1,R1O145         save
00005548  B98D 0020                               5065+         EPSW  R2,R0             exptract psw
0000554C  5020 8EE4                     000010E4  5066+         ST    R2,CCPSW              to save CC
00005550  07FB                                    5067+         BR    R11               return
00005554                                          5068+RE145    DC    0F
00005554                                          5069+         DROP  R5
00005554  00000000 0008A160                       5070          DC    XL08'000000000008A160'                  R1 result
0000555C  00000000 00000000                       5071          DC    XL16'00000000000000000000000565600C'    V1 source
00005564  00000000 0565600C
                                                  5072
                                                  5073          VRR_I VCVBG,11,0,0
00005570                                          5074+         DS    0FD
00005570                     00005570             5075+         USING *,R5              base for test data and test routine
00005570  000055A8                                5076+T146     DC    A(X146)           address of test routine
00005574  0092                                    5077+         DC    H'146'            test number
00005576  00                                      5078+         DC    XL1'00'
00005577  0B                                      5079+         DC    HL1'11'           &M3
00005578  00                                      5080+         DC    HL1'0'            &M4
00005579  00                                      5081+         DC    HL1'0'            cc
0000557A  07                                      5082+         DC    HL1'7'            cc failed mask
0000557B  E5C3E5C2 C7404040                       5083+         DC    CL8'VCVBG'        instruction name
00005584  00000010                                5084+         DC    A(16)             result length
00005588  000055CC                                5085+REA146   DC    A(RE146)          result address
00005590  00000000 00000000                       5086+         DS    FD                      gap
00005598  00000000 00000000                       5087+R1O146   DS    FD                R1 OUTPUT
000055A0  00000000 00000000                       5088+         DS    FD                      gap
                                                  5089+*                                  INSTRUCTION UNDER TEST ROUTINE
000055A8                                          5090+X146     DS    0F
000055A8  E310 8EF0 0004                000010F0  5091+         LG    R1,R1FUDGE        pollute R1
000055AE  E710 5064 0006                000055D4  5092+         VL    V1,RE146+8        get V1 source
000055B4  E611 00B0 0052                          5093+         VCVBG R1,V1,11,0        test instruction
000055BA  E310 5028 0024                00005598  5094+         STG   R1,R1O146         save
000055C0  B98D 0020                               5095+         EPSW  R2,R0             exptract psw
000055C4  5020 8EE4                     000010E4  5096+         ST    R2,CCPSW              to save CC
000055C8  07FB                                    5097+         BR    R11               return
000055CC                                          5098+RE146    DC    0F
000055CC                                          5099+         DROP  R5
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000055CC  00000000 0008A160                        5100          DC    XL08'000000000008A160'                    R1 result
000055D4  00000000 00000000                        5101          DC    XL16'00000000000000000000000000565600D'   V1 source
000055DC  00000000 0565600D
                                                   5102
                                                   5103          VRR_I VCVBG,11,0,0                              INT_MAX
000055E8                                           5104+         DS    0FD
000055E8                      000055E8             5105+         USING *,R5              base for test data and test routine
000055E8  00005620                                 5106+T147     DC    A(X147)           address of test routine
000055EC  0093                                     5107+         DC    H'147'            test number
000055EE  00                                       5108+         DC    XL1'00'
000055EF  0B                                       5109+         DC    HL1'11'           &M3
000055F0  00                                       5110+         DC    HL1'0'            &M4
000055F1  00                                       5111+         DC    HL1'0'            cc
000055F2  07                                       5112+         DC    HL1'7'            cc failed mask
000055F3  E5C3E5C2 C7404040                        5113+         DC    CL8'VCVBG'        instruction name
000055FC  00000010                                 5114+         DC    A(16)             result length
00005600  00005644                                 5115+REA147   DC    A(RE147)          result address
00005608  00000000 00000000                        5116+         DS    FD                      gap
00005610  00000000 00000000                        5117+R1O147   DS    FD                R1 OUTPUT
00005618  00000000 00000000                        5118+         DS    FD                      gap
                                                   5119+*                                  INSTRUCTION UNDER TEST ROUTINE
00005620                                           5120+X147     DS    0F
00005620  E310 8EF0 0004                000010F0   5121+         LG    R1,R1FUDGE        pollute R1
00005626  E710 5064 0006                0000564C   5122+         VL    V1,RE147+8        get V1 source
0000562C  E611 00B0 0052                           5123+         VCVBG R1,V1,11,0        test instruction
00005632  E310 5028 0024                00005610   5124+         STG   R1,R1O147         save
00005638  B98D 0020                                5125+         EPSW  R2,R0             exptract psw
0000563C  5020 8EE4                     000010E4   5126+         ST    R2,CCPSW              to save CC
00005640  07FB                                     5127+         BR    R11               return
00005644                                           5128+RE147    DC    0F
00005644                                           5129+         DROP  R5
00005644  00000000 7FFFFFFF                        5130          DC    XL08'000000007FFFFFFF'                    R1 result
0000564C  00000000 00000000                        5131          DC    XL16'00000000000000000000002147483647C'   V1 source
00005654  00000214 7483647C
                                                   5132
                                                   5133          VRR_I VCVBG,11,0,0                              INT_MIN
00005660                                           5134+         DS    0FD
00005660                      00005660             5135+         USING *,R5              base for test data and test routine
00005660  00005698                                 5136+T148     DC    A(X148)           address of test routine
00005664  0094                                     5137+         DC    H'148'            test number
00005666  00                                       5138+         DC    XL1'00'
00005667  0B                                       5139+         DC    HL1'11'           &M3
00005668  00                                       5140+         DC    HL1'0'            &M4
00005669  00                                       5141+         DC    HL1'0'            cc
0000566A  07                                       5142+         DC    HL1'7'            cc failed mask
0000566B  E5C3E5C2 C7404040                        5143+         DC    CL8'VCVBG'        instruction name
00005674  00000010                                 5144+         DC    A(16)             result length
00005678  000056BC                                 5145+REA148   DC    A(RE148)          result address
00005680  00000000 00000000                        5146+         DS    FD                      gap
00005688  00000000 00000000                        5147+R1O148   DS    FD                R1 OUTPUT
00005690  00000000 00000000                        5148+         DS    FD                      gap
                                                   5149+*                                  INSTRUCTION UNDER TEST ROUTINE
00005698                                           5150+X148     DS    0F
00005698  E310 8EF0 0004                000010F0   5151+         LG    R1,R1FUDGE        pollute R1
0000569E  E710 5064 0006                000056C4   5152+         VL    V1,RE148+8        get V1 source
000056A4  E611 00B0 0052                           5153+         VCVBG R1,V1,11,0        test instruction
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000056AA  E310 5028 0024                00005688  5154+         STG   R1,R1O148         save
000056B0  B98D 0020                               5155+         EPSW  R2,R0              exptract psw
000056B4  5020 8EE4                     000010E4  5156+         ST    R2,CCPSW              to save CC
000056B8  07FB                                    5157+         BR    R11                return
000056BC                                          5158+RE148    DC    0F
000056BC                                          5159+         DROP  R5
000056BC  00000000 80000000                       5160          DC    XL08'0000000080000000'                    R1 result
000056C4  00000000 00000000                       5161          DC    XL16'00000000000000000000002147483648D'   V1 source
000056CC  00000214 7483648D
                                                  5162
                                                  5163          VRR_I VCVBG,11,0,0                              UINT_MAX
000056D8                                          5164+         DS    0FD
000056D8                        000056D8          5165+         USING *,R5               base for test data and test routine
000056D8  00005710                                5166+T149     DC    A(X149)            address of test routine
000056DC  0095                                    5167+         DC    H'149'             test number
000056DE  00                                      5168+         DC    XL1'00'
000056DF  0B                                      5169+         DC    HL1'11'            &M3
000056E0  00                                      5170+         DC    HL1'0'             &M4
000056E1  00                                      5171+         DC    HL1'0'             cc
000056E2  07                                      5172+         DC    HL1'7'             cc failed mask
000056E3  E5C3E5C2 C7404040                       5173+         DC    CL8'VCVBG'         instruction name
000056EC  00000010                                5174+         DC    A(16)              result length
000056F0  00005734                                5175+REA149   DC    A(RE149)           result address
000056F8  00000000 00000000                       5176+         DS    FD                       gap
00005700  00000000 00000000                       5177+R1O149   DS    FD                 R1 OUTPUT
00005708  00000000 00000000                       5178+         DS    FD                       gap
                                                  5179+*                                 INSTRUCTION UNDER TEST ROUTINE
00005710                                          5180+X149     DS    0F
00005710  E310 8EF0 0004                000010F0  5181+         LG    R1,R1FUDGE         pollute R1
00005716  E710 5064 0006                0000573C  5182+         VL    V1,RE149+8         get V1 source
0000571C  E611 00B0 0052                          5183+         VCVBG R1,V1,11,0         test instruction
00005722  E310 5028 0024                00005700  5184+         STG   R1,R1O149          save
00005728  B98D 0020                               5185+         EPSW  R2,R0              exptract psw
0000572C  5020 8EE4                     000010E4  5186+         ST    R2,CCPSW              to save CC
00005730  07FB                                    5187+         BR    R11                return
00005734                                          5188+RE149    DC    0F
00005734                                          5189+         DROP  R5
00005734  00000000 FFFFFFFF                       5190          DC    XL08'00000000FFFFFFFF'                    R1 result
0000573C  00000000 00000000                       5191          DC    XL16'00000000000000000000004294967295C'   V1 source
00005744  00000429 4967295C
                                                  5192
                                                  5193          VRR_I VCVBG,11,0,0                              UINT_MAX +1
00005750                                          5194+         DS    0FD
00005750                        00005750          5195+         USING *,R5               base for test data and test routine
00005750  00005788                                5196+T150     DC    A(X150)            address of test routine
00005754  0096                                    5197+         DC    H'150'             test number
00005756  00                                      5198+         DC    XL1'00'
00005757  0B                                      5199+         DC    HL1'11'            &M3
00005758  00                                      5200+         DC    HL1'0'             &M4
00005759  00                                      5201+         DC    HL1'0'             cc
0000575A  07                                      5202+         DC    HL1'7'             cc failed mask
0000575B  E5C3E5C2 C7404040                       5203+         DC    CL8'VCVBG'         instruction name
00005764  00000010                                5204+         DC    A(16)              result length
00005768  000057AC                                5205+REA150   DC    A(RE150)           result address
00005770  00000000 00000000                       5206+         DS    FD                       gap
00005778  00000000 00000000                       5207+R1O150   DS    FD                 R1 OUTPUT
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005780  00000000 00000000                        5208+         DS    FD                      gap
                                                   5209+*                                INSTRUCTION UNDER TEST ROUTINE
00005788                                           5210+X150     DS    0F
00005788  E310 8EF0 0004                 000010F0  5211+         LG    R1,R1FUDGE            pollute R1
0000578E  E710 5064 0006                 000057B4  5212+         VL    V1,RE150+8            get V1 source
00005794  E611 00B0 0052                           5213+         VCVBG R1,V1,11,0            test instruction
0000579A  E310 5028 0024                 00005778  5214+         STG   R1,R1O150             save
000057A0  B98D 0020                                5215+         EPSW  R2,R0                 exptract psw
000057A4  5020 8EE4                      000010E4  5216+         ST    R2,CCPSW                  to save CC
000057A8  07FB                                     5217+         BR    R11                   return
000057AC                                           5218+RE150    DC    0F
000057AC                                           5219+         DROP  R5
000057AC  00000001 00000000                        5220          DC    XL08'0000000100000000'                  R1 result
000057B4  00000000 00000000                        5221          DC    XL16'00000000000000000000004294967296C'  V1 source
000057BC  00000429 4967296C
                                                   5222
                                                   5223          VRR_I VCVBG,11,0,0
000057C8                                           5224+         DS    0FD
000057C8                         000057C8          5225+         USING *,R5                  base for test data and test routine
000057C8  00005800                                 5226+T151     DC    A(X151)               address of test routine
000057CC  0097                                     5227+         DC    H'151'                test number
000057CE  00                                       5228+         DC    XL1'00'
000057CF  0B                                       5229+         DC    HL1'11'               &M3
000057D0  00                                       5230+         DC    HL1'0'                &M4
000057D1  00                                       5231+         DC    HL1'0'                cc
000057D2  07                                       5232+         DC    HL1'7'                cc failed mask
000057D3  E5C3E5C2 C7404040                        5233+         DC    CL8'VCVBG'            instruction name
000057DC  00000010                                 5234+         DC    A(16)                 result length
000057E0  00005824                                 5235+REA151   DC    A(RE151)              result address
000057E8  00000000 00000000                        5236+         DS    FD                      gap
000057F0  00000000 00000000                        5237+R1O151   DS    FD                    R1 OUTPUT
000057F8  00000000 00000000                        5238+         DS    FD                      gap
                                                   5239+*                                INSTRUCTION UNDER TEST ROUTINE
00005800                                           5240+X151     DS    0F
00005800  E310 8EF0 0004                 000010F0  5241+         LG    R1,R1FUDGE            pollute R1
00005806  E710 5064 0006                 0000582C  5242+         VL    V1,RE151+8            get V1 source
0000580C  E611 00B0 0052                           5243+         VCVBG R1,V1,11,0            test instruction
00005812  E310 5028 0024                 000057F0  5244+         STG   R1,R1O151             save
00005818  B98D 0020                                5245+         EPSW  R2,R0                 exptract psw
0000581C  5020 8EE4                      000010E4  5246+         ST    R2,CCPSW                  to save CC
00005820  07FB                                     5247+         BR    R11                   return
00005824                                           5248+RE151    DC    0F
00005824                                           5249+         DROP  R5
00005824  00000002 DF8E1660                        5250          DC    XL08'00000002DF8E1660'                  R1 result
0000582C  00000000 00000000                        5251          DC    XL16'00000000000000000000012340565600C'  V1 source
00005834  00001234 0565600C
                                                   5252
                                                   5253          VRR_I VCVBG,11,0,0                            LONG_MAX
00005840                                           5254+         DS    0FD
00005840                         00005840          5255+         USING *,R5                  base for test data and test routine
00005840  00005878                                 5256+T152     DC    A(X152)               address of test routine
00005844  0098                                     5257+         DC    H'152'                test number
00005846  00                                       5258+         DC    XL1'00'
00005847  0B                                       5259+         DC    HL1'11'               &M3
00005848  00                                       5260+         DC    HL1'0'                &M4
00005849  00                                       5261+         DC    HL1'0'                cc
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

0000584A  07                                       5262+         DC    HL1'7'            cc failed mask
0000584B  E5C3E5C2 C7404040                        5263+         DC    CL8'VCVBG'        instruction name
00005854  00000010                                 5264+         DC    A(16)             result length
00005858  0000589C                                 5265+REA152   DC    A(RE152)          result address
00005860  00000000 00000000                        5266+         DS    FD                      gap
00005868  00000000 00000000                        5267+R1O152   DS    FD                R1 OUTPUT
00005870  00000000 00000000                        5268+         DS    FD                      gap
                                                   5269+*                                  INSTRUCTION UNDER TEST ROUTINE
00005878                                           5270+X152     DS    0F
00005878  E310 8EF0 0004                 000010F0  5271+         LG    R1,R1FUDGE        pollute R1
0000587E  E710 5064 0006                 000058A4  5272+         VL    V1,RE152+8        get V1 source
00005884  E611 00B0 0052                           5273+         VCVBG R1,V1,11,0        test instruction
0000588A  E310 5028 0024                 00005868  5274+         STG   R1,R1O152         save
00005890  B98D 0020                                5275+         EPSW  R2,R0             exptract psw
00005894  5020 8EE4                      000010E4  5276+         ST    R2,CCPSW              to save CC
00005898  07FB                                     5277+         BR    R11               return
0000589C                                           5278+RE152    DC    0F
0000589C                                           5279+         DROP  R5
0000589C  7FFFFFFF FFFFFFFF                        5280          DC    XL08'7FFFFFFFFFFFFFFF'                    R1 result
000058A4  00000000 00009223                        5281          DC    XL16'00000000000092233720368547758 07C'   V1 source
000058AC  37203685 4775807C
                                                   5282
                                                   5283          VRR_I VCVBG,11,0,0                              LONG_MIN
000058B8                                           5284+         DS    0FD
000058B8                         000058B8          5285+         USING *,R5              base for test data and test routine
000058B8  000058F0                                 5286+T153     DC    A(X153)           address of test routine
000058BC  0099                                     5287+         DC    H'153'            test number
000058BE  00                                       5288+         DC    XL1'00'
000058BF  0B                                       5289+         DC    HL1'11'           &M3
000058C0  00                                       5290+         DC    HL1'0'            &M4
000058C1  00                                       5291+         DC    HL1'0'            cc
000058C2  07                                       5292+         DC    HL1'7'            cc failed mask
000058C3  E5C3E5C2 C7404040                        5293+         DC    CL8'VCVBG'        instruction name
000058CC  00000010                                 5294+         DC    A(16)             result length
000058D0  00005914                                 5295+REA153   DC    A(RE153)          result address
000058D8  00000000 00000000                        5296+         DS    FD                      gap
000058E0  00000000 00000000                        5297+R1O153   DS    FD                R1 OUTPUT
000058E8  00000000 00000000                        5298+         DS    FD                      gap
                                                   5299+*                                  INSTRUCTION UNDER TEST ROUTINE
000058F0                                           5300+X153     DS    0F
000058F0  E310 8EF0 0004                 000010F0  5301+         LG    R1,R1FUDGE        pollute R1
000058F6  E710 5064 0006                 0000591C  5302+         VL    V1,RE153+8        get V1 source
000058FC  E611 00B0 0052                           5303+         VCVBG R1,V1,11,0        test instruction
00005902  E310 5028 0024                 000058E0  5304+         STG   R1,R1O153         save
00005908  B98D 0020                                5305+         EPSW  R2,R0             exptract psw
0000590C  5020 8EE4                      000010E4  5306+         ST    R2,CCPSW              to save CC
00005910  07FB                                     5307+         BR    R11               return
00005914                                           5308+RE153    DC    0F
00005914                                           5309+         DROP  R5
00005914  80000000 00000000                        5310          DC    XL08'8000000000000000'                    R1 result
0000591C  00000000 00009223                        5311          DC    XL16'00000000000092233720368547758 08D'   V1 source
00005924  37203685 4775808D
                                                   5312
                                                   5313          VRR_I VCVBG,11,0,0                              LONG_MIN-1
00005930                                           5314+         DS    0FD
00005930                         00005930          5315+         USING *,R5              base for test data and test routine
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005930  00005968                                 5316+T154     DC    A(X154)           address of test routine
00005934  009A                                     5317+         DC    H'154'            test number
00005936  00                                       5318+         DC    XL1'00'
00005937  0B                                       5319+         DC    HL1'11'           &M3
00005938  00                                       5320+         DC    HL1'0'            &M4
00005939  00                                       5321+         DC    HL1'0'            cc
0000593A  07                                       5322+         DC    HL1'7'            cc failed mask
0000593B  E5C3E5C2 C7404040                        5323+         DC    CL8'VCVBG'        instruction name
00005944  00000010                                 5324+         DC    A(16)             result length
00005948  0000598C                                 5325+REA154   DC    A(RE154)          result address
00005950  00000000 00000000                        5326+         DS    FD                      gap
00005958  00000000 00000000                        5327+R1O154   DS    FD                R1 OUTPUT
00005960  00000000 00000000                        5328+         DS    FD                      gap
                                                   5329+*                                  INSTRUCTION UNDER TEST ROUTINE
00005968                                           5330+X154     DS    0F
00005968  E310 8EF0 0004                000010F0   5331+         LG    R1,R1FUDGE        pollute R1
0000596E  E710 5064 0006                00005994   5332+         VL    V1,RE154+8        get V1 source
00005974  E611 00B0 0052                           5333+         VCVBG R1,V1,11,0        test instruction
0000597A  E310 5028 0024                00005958   5334+         STG   R1,R1O154         save
00005980  B98D 0020                                5335+         EPSW  R2,R0             exptract psw
00005984  5020 8EE4                     000010E4   5336+         ST    R2,CCPSW              to save CC
00005988  07FB                                     5337+         BR    R11               return
0000598C                                           5338+RE154    DC    0F
0000598C                                           5339+         DROP  R5
0000598C  80000000 00000001                        5340          DC    XL08'8000000000000001'                    R1 result
00005994  00000000 00009223                        5341          DC    XL16'00000000000092233720368547758 09D'   V1 source
0000599C  37203685 4775809D
                                                   5342
                                                   5343          VRR_I VCVBG,11,0,0                              BAD SIGN - 0
000059A8                                           5344+         DS    0FD
000059A8                        000059A8           5345+         USING *,R5              base for test data and test routine
000059A8  000059E0                                 5346+T155     DC    A(X155)           address of test routine
000059AC  009B                                     5347+         DC    H'155'            test number
000059AE  00                                       5348+         DC    XL1'00'
000059AF  0B                                       5349+         DC    HL1'11'           &M3
000059B0  00                                       5350+         DC    HL1'0'            &M4
000059B1  00                                       5351+         DC    HL1'0'            cc
000059B2  07                                       5352+         DC    HL1'7'            cc failed mask
000059B3  E5C3E5C2 C7404040                        5353+         DC    CL8'VCVBG'        instruction name
000059BC  00000010                                 5354+         DC    A(16)             result length
000059C0  00005A04                                 5355+REA155   DC    A(RE155)          result address
000059C8  00000000 00000000                        5356+         DS    FD                      gap
000059D0  00000000 00000000                        5357+R1O155   DS    FD                R1 OUTPUT
000059D8  00000000 00000000                        5358+         DS    FD                      gap
                                                   5359+*                                  INSTRUCTION UNDER TEST ROUTINE
000059E0                                           5360+X155     DS    0F
000059E0  E310 8EF0 0004                000010F0   5361+         LG    R1,R1FUDGE        pollute R1
000059E6  E710 5064 0006                00005A0C   5362+         VL    V1,RE155+8        get V1 source
000059EC  E611 00B0 0052                           5363+         VCVBG R1,V1,11,0        test instruction
000059F2  E310 5028 0024                000059D0   5364+         STG   R1,R1O155         save
000059F8  B98D 0020                                5365+         EPSW  R2,R0             exptract psw
000059FC  5020 8EE4                     000010E4   5366+         ST    R2,CCPSW              to save CC
00005A00  07FB                                     5367+         BR    R11               return
00005A04                                           5368+RE155    DC    0F
00005A04                                           5369+         DROP  R5
00005A04  00000000 0000000A                        5370          DC    XL08'000000000000000A'                    R1 result
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005A0C  00000000 00000000                        5371          DC    XL16'00000000000000000000000000000100'   V1 source
00005A14  00000000 00000100
                                                   5372
                                                   5373 * VCVBG  m3=11 (p2=1, lb=1, cs=1)       m4=0 (iom=0, orc=0)
                                                   5374 *        cc=3 (overflow)
                                                   5375          VRR_I VCVBG,11,0,3                            ULONG_MAX +1
00005A20                                           5376+         DS    0FD
00005A20                          00005A20         5377+         USING *,R5               base for test data and test routine
00005A20  00005A58                                 5378+T156     DC    A(X156)            address of test routine
00005A24  009C                                     5379+         DC    H'156'             test number
00005A26  00                                       5380+         DC    XL1'00'
00005A27  0B                                       5381+         DC    HL1'11'            &M3
00005A28  00                                       5382+         DC    HL1'0'             &M4
00005A29  03                                       5383+         DC    HL1'3'             cc
00005A2A  0E                                       5384+         DC    HL1'14'            cc failed mask
00005A2B  E5C3E5C2 C7404040                        5385+         DC    CL8'VCVBG'         instruction name
00005A34  00000010                                 5386+         DC    A(16)              result length
00005A38  00005A7C                                 5387+REA156   DC    A(RE156)           result address
00005A40  00000000 00000000                        5388+         DS    FD                       gap
00005A48  00000000 00000000                        5389+R1O156   DS    FD                 R1 OUTPUT
00005A50  00000000 00000000                        5390+         DS    FD                       gap
                                                   5391+*                                 INSTRUCTION UNDER TEST ROUTINE
00005A58                                           5392+X156     DS    0F
00005A58  E310 8EF0 0004                000010F0   5393+         LG    R1,R1FUDGE         pollute R1
00005A5E  E710 5064 0006                00005A84   5394+         VL    V1,RE156+8         get V1 source
00005A64  E611 00B0 0052                           5395+         VCVBG R1,V1,11,0         test instruction
00005A6A  E310 5028 0024                00005A48   5396+         STG   R1,R1O156          save
00005A70  B98D 0020                                5397+         EPSW  R2,R0              exptract psw
00005A74  5020 8EE4                     000010E4   5398+         ST    R2,CCPSW                 to save CC
00005A78  07FB                                     5399+         BR    R11                return
00005A7C                                           5400+RE156    DC    0F
00005A7C                                           5401+         DROP  R5
00005A7C  00000000 00000000                        5402          DC    XL08'0000000000000000'                   R1 result
00005A84  00000000 00018446                        5403          DC    XL16'00000000000184467440737095516 16C'  V1 source
00005A8C  74407370 9551616C
                                                   5404
                                                   5405          VRR_I VCVBG,11,0,3                            ULONG_MAX +11
00005A98                                           5406+         DS    0FD
00005A98                          00005A98         5407+         USING *,R5               base for test data and test routine
00005A98  00005AD0                                 5408+T157     DC    A(X157)            address of test routine
00005A9C  009D                                     5409+         DC    H'157'             test number
00005A9E  00                                       5410+         DC    XL1'00'
00005A9F  0B                                       5411+         DC    HL1'11'            &M3
00005AA0  00                                       5412+         DC    HL1'0'             &M4
00005AA1  03                                       5413+         DC    HL1'3'             cc
00005AA2  0E                                       5414+         DC    HL1'14'            cc failed mask
00005AA3  E5C3E5C2 C7404040                        5415+         DC    CL8'VCVBG'         instruction name
00005AAC  00000010                                 5416+         DC    A(16)              result length
00005AB0  00005AF4                                 5417+REA157   DC    A(RE157)           result address
00005AB8  00000000 00000000                        5418+         DS    FD                       gap
00005AC0  00000000 00000000                        5419+R1O157   DS    FD                 R1 OUTPUT
00005AC8  00000000 00000000                        5420+         DS    FD                       gap
                                                   5421+*                                 INSTRUCTION UNDER TEST ROUTINE
00005AD0                                           5422+X157     DS    0F
00005AD0  E310 8EF0 0004                000010F0   5423+         LG    R1,R1FUDGE         pollute R1
00005AD6  E710 5064 0006                00005AFC   5424+         VL    V1,RE157+8         get V1 source
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005ADC  E611 00B0 0052                          5425+         VCVBG R1,V1,11,0        test instruction
00005AE2  E310 5028 0024                 00005AC0 5426+         STG   R1,R1O157         save
00005AE8  B98D 0020                               5427+         EPSW  R2,R0             exptract psw
00005AEC  5020 8EE4                      000010E4 5428+         ST    R2,CCPSW              to save CC
00005AF0  07FB                                    5429+         BR    R11               return
00005AF4                                          5430+RE157    DC    0F
00005AF4                                          5431+         DROP  R5
00005AF4  00000000 0000000A                       5432          DC    XL08'000000000000000A'                    R1 result
00005AFC  00000000 00018446                       5433          DC    XL16'00000000000184467440737095516 26C'   V1 source
00005B04  74407370 9551626C
                                                  5434
                                                  5435          VRR_I VCVBG,11,0,3                            -(ULONG_MAX +1)
00005B10                                          5436+         DS    0FD
00005B10                       00005B10           5437+         USING *,R5              base for test data and test routine
00005B10  00005B48                                5438+T158     DC    A(X158)           address of test routine
00005B14  009E                                    5439+         DC    H'158'            test number
00005B16  00                                      5440+         DC    XL1'00'
00005B17  0B                                      5441+         DC    HL1'11'           &M3
00005B18  00                                      5442+         DC    HL1'0'            &M4
00005B19  03                                      5443+         DC    HL1'3'            cc
00005B1A  0E                                      5444+         DC    HL1'14'           cc failed mask
00005B1B  E5C3E5C2 C7404040                       5445+         DC    CL8'VCVBG'        instruction name
00005B24  00000010                                5446+         DC    A(16)             result length
00005B28  00005B6C                                5447+REA158   DC    A(RE158)          result address
00005B30  00000000 00000000                       5448+         DS    FD                      gap
00005B38  00000000 00000000                       5449+R1O158   DS    FD                R1 OUTPUT
00005B40  00000000 00000000                       5450+         DS    FD                      gap
                                                  5451+*                                  INSTRUCTION UNDER TEST ROUTINE
00005B48                                          5452+X158     DS    0F
00005B48  E310 8EF0 0004                 000010F0 5453+         LG    R1,R1FUDGE        pollute R1
00005B4E  E710 5064 0006                 00005B74 5454+         VL    V1,RE158+8        get V1 source
00005B54  E611 00B0 0052                          5455+         VCVBG R1,V1,11,0        test instruction
00005B5A  E310 5028 0024                 00005B38 5456+         STG   R1,R1O158         save
00005B60  B98D 0020                               5457+         EPSW  R2,R0             exptract psw
00005B64  5020 8EE4                      000010E4 5458+         ST    R2,CCPSW              to save CC
00005B68  07FB                                    5459+         BR    R11               return
00005B6C                                          5460+RE158    DC    0F
00005B6C                                          5461+         DROP  R5
00005B6C  00000000 00000000                       5462          DC    XL08'0000000000000000'                    R1 result
00005B74  00000000 00018446                       5463          DC    XL16'00000000000184467440737095516 16D'   V1 source
00005B7C  74407370 9551616D
                                                  5464
                                                  5465          VRR_I VCVBG,11,0,3                            -(ULONG_MAX +11)
00005B88                                          5466+         DS    0FD
00005B88                       00005B88           5467+         USING *,R5              base for test data and test routine
00005B88  00005BC0                                5468+T159     DC    A(X159)           address of test routine
00005B8C  009F                                    5469+         DC    H'159'            test number
00005B8E  00                                      5470+         DC    XL1'00'
00005B8F  0B                                      5471+         DC    HL1'11'           &M3
00005B90  00                                      5472+         DC    HL1'0'            &M4
00005B91  03                                      5473+         DC    HL1'3'            cc
00005B92  0E                                      5474+         DC    HL1'14'           cc failed mask
00005B93  E5C3E5C2 C7404040                       5475+         DC    CL8'VCVBG'        instruction name
00005B9C  00000010                                5476+         DC    A(16)             result length
00005BA0  00005BE4                                5477+REA159   DC    A(RE159)          result address
00005BA8  00000000 00000000                       5478+         DS    FD                      gap
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005BB0  00000000 00000000                        5479+R1O159   DS    FD                R1 OUTPUT
00005BB8  00000000 00000000                        5480+         DS    FD                      gap
                                                   5481+*                                INSTRUCTION UNDER TEST ROUTINE
00005BC0                                           5482+X159     DS    0F
00005BC0  E310 8EF0 0004                 000010F0  5483+         LG    R1,R1FUDGE        pollute R1
00005BC6  E710 5064 0006                 00005BEC  5484+         VL    V1,RE159+8        get V1 source
00005BCC  E611 00B0 0052                           5485+         VCVBG R1,V1,11,0        test instruction
00005BD2  E310 5028 0024                 00005BB0  5486+         STG   R1,R1O159         save
00005BD8  B98D 0020                                5487+         EPSW  R2,R0             exptract psw
00005BDC  5020 8EE4                      000010E4  5488+         ST    R2,CCPSW              to save CC
00005BE0  07FB                                     5489+         BR    R11               return
00005BE4                                           5490+RE159    DC    0F
00005BE4                                           5491+         DROP  R5
00005BE4  00000000 0000000A                        5492          DC    XL08'000000000000000A'                    R1 result
00005BEC  00000000 00018446                        5493          DC    XL16'00000000000184467440737095516 26D'   V1 source
00005BF4  74407370 9551626D
                                                   5494
                                                   5495 *                                                        Bad Sign - 0
                                                   5496          VRR_I VCVBG,11,0,3                             -(ULONG_MAX +11)
00005C00                                           5497+         DS    0FD
00005C00                         00005C00          5498+         USING *,R5              base for test data and test routine
00005C00  00005C38                                 5499+T160     DC    A(X160)           address of test routine
00005C04  00A0                                     5500+         DC    H'160'            test number
00005C06  00                                       5501+         DC    XL1'00'
00005C07  0B                                       5502+         DC    HL1'11'           &M3
00005C08  00                                       5503+         DC    HL1'0'            &M4
00005C09  03                                       5504+         DC    HL1'3'            cc
00005C0A  0E                                       5505+         DC    HL1'14'           cc failed mask
00005C0B  E5C3E5C2 C7404040                        5506+         DC    CL8'VCVBG'        instruction name
00005C14  00000010                                 5507+         DC    A(16)             result length
00005C18  00005C5C                                 5508+REA160   DC    A(RE160)          result address
00005C20  00000000 00000000                        5509+         DS    FD                      gap
00005C28  00000000 00000000                        5510+R1O160   DS    FD                R1 OUTPUT
00005C30  00000000 00000000                        5511+         DS    FD                      gap
                                                   5512+*                                INSTRUCTION UNDER TEST ROUTINE
00005C38                                           5513+X160     DS    0F
00005C38  E310 8EF0 0004                 000010F0  5514+         LG    R1,R1FUDGE        pollute R1
00005C3E  E710 5064 0006                 00005C64  5515+         VL    V1,RE160+8        get V1 source
00005C44  E611 00B0 0052                           5516+         VCVBG R1,V1,11,0        test instruction
00005C4A  E310 5028 0024                 00005C28  5517+         STG   R1,R1O160         save
00005C50  B98D 0020                                5518+         EPSW  R2,R0             exptract psw
00005C54  5020 8EE4                      000010E4  5519+         ST    R2,CCPSW              to save CC
00005C58  07FB                                     5520+         BR    R11               return
00005C5C                                           5521+RE160    DC    0F
00005C5C                                           5522+         DROP  R5
00005C5C  00000000 0000000A                        5523          DC    XL08'000000000000000A'                    R1 result
00005C64  00000000 00018446                        5524          DC    XL16'00000000000184467440737095516 260'   V1 source
00005C6C  74407370 95516260
                                                   5525
                                                   5526 * VCVBG  m3=11 (p2=1, lb=1, cs=1)       m4=4 (iom=0, orc=1)
                                                   5527 *        cc=3 (overflow)
                                                   5528          VRR_I VCVBG,11,4,3                             ULONG_MAX +1
00005C78                                           5529+         DS    0FD
00005C78                         00005C78          5530+         USING *,R5              base for test data and test routine
00005C78  00005CB0                                 5531+T161     DC    A(X161)           address of test routine
00005C7C  00A1                                     5532+         DC    H'161'            test number
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005C7E  00                                       5533+          DC    XL1'00'
00005C7F  0B                                       5534+          DC    HL1'11'           &M3
00005C80  04                                       5535+          DC    HL1'4'            &M4
00005C81  03                                       5536+          DC    HL1'3'            cc
00005C82  0E                                       5537+          DC    HL1'14'           cc failed mask
00005C83  E5C3E5C2 C7404040                        5538+          DC    CL8'VCVBG'        instruction name
00005C8C  00000010                                 5539+          DC    A(16)             result length
00005C90  00005CD4                                 5540+REA161    DC    A(RE161)          result address
00005C98  00000000 00000000                        5541+          DS    FD                      gap
00005CA0  00000000 00000000                        5542+R1O161    DS    FD                R1 OUTPUT
00005CA8  00000000 00000000                        5543+          DS    FD                      gap
                                                   5544+*                                 INSTRUCTION UNDER TEST ROUTINE
00005CB0                                           5545+X161      DS    0F
00005CB0  E310 8EF0 0004                000010F0   5546+          LG    R1,R1FUDGE        pollute R1
00005CB6  E710 5064 0006                00005CDC   5547+          VL    V1,RE161+8        get V1 source
00005CBC  E611 00B4 0052                           5548+          VCVBG R1,V1,11,4        test instruction
00005CC2  E310 5028 0024                00005CA0   5549+          STG   R1,R1O161         save
00005CC8  B98D 0020                                5550+          EPSW  R2,R0             exptract psw
00005CCC  5020 8EE4                     000010E4   5551+          ST    R2,CCPSW              to save CC
00005CD0  07FB                                     5552+          BR    R11               return
00005CD4                                           5553+RE161     DC    0F
00005CD4                                           5554+          DROP  R5
00005CD4  00000000 00000000                        5555           DC    XL08'0000000000000000'                    R1 result
00005CDC  00000000 00018446                        5556           DC    XL16'00000000000184467440737095516 16C'   V1 source
00005CE4  74407370 9551616C
                                                   5557
                                                   5558           VRR_I VCVBG,11,4,3                              ULONG_MAX +11
00005CF0                                           5559+          DS    0FD
00005CF0                        00005CF0           5560+          USING *,R5              base for test data and test routine
00005CF0  00005D28                                 5561+T162      DC    A(X162)           address of test routine
00005CF4  00A2                                     5562+          DC    H'162'            test number
00005CF6  00                                       5563+          DC    XL1'00'
00005CF7  0B                                       5564+          DC    HL1'11'           &M3
00005CF8  04                                       5565+          DC    HL1'4'            &M4
00005CF9  03                                       5566+          DC    HL1'3'            cc
00005CFA  0E                                       5567+          DC    HL1'14'           cc failed mask
00005CFB  E5C3E5C2 C7404040                        5568+          DC    CL8'VCVBG'        instruction name
00005D04  00000010                                 5569+          DC    A(16)             result length
00005D08  00005D4C                                 5570+REA162    DC    A(RE162)          result address
00005D10  00000000 00000000                        5571+          DS    FD                      gap
00005D18  00000000 00000000                        5572+R1O162    DS    FD                R1 OUTPUT
00005D20  00000000 00000000                        5573+          DS    FD                      gap
                                                   5574+*                                 INSTRUCTION UNDER TEST ROUTINE
00005D28                                           5575+X162      DS    0F
00005D28  E310 8EF0 0004                000010F0   5576+          LG    R1,R1FUDGE        pollute R1
00005D2E  E710 5064 0006                00005D54   5577+          VL    V1,RE162+8        get V1 source
00005D34  E611 00B4 0052                           5578+          VCVBG R1,V1,11,4        test instruction
00005D3A  E310 5028 0024                00005D18   5579+          STG   R1,R1O162         save
00005D40  B98D 0020                                5580+          EPSW  R2,R0             exptract psw
00005D44  5020 8EE4                     000010E4   5581+          ST    R2,CCPSW              to save CC
00005D48  07FB                                     5582+          BR    R11               return
00005D4C                                           5583+RE162     DC    0F
00005D4C                                           5584+          DROP  R5
00005D4C  00000000 00000000                        5585           DC    XL08'0000000000000000'                    R1 result
00005D54  00000000 00018446                        5586           DC    XL16'00000000000184467440737095516 26C'   V1 source
00005D5C  74407370 9551626C
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                                   5587
                                                   5588          VRR_I VCVBG,11,4,3                          -(ULONG_MAX +1)
00005D68                                           5589+         DS    0FD
00005D68                     00005D68              5590+         USING *,R5              base for test data and test routine
00005D68  00005DA0                                 5591+T163     DC    A(X163)           address of test routine
00005D6C  00A3                                     5592+         DC    H'163'            test number
00005D6E  00                                       5593+         DC    XL1'00'
00005D6F  0B                                       5594+         DC    HL1'11'           &M3
00005D70  04                                       5595+         DC    HL1'4'            &M4
00005D71  03                                       5596+         DC    HL1'3'            cc
00005D72  0E                                       5597+         DC    HL1'14'           cc failed mask
00005D73  E5C3E5C2 C7404040                        5598+         DC    CL8'VCVBG'        instruction name
00005D7C  00000010                                 5599+         DC    A(16)             result length
00005D80  00005DC4                                 5600+REA163   DC    A(RE163)          result address
00005D88  00000000 00000000                        5601+         DS    FD                     gap
00005D90  00000000 00000000                        5602+R1O163   DS    FD                R1 OUTPUT
00005D98  00000000 00000000                        5603+         DS    FD                     gap
                                                   5604+*                                  INSTRUCTION UNDER TEST ROUTINE
00005DA0                                           5605+X163     DS    0F
00005DA0  E310 8EF0 0004                000010F0   5606+         LG    R1,R1FUDGE        pollute R1
00005DA6  E710 5064 0006                00005DCC   5607+         VL    V1,RE163+8        get V1 source
00005DAC  E611 00B4 0052                           5608+         VCVBG R1,V1,11,4        test instruction
00005DB2  E310 5028 0024                00005D90   5609+         STG   R1,R1O163         save
00005DB8  B98D 0020                                5610+         EPSW  R2,R0             exptract psw
00005DBC  5020 8EE4                     000010E4   5611+         ST    R2,CCPSW              to save CC
00005DC0  07FB                                     5612+         BR    R11               return
00005DC4                                           5613+RE163    DC    0F
00005DC4                                           5614+         DROP  R5
00005DC4  00000000 00000000                        5615          DC    XL08'0000000000000000'                R1 result
00005DCC  00000000 00018446                        5616          DC    XL16'00000000000184467440737095516 16D'   V1 source
00005DD4  74407370 9551616D
                                                   5617
                                                   5618          VRR_I VCVBG,11,4,3                          -(ULONG_MAX +11)
00005DE0                                           5619+         DS    0FD
00005DE0                     00005DE0              5620+         USING *,R5              base for test data and test routine
00005DE0  00005E18                                 5621+T164     DC    A(X164)           address of test routine
00005DE4  00A4                                     5622+         DC    H'164'            test number
00005DE6  00                                       5623+         DC    XL1'00'
00005DE7  0B                                       5624+         DC    HL1'11'           &M3
00005DE8  04                                       5625+         DC    HL1'4'            &M4
00005DE9  03                                       5626+         DC    HL1'3'            cc
00005DEA  0E                                       5627+         DC    HL1'14'           cc failed mask
00005DEB  E5C3E5C2 C7404040                        5628+         DC    CL8'VCVBG'        instruction name
00005DF4  00000010                                 5629+         DC    A(16)             result length
00005DF8  00005E3C                                 5630+REA164   DC    A(RE164)          result address
00005E00  00000000 00000000                        5631+         DS    FD                     gap
00005E08  00000000 00000000                        5632+R1O164   DS    FD                R1 OUTPUT
00005E10  00000000 00000000                        5633+         DS    FD                     gap
                                                   5634+*                                  INSTRUCTION UNDER TEST ROUTINE
00005E18                                           5635+X164     DS    0F
00005E18  E310 8EF0 0004                000010F0   5636+         LG    R1,R1FUDGE        pollute R1
00005E1E  E710 5064 0006                00005E44   5637+         VL    V1,RE164+8        get V1 source
00005E24  E611 00B4 0052                           5638+         VCVBG R1,V1,11,4        test instruction
00005E2A  E310 5028 0024                00005E08   5639+         STG   R1,R1O164         save
00005E30  B98D 0020                                5640+         EPSW  R2,R0             exptract psw
00005E34  5020 8EE4                     000010E4   5641+         ST    R2,CCPSW              to save CC
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005E38  07FB                                     5642+          BR    R11                 return
00005E3C                                           5643+RE164     DC    0F
00005E3C                                           5644+          DROP  R5
00005E3C  00000000 00000000                        5645           DC    XL08'0000000000000000'                    R1 result
00005E44  00000000 00018446                        5646           DC    XL16'00000000000184467440737095516260'    V1 source
00005E4C  74407370 9551626D
                                                   5647
                                                   5648 *                                                        Bad Sign - 0
                                                   5649           VRR_I VCVBG,11,4,3                            -(ULONG_MAX +11)
00005E58                                           5650+          DS    0FD
00005E58                        00005E58           5651+          USING *,R5                base for test data and test routine
00005E58  00005E90                                 5652+T165      DC    A(X165)             address of test routine
00005E5C  00A5                                     5653+          DC    H'165'              test number
00005E5E  00                                       5654+          DC    XL1'00'
00005E5F  0B                                       5655+          DC    HL1'11'             &M3
00005E60  04                                       5656+          DC    HL1'4'              &M4
00005E61  03                                       5657+          DC    HL1'3'              cc
00005E62  0E                                       5658+          DC    HL1'14'             cc failed mask
00005E63  E5C3E5C2 C7404040                        5659+          DC    CL8'VCVBG'          instruction name
00005E6C  00000010                                 5660+          DC    A(16)               result length
00005E70  00005EB4                                 5661+REA165    DC    A(RE165)            result address
00005E78  00000000 00000000                        5662+          DS    FD                        gap
00005E80  00000000 00000000                        5663+R1O165    DS    FD                  R1 OUTPUT
00005E88  00000000 00000000                        5664+          DS    FD                        gap
                                                   5665+*                                   INSTRUCTION UNDER TEST ROUTINE
00005E90                                           5666+X165      DS    0F
00005E90  E310 8EF0 0004                000010F0   5667+          LG    R1,R1FUDGE          pollute R1
00005E96  E710 5064 0006                00005EBC   5668+          VL    V1,RE165+8          get V1 source
00005E9C  E611 00B4 0052                           5669+          VCVBG R1,V1,11,4          test instruction
00005EA2  E310 5028 0024                00005E80   5670+          STG   R1,R1O165           save
00005EA8  B98D 0020                                5671+          EPSW  R2,R0               exptract psw
00005EAC  5020 8EE4                     000010E4   5672+          ST    R2,CCPSW                to save CC
00005EB0  07FB                                     5673+          BR    R11                 return
00005EB4                                           5674+RE165     DC    0F
00005EB4                                           5675+          DROP  R5
00005EB4  00000000 00000000                        5676           DC    XL08'0000000000000000'                    R1 result
00005EBC  00000000 00018446                        5677           DC    XL16'00000000000184467440737095516260'    V1 source
00005EC4  74407370 95516260
                                                   5678
00005ECC  00000000                                 5679           DC    F'0'     END OF TABLE
00005ED0  00000000                                 5680           DC    F'0'
                                                   5681 *
                                                   5682 * table of pointers to individual load test
                                                   5683 *
00005ED4                                           5684 E6TESTS   DS    0F
                                                   5685           PTTABLE
00005ED4                                           5686+TTABLE    DS    0F
00005ED4  00001178                                 5687+          DC    A(T1)               address of test
00005ED8  000011F0                                 5688+          DC    A(T2)               address of test
00005EDC  00001268                                 5689+          DC    A(T3)               address of test
00005EE0  000012E0                                 5690+          DC    A(T4)               address of test
00005EE4  00001358                                 5691+          DC    A(T5)               address of test
00005EE8  000013D0                                 5692+          DC    A(T6)               address of test
00005EEC  00001448                                 5693+          DC    A(T7)               address of test
00005EF0  000014C0                                 5694+          DC    A(T8)               address of test
00005EF4  00001538                                 5695+          DC    A(T9)               address of test
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005EF8  000015B0                          5696+         DC    A(T10)            address of test
00005EFC  00001628                          5697+         DC    A(T11)            address of test
00005F00  000016A0                          5698+         DC    A(T12)            address of test
00005F04  00001718                          5699+         DC    A(T13)            address of test
00005F08  00001790                          5700+         DC    A(T14)            address of test
00005F0C  00001808                          5701+         DC    A(T15)            address of test
00005F10  00001880                          5702+         DC    A(T16)            address of test
00005F14  000018F8                          5703+         DC    A(T17)            address of test
00005F18  00001970                          5704+         DC    A(T18)            address of test
00005F1C  000019E8                          5705+         DC    A(T19)            address of test
00005F20  00001A60                          5706+         DC    A(T20)            address of test
00005F24  00001AD8                          5707+         DC    A(T21)            address of test
00005F28  00001B50                          5708+         DC    A(T22)            address of test
00005F2C  00001BC8                          5709+         DC    A(T23)            address of test
00005F30  00001C40                          5710+         DC    A(T24)            address of test
00005F34  00001CB8                          5711+         DC    A(T25)            address of test
00005F38  00001D30                          5712+         DC    A(T26)            address of test
00005F3C  00001DA8                          5713+         DC    A(T27)            address of test
00005F40  00001E20                          5714+         DC    A(T28)            address of test
00005F44  00001E98                          5715+         DC    A(T29)            address of test
00005F48  00001F10                          5716+         DC    A(T30)            address of test
00005F4C  00001F88                          5717+         DC    A(T31)            address of test
00005F50  00002000                          5718+         DC    A(T32)            address of test
00005F54  00002078                          5719+         DC    A(T33)            address of test
00005F58  000020F0                          5720+         DC    A(T34)            address of test
00005F5C  00002168                          5721+         DC    A(T35)            address of test
00005F60  000021E0                          5722+         DC    A(T36)            address of test
00005F64  00002258                          5723+         DC    A(T37)            address of test
00005F68  000022D0                          5724+         DC    A(T38)            address of test
00005F6C  00002348                          5725+         DC    A(T39)            address of test
00005F70  000023C0                          5726+         DC    A(T40)            address of test
00005F74  00002438                          5727+         DC    A(T41)            address of test
00005F78  000024B0                          5728+         DC    A(T42)            address of test
00005F7C  00002528                          5729+         DC    A(T43)            address of test
00005F80  000025A0                          5730+         DC    A(T44)            address of test
00005F84  00002618                          5731+         DC    A(T45)            address of test
00005F88  00002690                          5732+         DC    A(T46)            address of test
00005F8C  00002708                          5733+         DC    A(T47)            address of test
00005F90  00002780                          5734+         DC    A(T48)            address of test
00005F94  000027F8                          5735+         DC    A(T49)            address of test
00005F98  00002870                          5736+         DC    A(T50)            address of test
00005F9C  000028E8                          5737+         DC    A(T51)            address of test
00005FA0  00002960                          5738+         DC    A(T52)            address of test
00005FA4  000029D8                          5739+         DC    A(T53)            address of test
00005FA8  00002A50                          5740+         DC    A(T54)            address of test
00005FAC  00002AC8                          5741+         DC    A(T55)            address of test
00005FB0  00002B40                          5742+         DC    A(T56)            address of test
00005FB4  00002BB8                          5743+         DC    A(T57)            address of test
00005FB8  00002C30                          5744+         DC    A(T58)            address of test
00005FBC  00002CA8                          5745+         DC    A(T59)            address of test
00005FC0  00002D20                          5746+         DC    A(T60)            address of test
00005FC4  00002D98                          5747+         DC    A(T61)            address of test
00005FC8  00002E10                          5748+         DC    A(T62)            address of test
00005FCC  00002E88                          5749+         DC    A(T63)            address of test
00005FD0  00002F00                          5750+         DC    A(T64)            address of test
00005FD4  00002F78                          5751+         DC    A(T65)            address of test
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

00005FD8  00002FF0                          5752+         DC    A(T66)            address of test
00005FDC  00003068                          5753+         DC    A(T67)            address of test
00005FE0  000030E0                          5754+         DC    A(T68)            address of test
00005FE4  00003158                          5755+         DC    A(T69)            address of test
00005FE8  000031D0                          5756+         DC    A(T70)            address of test
00005FEC  00003248                          5757+         DC    A(T71)            address of test
00005FF0  000032C0                          5758+         DC    A(T72)            address of test
00005FF4  00003338                          5759+         DC    A(T73)            address of test
00005FF8  000033B0                          5760+         DC    A(T74)            address of test
00005FFC  00003428                          5761+         DC    A(T75)            address of test
00006000  000034A0                          5762+         DC    A(T76)            address of test
00006004  00003518                          5763+         DC    A(T77)            address of test
00006008  00003590                          5764+         DC    A(T78)            address of test
0000600C  00003608                          5765+         DC    A(T79)            address of test
00006010  00003680                          5766+         DC    A(T80)            address of test
00006014  000036F8                          5767+         DC    A(T81)            address of test
00006018  00003770                          5768+         DC    A(T82)            address of test
0000601C  000037E8                          5769+         DC    A(T83)            address of test
00006020  00003860                          5770+         DC    A(T84)            address of test
00006024  000038D8                          5771+         DC    A(T85)            address of test
00006028  00003950                          5772+         DC    A(T86)            address of test
0000602C  000039C8                          5773+         DC    A(T87)            address of test
00006030  00003A40                          5774+         DC    A(T88)            address of test
00006034  00003AB8                          5775+         DC    A(T89)            address of test
00006038  00003B30                          5776+         DC    A(T90)            address of test
0000603C  00003BA8                          5777+         DC    A(T91)            address of test
00006040  00003C20                          5778+         DC    A(T92)            address of test
00006044  00003C98                          5779+         DC    A(T93)            address of test
00006048  00003D10                          5780+         DC    A(T94)            address of test
0000604C  00003D88                          5781+         DC    A(T95)            address of test
00006050  00003E00                          5782+         DC    A(T96)            address of test
00006054  00003E78                          5783+         DC    A(T97)            address of test
00006058  00003EF0                          5784+         DC    A(T98)            address of test
0000605C  00003F68                          5785+         DC    A(T99)            address of test
00006060  00003FE0                          5786+         DC    A(T100)           address of test
00006064  00004058                          5787+         DC    A(T101)           address of test
00006068  000040D0                          5788+         DC    A(T102)           address of test
0000606C  00004148                          5789+         DC    A(T103)           address of test
00006070  000041C0                          5790+         DC    A(T104)           address of test
00006074  00004238                          5791+         DC    A(T105)           address of test
00006078  000042B0                          5792+         DC    A(T106)           address of test
0000607C  00004328                          5793+         DC    A(T107)           address of test
00006080  000043A0                          5794+         DC    A(T108)           address of test
00006084  00004418                          5795+         DC    A(T109)           address of test
00006088  00004490                          5796+         DC    A(T110)           address of test
0000608C  00004508                          5797+         DC    A(T111)           address of test
00006090  00004580                          5798+         DC    A(T112)           address of test
00006094  000045F8                          5799+         DC    A(T113)           address of test
00006098  00004670                          5800+         DC    A(T114)           address of test
0000609C  000046E8                          5801+         DC    A(T115)           address of test
000060A0  00004760                          5802+         DC    A(T116)           address of test
000060A4  000047D8                          5803+         DC    A(T117)           address of test
000060A8  00004850                          5804+         DC    A(T118)           address of test
000060AC  000048C8                          5805+         DC    A(T119)           address of test
000060B0  00004940                          5806+         DC    A(T120)           address of test
000060B4  000049B8                          5807+         DC    A(T121)           address of test
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

000060B8  00004A30                                5808+          DC    A(T122)            address of test
000060BC  00004AA8                                5809+          DC    A(T123)            address of test
000060C0  00004B20                                5810+          DC    A(T124)            address of test
000060C4  00004B98                                5811+          DC    A(T125)            address of test
000060C8  00004C10                                5812+          DC    A(T126)            address of test
000060CC  00004C88                                5813+          DC    A(T127)            address of test
000060D0  00004D00                                5814+          DC    A(T128)            address of test
000060D4  00004D78                                5815+          DC    A(T129)            address of test
000060D8  00004DF0                                5816+          DC    A(T130)            address of test
000060DC  00004E68                                5817+          DC    A(T131)            address of test
000060E0  00004EE0                                5818+          DC    A(T132)            address of test
000060E4  00004F58                                5819+          DC    A(T133)            address of test
000060E8  00004FD0                                5820+          DC    A(T134)            address of test
000060EC  00005048                                5821+          DC    A(T135)            address of test
000060F0  000050C0                                5822+          DC    A(T136)            address of test
000060F4  00005138                                5823+          DC    A(T137)            address of test
000060F8  000051B0                                5824+          DC    A(T138)            address of test
000060FC  00005228                                5825+          DC    A(T139)            address of test
00006100  000052A0                                5826+          DC    A(T140)            address of test
00006104  00005318                                5827+          DC    A(T141)            address of test
00006108  00005390                                5828+          DC    A(T142)            address of test
0000610C  00005408                                5829+          DC    A(T143)            address of test
00006110  00005480                                5830+          DC    A(T144)            address of test
00006114  000054F8                                5831+          DC    A(T145)            address of test
00006118  00005570                                5832+          DC    A(T146)            address of test
0000611C  000055E8                                5833+          DC    A(T147)            address of test
00006120  00005660                                5834+          DC    A(T148)            address of test
00006124  000056D8                                5835+          DC    A(T149)            address of test
00006128  00005750                                5836+          DC    A(T150)            address of test
0000612C  000057C8                                5837+          DC    A(T151)            address of test
00006130  00005840                                5838+          DC    A(T152)            address of test
00006134  000058B8                                5839+          DC    A(T153)            address of test
00006138  00005930                                5840+          DC    A(T154)            address of test
0000613C  000059A8                                5841+          DC    A(T155)            address of test
00006140  00005A20                                5842+          DC    A(T156)            address of test
00006144  00005A98                                5843+          DC    A(T157)            address of test
00006148  00005B10                                5844+          DC    A(T158)            address of test
0000614C  00005B88                                5845+          DC    A(T159)            address of test
00006150  00005C00                                5846+          DC    A(T160)            address of test
00006154  00005C78                                5847+          DC    A(T161)            address of test
00006158  00005CF0                                5848+          DC    A(T162)            address of test
0000615C  00005D68                                5849+          DC    A(T163)            address of test
00006160  00005DE0                                5850+          DC    A(T164)            address of test
00006164  00005E58                                5851+          DC    A(T165)            address of test
                                                  5852+*
00006168  00000000                                5853+          DC    A(0)               END OF TABLE
0000616C  00000000                                5854+          DC    A(0)
                                                  5855
00006170  00000000                                5856           DC    F'0'     END OF TABLE
00006174  00000000                                5857           DC    F'0'
```

```
  LOC        OBJECT CODE       ADDR1     ADDR2     STMT

                                         5859 ************************************************************************
                                         5860 *        Register equates
                                         5861 ************************************************************************


                             00000000  00000001  5863 R0       EQU   0
                             00000001  00000001  5864 R1       EQU   1
                             00000002  00000001  5865 R2       EQU   2
                             00000003  00000001  5866 R3       EQU   3
                             00000004  00000001  5867 R4       EQU   4
                             00000005  00000001  5868 R5       EQU   5
                             00000006  00000001  5869 R6       EQU   6
                             00000007  00000001  5870 R7       EQU   7
                             00000008  00000001  5871 R8       EQU   8
                             00000009  00000001  5872 R9       EQU   9
                             0000000A  00000001  5873 R10      EQU   10
                             0000000B  00000001  5874 R11      EQU   11
                             0000000C  00000001  5875 R12      EQU   12
                             0000000D  00000001  5876 R13      EQU   13
                             0000000E  00000001  5877 R14      EQU   14
                             0000000F  00000001  5878 R15      EQU   15



                                         5880 ************************************************************************
                                         5881 *        Register equates
                                         5882 ************************************************************************


                             00000000  00000001  5884 V0       EQU   0
                             00000001  00000001  5885 V1       EQU   1
                             00000002  00000001  5886 V2       EQU   2
                             00000003  00000001  5887 V3       EQU   3
                             00000004  00000001  5888 V4       EQU   4
                             00000005  00000001  5889 V5       EQU   5
                             00000006  00000001  5890 V6       EQU   6
                             00000007  00000001  5891 V7       EQU   7
                             00000008  00000001  5892 V8       EQU   8
                             00000009  00000001  5893 V9       EQU   9
                             0000000A  00000001  5894 V10      EQU   10
                             0000000B  00000001  5895 V11      EQU   11
                             0000000C  00000001  5896 V12      EQU   12
                             0000000D  00000001  5897 V13      EQU   13
                             0000000E  00000001  5898 V14      EQU   14
                             0000000F  00000001  5899 V15      EQU   15
                             00000010  00000001  5900 V16      EQU   16
                             00000011  00000001  5901 V17      EQU   17
                             00000012  00000001  5902 V18      EQU   18
                             00000013  00000001  5903 V19      EQU   19
                             00000014  00000001  5904 V20      EQU   20
                             00000015  00000001  5905 V21      EQU   21
```

```
  LOC         OBJECT CODE       ADDR1     ADDR2    STMT

                               00000016  00000001  5906 V22      EQU   22
                               00000017  00000001  5907 V23      EQU   23
                               00000018  00000001  5908 V24      EQU   24
                               00000019  00000001  5909 V25      EQU   25
                               0000001A  00000001  5910 V26      EQU   26
                               0000001B  00000001  5911 V27      EQU   27
                               0000001C  00000001  5912 V28      EQU   28
                               0000001D  00000001  5913 V29      EQU   29
                               0000001E  00000001  5914 V30      EQU   30
                               0000001F  00000001  5915 V31      EQU   31
                                                   5916
                                                   5917          END
```

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
BEGIN	I	00000200	2	152	117	148	149	150									
CC	U	00000009	1	554	296												
CCFOUND	X	000010EC	1	527	283	303											
CCMASK	U	0000000A	1	555	254												
CCMSG	U	000003E2	1	272	266												
CCPRTEXP	C	00001096	1	507	300												
CCPRTGOT	C	000010A6	1	510	307												
CCPRTLINE	C	00001053	16	502	512	310											
CCPRTLNG	U	00000055	1	512	309												
CCPRTNAME	C	00001080	8	505	293												
CCPRTNUM	C	00001063	3	503	291												
CCPSW	F	000010E4	4	526	280	698	728	758	788	818	848	878	908	938	968	998	1028
					1060	1090	1120	1152	1182	1212	1244	1274	1304	1334	1364	1394	1424
					1454	1484	1514	1544	1574	1604	1634	1664	1696	1726	1758	1788	1820
					1850	1880	1910	1940	1970	2000	2032	2062	2094	2124	2156	2186	2216
					2246	2276	2306	2336	2366	2398	2428	2458	2490	2520	2550	2586	2616
					2646	2676	2706	2736	2766	2796	2826	2856	2886	2916	2946	2976	3006
					3036	3066	3098	3128	3158	3188	3218	3250	3280	3310	3340	3372	3402
					3432	3462	3492	3522	3552	3582	3612	3642	3672	3702	3732	3762	3792
					3822	3854	3884	3914	3944	3976	4006	4036	4066	4098	4128	4158	4188
					4218	4248	4278	4308	4338	4368	4398	4428	4458	4488	4519	4551	4581
					4611	4641	4671	4701	4731	4763	4793	4823	4853	4883	4913	4944	4976
					5006	5036	5066	5096	5126	5156	5186	5216	5246	5276	5306	5336	5366
					5398	5428	5458	5488	5519	5551	5581	5611	5641	5672			
CTLR0	F	00000614	4	446	162	163	164	165									
DECNUM	C	000010D4	16	522	288	290	297	299	304	306	322	324	331	333	338	340	
E6TEST	4	00000000	56	548	246												
E6TESTS	F	00005ED4	4	5684	237												
EDIT	X	000010A8	18	517	289	298	305	323	332	339							
ENDTEST	U	000004EA	1	360	242												
EOJ	I	000005F8	4	436	197	230	363										
EOJPSW	D	000005E8	8	434	436												
FAILCONT	U	000004DA	1	350	313												
FAILED	F	00001000	4	476	352	361											
FAILMSG	U	00000472	1	320	261												
FAILPSW	D	00000600	8	438	440												
FAILTEST	I	00000610	4	440	364												
FB0001	F	00000288	8	181	185	186	188										
FB0002	F	00000348	8	214	218	219	221										
IMAGE	1	00000000	24952	0													
K	U	00000400	1	459	460	461	462										
K64	U	00010000	1	461													
M3	U	00000007	1	552	274	330											
M4	U	00000008	1	553	337												
MB	U	00100000	1	462													
MSG	I	00000530	4	396	196	229	379										
MSGCMD	C	0000057E	9	426	409	410											
MSGMSG	C	00000587	95	427	403	424	401										
MSGMVC	I	00000578	6	424	407												
MSGOK	I	00000546	2	405	402												
MSGRET	I	00000566	4	420	413	416											
MSGSAVE	F	0000056C	4	423	399	420											
NEXTE6	U	0000039C	1	239	264	355											
OPNAME	C	0000000B	8	557	293	327											
PAGE	U	00001000	1	460													
PRT3	C	000010BE	18	520	289	290	291	298	299	300	305	306	307	323	324	325	332

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
					333	334	339	340	341								
PRTLINE	C	00001008	16	485	494	344											
PRTLNG	U	0000004B	1	494	343												
PRTM3	C	00001044	2	490	334												
PRTM4	C	00001050	2	492	341												
PRTNAME	C	00001033	8	488	327												
PRTNUM	C	00001018	3	486	325												
R0	U	00000000	1	5863	111	162	165	185	187	188	189	194	218	220	221	222	227
					244	248	249	309	343	351	352	378	380	396	399	401	403
					405	420	697	727	757	787	817	847	877	907	937	967	997
					1027	1059	1089	1119	1151	1181	1211	1243	1273	1303	1333	1363	1393
					1423	1453	1483	1513	1543	1573	1603	1633	1663	1695	1725	1757	1787
					1819	1849	1879	1909	1939	1969	1999	2031	2061	2093	2123	2155	2185
					2215	2245	2275	2305	2335	2365	2397	2427	2457	2489	2519	2549	2585
					2615	2645	2675	2705	2735	2765	2795	2825	2855	2885	2915	2945	2975
					3005	3035	3065	3097	3127	3157	3187	3217	3249	3279	3309	3339	3371
					3401	3431	3461	3491	3521	3551	3581	3611	3641	3671	3701	3731	3761
					3791	3821	3853	3883	3913	3943	3975	4005	4035	4065	4097	4127	4157
					4187	4217	4247	4277	4307	4337	4367	4397	4427	4457	4487	4518	4550
					4580	4610	4640	4670	4700	4730	4762	4792	4822	4852	4882	4912	4943
					4975	5005	5035	5065	5095	5125	5155	5185	5215	5245	5275	5305	5335
					5365	5397	5427	5457	5487	5518	5550	5580	5610	5640	5671		
R1	U	00000001	1	5864	195	228	254	255	256	259	260	273	274	275	280	281	282
					283	310	344	361	362	410	424	693	695	696	723	725	726
					753	755	756	783	785	786	813	815	816	843	845	846	873
					875	876	903	905	906	933	935	936	963	965	966	993	995
					996	1023	1025	1026	1055	1057	1058	1085	1087	1088	1115	1117	1118
					1147	1149	1150	1177	1179	1180	1207	1209	1210	1239	1241	1242	1269
					1271	1272	1299	1301	1302	1329	1331	1332	1359	1361	1362	1389	1391
					1392	1419	1421	1422	1449	1451	1452	1479	1481	1482	1509	1511	1512
					1539	1541	1542	1569	1571	1572	1599	1601	1602	1629	1631	1632	1659
					1661	1662	1691	1693	1694	1721	1723	1724	1753	1755	1756	1783	1785
					1786	1815	1817	1818	1845	1847	1848	1875	1877	1878	1905	1907	1908
					1935	1937	1938	1965	1967	1968	1995	1997	1998	2027	2029	2030	2057
					2059	2060	2089	2091	2092	2119	2121	2122	2151	2153	2154	2181	2183
					2184	2211	2213	2214	2241	2243	2244	2271	2273	2274	2301	2303	2304
					2331	2333	2334	2361	2363	2364	2393	2395	2396	2423	2425	2426	2453
					2455	2456	2485	2487	2488	2515	2517	2518	2545	2547	2548	2581	2583
					2584	2611	2613	2614	2641	2643	2644	2671	2673	2674	2701	2703	2704
					2731	2733	2734	2761	2763	2764	2791	2793	2794	2821	2823	2824	2851
					2853	2854	2881	2883	2884	2911	2913	2914	2941	2943	2944	2971	2973
					2974	3001	3003	3004	3031	3033	3034	3061	3063	3064	3093	3095	3096
					3123	3125	3126	3153	3155	3156	3183	3185	3186	3213	3215	3216	3245
					3247	3248	3275	3277	3278	3305	3307	3308	3335	3337	3338	3367	3369
					3370	3397	3399	3400	3427	3429	3430	3457	3459	3460	3487	3489	3490
					3517	3519	3520	3547	3549	3550	3577	3579	3580	3607	3609	3610	3637
					3639	3640	3667	3669	3670	3697	3699	3700	3727	3729	3730	3757	3759
					3760	3787	3789	3790	3817	3819	3820	3849	3851	3852	3879	3881	3882
					3909	3911	3912	3939	3941	3942	3971	3973	3974	4001	4003	4004	4031
					4033	4034	4061	4063	4064	4093	4095	4096	4123	4125	4126	4153	4155
					4156	4183	4185	4186	4213	4215	4216	4243	4245	4246	4273	4275	4276
					4303	4305	4306	4333	4335	4336	4363	4365	4366	4393	4395	4396	4423
					4425	4426	4453	4455	4456	4483	4485	4486	4514	4516	4517	4546	4548
					4549	4576	4578	4579	4606	4608	4609	4636	4638	4639	4666	4668	4669
					4696	4698	4699	4726	4728	4729	4758	4760	4761	4788	4790	4791	4818
					4820	4821	4848	4850	4851	4878	4880	4881	4908	4910	4911	4939	4941

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
					4942	4971	4973	4974	5001	5003	5004	5031	5033	5034	5061	5063	5064
					5091	5093	5094	5121	5123	5124	5151	5153	5154	5181	5183	5184	5211
					5213	5214	5241	5243	5244	5271	5273	5274	5301	5303	5304	5331	5333
					5334	5361	5363	5364	5393	5395	5396	5423	5425	5426	5453	5455	5456
					5483	5485	5486	5514	5516	5517	5546	5548	5549	5576	5578	5579	5606
					5608	5609	5636	5638	5639	5667	5669	5670					
R10	U	0000000A	1	5873	150	159	160										
R11	U	0000000B	1	5874	251	252	699	729	759	789	819	849	879	909	939	969	999
					1029	1061	1091	1121	1153	1183	1213	1245	1275	1305	1335	1365	1395
					1425	1455	1485	1515	1545	1575	1605	1635	1665	1697	1727	1759	1789
					1821	1851	1881	1911	1941	1971	2001	2033	2063	2095	2125	2157	2187
					2217	2247	2277	2307	2337	2367	2399	2429	2459	2491	2521	2551	2587
					2617	2647	2677	2707	2737	2767	2797	2827	2857	2887	2917	2947	2977
					3007	3037	3067	3099	3129	3159	3189	3219	3251	3281	3311	3341	3373
					3403	3433	3463	3493	3523	3553	3583	3613	3643	3673	3703	3733	3763
					3793	3823	3855	3885	3915	3945	3977	4007	4037	4067	4099	4129	4159
					4189	4219	4249	4279	4309	4339	4369	4399	4429	4459	4489	4520	4552
					4582	4612	4642	4672	4702	4732	4764	4794	4824	4854	4884	4914	4945
					4977	5007	5037	5067	5097	5127	5157	5187	5217	5247	5277	5307	5337
					5367	5399	5429	5459	5489	5520	5552	5582	5612	5642	5673		
R12	U	0000000C	1	5875	237	240	263	354									
R13	U	0000000D	1	5876													
R14	U	0000000E	1	5877													
R15	U	0000000F	1	5878	311	345	373	383	384								
R1FUDGE	X	000010F0	8	533	693	723	753	783	813	843	873	903	933	963	993	1023	1055
					1085	1115	1147	1177	1207	1239	1269	1299	1329	1359	1389	1419	1449
					1479	1509	1539	1569	1599	1629	1659	1691	1721	1753	1783	1815	1845
					1875	1905	1935	1965	1995	2027	2057	2089	2119	2151	2181	2211	2241
					2271	2301	2331	2361	2393	2423	2453	2485	2515	2545	2581	2611	2641
					2671	2701	2731	2761	2791	2821	2851	2881	2911	2941	2971	3001	3031
					3061	3093	3123	3153	3183	3213	3245	3275	3305	3335	3367	3397	3427
					3457	3487	3517	3547	3577	3607	3637	3667	3697	3727	3757	3787	3817
					3849	3879	3909	3939	3971	4001	4031	4061	4093	4123	4153	4183	4213
					4243	4273	4303	4333	4363	4393	4423	4453	4483	4514	4546	4576	4606
					4636	4666	4696	4726	4758	4788	4818	4848	4878	4908	4939	4971	5001
					5031	5061	5091	5121	5151	5181	5211	5241	5271	5301	5331	5361	5393
					5423	5453	5483	5514	5546	5576	5606	5636	5667				
R1O1	F	000011A0	8	689	696												
R1O10	F	000015D8	8	959	966												
R1O100	F	00004008	8	3693	3700												
R1O101	F	00004080	8	3723	3730												
R1O102	F	000040F8	8	3753	3760												
R1O103	F	00004170	8	3783	3790												
R1O104	F	000041E8	8	3813	3820												
R1O105	F	00004260	8	3845	3852												
R1O106	F	000042D8	8	3875	3882												
R1O107	F	00004350	8	3905	3912												
R1O108	F	000043C8	8	3935	3942												
R1O109	F	00004440	8	3967	3974												
R1O11	F	00001650	8	989	996												
R1O110	F	000044B8	8	3997	4004												
R1O111	F	00004530	8	4027	4034												
R1O112	F	000045A8	8	4057	4064												
R1O113	F	00004620	8	4089	4096												
R1O114	F	00004698	8	4119	4126												
R1O115	F	00004710	8	4149	4156												

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
R1O116	F	00004788	8	4179	4186
R1O117	F	00004800	8	4209	4216
R1O118	F	00004878	8	4239	4246
R1O119	F	000048F0	8	4269	4276
R1O12	F	000016C8	8	1019	1026
R1O120	F	00004968	8	4299	4306
R1O121	F	000049E0	8	4329	4336
R1O122	F	00004A58	8	4359	4366
R1O123	F	00004AD0	8	4389	4396
R1O124	F	00004B48	8	4419	4426
R1O125	F	00004BC0	8	4449	4456
R1O126	F	00004C38	8	4479	4486
R1O127	F	00004CB0	8	4510	4517
R1O128	F	00004D28	8	4542	4549
R1O129	F	00004DA0	8	4572	4579
R1O13	F	00001740	8	1051	1058
R1O130	F	00004E18	8	4602	4609
R1O131	F	00004E90	8	4632	4639
R1O132	F	00004F08	8	4662	4669
R1O133	F	00004F80	8	4692	4699
R1O134	F	00004FF8	8	4722	4729
R1O135	F	00005070	8	4754	4761
R1O136	F	000050E8	8	4784	4791
R1O137	F	00005160	8	4814	4821
R1O138	F	000051D8	8	4844	4851
R1O139	F	00005250	8	4874	4881
R1O14	F	000017B8	8	1081	1088
R1O140	F	000052C8	8	4904	4911
R1O141	F	00005340	8	4935	4942
R1O142	F	000053B8	8	4967	4974
R1O143	F	00005430	8	4997	5004
R1O144	F	000054A8	8	5027	5034
R1O145	F	00005520	8	5057	5064
R1O146	F	00005598	8	5087	5094
R1O147	F	00005610	8	5117	5124
R1O148	F	00005688	8	5147	5154
R1O149	F	00005700	8	5177	5184
R1O15	F	00001830	8	1111	1118
R1O150	F	00005778	8	5207	5214
R1O151	F	000057F0	8	5237	5244
R1O152	F	00005868	8	5267	5274
R1O153	F	000058E0	8	5297	5304
R1O154	F	00005958	8	5327	5334
R1O155	F	000059D0	8	5357	5364
R1O156	F	00005A48	8	5389	5396
R1O157	F	00005AC0	8	5419	5426
R1O158	F	00005B38	8	5449	5456
R1O159	F	00005BB0	8	5479	5486
R1O16	F	000018A8	8	1143	1150
R1O160	F	00005C28	8	5510	5517
R1O161	F	00005CA0	8	5542	5549
R1O162	F	00005D18	8	5572	5579
R1O163	F	00005D90	8	5602	5609
R1O164	F	00005E08	8	5632	5639
R1O165	F	00005E80	8	5663	5670
R1O17	F	00001920	8	1173	1180

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
R1018	F	00001998	8	1203	1210
R1019	F	00001A10	8	1235	1242
R102	F	00001218	8	719	726
R1020	F	00001A88	8	1265	1272
R1021	F	00001B00	8	1295	1302
R1022	F	00001B78	8	1325	1332
R1023	F	00001BF0	8	1355	1362
R1024	F	00001C68	8	1385	1392
R1025	F	00001CE0	8	1415	1422
R1026	F	00001D58	8	1445	1452
R1027	F	00001DD0	8	1475	1482
R1028	F	00001E48	8	1505	1512
R1029	F	00001EC0	8	1535	1542
R103	F	00001290	8	749	756
R1030	F	00001F38	8	1565	1572
R1031	F	00001FB0	8	1595	1602
R1032	F	00002028	8	1625	1632
R1033	F	000020A0	8	1655	1662
R1034	F	00002118	8	1687	1694
R1035	F	00002190	8	1717	1724
R1036	F	00002208	8	1749	1756
R1037	F	00002280	8	1779	1786
R1038	F	000022F8	8	1811	1818
R1039	F	00002370	8	1841	1848
R104	F	00001308	8	779	786
R1040	F	000023E8	8	1871	1878
R1041	F	00002460	8	1901	1908
R1042	F	000024D8	8	1931	1938
R1043	F	00002550	8	1961	1968
R1044	F	000025C8	8	1991	1998
R1045	F	00002640	8	2023	2030
R1046	F	000026B8	8	2053	2060
R1047	F	00002730	8	2085	2092
R1048	F	000027A8	8	2115	2122
R1049	F	00002820	8	2147	2154
R105	F	00001380	8	809	816
R1050	F	00002898	8	2177	2184
R1051	F	00002910	8	2207	2214
R1052	F	00002988	8	2237	2244
R1053	F	00002A00	8	2267	2274
R1054	F	00002A78	8	2297	2304
R1055	F	00002AF0	8	2327	2334
R1056	F	00002B68	8	2357	2364
R1057	F	00002BE0	8	2389	2396
R1058	F	00002C58	8	2419	2426
R1059	F	00002CD0	8	2449	2456
R106	F	000013F8	8	839	846
R1060	F	00002D48	8	2481	2488
R1061	F	00002DC0	8	2511	2518
R1062	F	00002E38	8	2541	2548
R1063	F	00002EB0	8	2577	2584
R1064	F	00002F28	8	2607	2614
R1065	F	00002FA0	8	2637	2644
R1066	F	00003018	8	2667	2674
R1067	F	00003090	8	2697	2704
R1068	F	00003108	8	2727	2734

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
R1069	F	00003180	8	2757	2764												
R107	F	00001470	8	869	876												
R1070	F	000031F8	8	2787	2794												
R1071	F	00003270	8	2817	2824												
R1072	F	000032E8	8	2847	2854												
R1073	F	00003360	8	2877	2884												
R1074	F	000033D8	8	2907	2914												
R1075	F	00003450	8	2937	2944												
R1076	F	000034C8	8	2967	2974												
R1077	F	00003540	8	2997	3004												
R1078	F	000035B8	8	3027	3034												
R1079	F	00003630	8	3057	3064												
R108	F	000014E8	8	899	906												
R1080	F	000036A8	8	3089	3096												
R1081	F	00003720	8	3119	3126												
R1082	F	00003798	8	3149	3156												
R1083	F	00003810	8	3179	3186												
R1084	F	00003888	8	3209	3216												
R1085	F	00003900	8	3241	3248												
R1086	F	00003978	8	3271	3278												
R1087	F	000039F0	8	3301	3308												
R1088	F	00003A68	8	3331	3338												
R1089	F	00003AE0	8	3363	3370												
R109	F	00001560	8	929	936												
R1090	F	00003B58	8	3393	3400												
R1091	F	00003BD0	8	3423	3430												
R1092	F	00003C48	8	3453	3460												
R1093	F	00003CC0	8	3483	3490												
R1094	F	00003D38	8	3513	3520												
R1095	F	00003DB0	8	3543	3550												
R1096	F	00003E28	8	3573	3580												
R1097	F	00003EA0	8	3603	3610												
R1098	F	00003F18	8	3633	3640												
R1099	F	00003F90	8	3663	3670												
R1OUTPUT	F	00000028	8	562	260												
R2	U	00000002	1	5865	196	229	287	288	295	296	297	302	303	304	321	322	329
					330	331	336	337	338	378	379	380	397	399	405	406	407
					409	415	420	421	697	698	727	728	757	758	787	788	817
					818	847	848	877	878	907	908	937	938	967	968	997	998
					1027	1028	1059	1060	1089	1090	1119	1120	1151	1152	1181	1182	1211
					1212	1243	1244	1273	1274	1303	1304	1333	1334	1363	1364	1393	1394
					1423	1424	1453	1454	1483	1484	1513	1514	1543	1544	1573	1574	1603
					1604	1633	1634	1663	1664	1695	1696	1725	1726	1757	1758	1787	1788
					1819	1820	1849	1850	1879	1880	1909	1910	1939	1940	1969	1970	1999
					2000	2031	2032	2061	2062	2093	2094	2123	2124	2155	2156	2185	2186
					2215	2216	2245	2246	2275	2276	2305	2306	2335	2336	2365	2366	2397
					2398	2427	2428	2457	2458	2489	2490	2519	2520	2549	2550	2585	2586
					2615	2616	2645	2646	2675	2676	2705	2706	2735	2736	2765	2766	2795
					2796	2825	2826	2855	2856	2885	2886	2915	2916	2945	2946	2975	2976
					3005	3006	3035	3036	3065	3066	3097	3098	3127	3128	3157	3158	3187
					3188	3217	3218	3249	3250	3279	3280	3309	3310	3339	3340	3371	3372
					3401	3402	3431	3432	3461	3462	3491	3492	3521	3522	3551	3552	3581
					3582	3611	3612	3641	3642	3671	3672	3701	3702	3731	3732	3761	3762
					3791	3792	3821	3822	3853	3854	3883	3884	3913	3914	3943	3944	3975
					3976	4005	4006	4035	4036	4065	4066	4097	4098	4127	4128	4157	4158
					4187	4188	4217	4218	4247	4248	4277	4278	4307	4308	4337	4338	4367

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
					4368	4397	4398	4427	4428	4457	4458	4487	4488	4518	4519	4550	4551
					4580	4581	4610	4611	4640	4641	4670	4671	4700	4701	4730	4731	4762
					4763	4792	4793	4822	4823	4852	4853	4882	4883	4912	4913	4943	4944
					4975	4976	5005	5006	5035	5036	5065	5066	5095	5096	5125	5126	5155
					5156	5185	5186	5215	5216	5245	5246	5275	5276	5305	5306	5335	5336
					5365	5366	5397	5398	5427	5428	5457	5458	5487	5488	5518	5519	5550
					5551	5580	5581	5610	5611	5640	5641	5671	5672				
R3	U	00000003	1	5866													
R4	U	00000004	1	5867													
R5	U	00000005	1	5868	240	241	246	374	382	677	701	707	731	737	761	767	791
					797	821	827	851	857	881	887	911	917	941	947	971	977
					1001	1007	1031	1039	1063	1069	1093	1099	1123	1131	1155	1161	1185
					1191	1215	1223	1247	1253	1277	1283	1307	1313	1337	1343	1367	1373
					1397	1403	1427	1433	1457	1463	1487	1493	1517	1523	1547	1553	1577
					1583	1607	1613	1637	1643	1667	1675	1699	1705	1729	1737	1761	1767
					1791	1799	1823	1829	1853	1859	1883	1889	1913	1919	1943	1949	1973
					1979	2003	2011	2035	2041	2065	2073	2097	2103	2127	2135	2159	2165
					2189	2195	2219	2225	2249	2255	2279	2285	2309	2315	2339	2345	2369
					2377	2401	2407	2431	2437	2461	2469	2493	2499	2523	2529	2553	2565
					2589	2595	2619	2625	2649	2655	2679	2685	2709	2715	2739	2745	2769
					2775	2799	2805	2829	2835	2859	2865	2889	2895	2919	2925	2949	2955
					2979	2985	3009	3015	3039	3045	3069	3077	3101	3107	3131	3137	3161
					3167	3191	3197	3221	3229	3253	3259	3283	3289	3313	3319	3343	3351
					3375	3381	3405	3411	3435	3441	3465	3471	3495	3501	3525	3531	3555
					3561	3585	3591	3615	3621	3645	3651	3675	3681	3705	3711	3735	3741
					3765	3771	3795	3801	3825	3833	3857	3863	3887	3893	3917	3923	3947
					3955	3979	3985	4009	4015	4039	4045	4069	4077	4101	4107	4131	4137
					4161	4167	4191	4197	4221	4227	4251	4257	4281	4287	4311	4317	4341
					4347	4371	4377	4401	4407	4431	4437	4461	4467	4491	4498	4522	4530
					4554	4560	4584	4590	4614	4620	4644	4650	4674	4680	4704	4710	4734
					4742	4766	4772	4796	4802	4826	4832	4856	4862	4886	4892	4916	4923
					4947	4955	4979	4985	5009	5015	5039	5045	5069	5075	5099	5105	5129
					5135	5159	5165	5189	5195	5219	5225	5249	5255	5279	5285	5309	5315
					5339	5345	5369	5377	5401	5407	5431	5437	5461	5467	5491	5498	5522
					5530	5554	5560	5584	5590	5614	5620	5644	5651	5675			
R6	U	00000006	1	5869													
R7	U	00000007	1	5870													
R8	U	00000008	1	5871	148	152	153	154	156								
R9	U	00000009	1	5872	149	156	157	159									
RE1	F	000011D4	4	700	687	694											
RE10	F	0000160C	4	970	957	964											
RE100	F	0000403C	4	3704	3691	3698											
RE101	F	000040B4	4	3734	3721	3728											
RE102	F	0000412C	4	3764	3751	3758											
RE103	F	000041A4	4	3794	3781	3788											
RE104	F	0000421C	4	3824	3811	3818											
RE105	F	00004294	4	3856	3843	3850											
RE106	F	0000430C	4	3886	3873	3880											
RE107	F	00004384	4	3916	3903	3910											
RE108	F	000043FC	4	3946	3933	3940											
RE109	F	00004474	4	3978	3965	3972											
RE11	F	00001684	4	1000	987	994											
RE110	F	000044EC	4	4008	3995	4002											
RE111	F	00004564	4	4038	4025	4032											
RE112	F	000045DC	4	4068	4055	4062											
RE113	F	00004654	4	4100	4087	4094											

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE114	F	000046CC	4	4130	4117	4124
RE115	F	00004744	4	4160	4147	4154
RE116	F	000047BC	4	4190	4177	4184
RE117	F	00004834	4	4220	4207	4214
RE118	F	000048AC	4	4250	4237	4244
RE119	F	00004924	4	4280	4267	4274
RE12	F	000016FC	4	1030	1017	1024
RE120	F	0000499C	4	4310	4297	4304
RE121	F	00004A14	4	4340	4327	4334
RE122	F	00004A8C	4	4370	4357	4364
RE123	F	00004B04	4	4400	4387	4394
RE124	F	00004B7C	4	4430	4417	4424
RE125	F	00004BF4	4	4460	4447	4454
RE126	F	00004C6C	4	4490	4477	4484
RE127	F	00004CE4	4	4521	4508	4515
RE128	F	00004D5C	4	4553	4540	4547
RE129	F	00004DD4	4	4583	4570	4577
RE13	F	00001774	4	1062	1049	1056
RE130	F	00004E4C	4	4613	4600	4607
RE131	F	00004EC4	4	4643	4630	4637
RE132	F	00004F3C	4	4673	4660	4667
RE133	F	00004FB4	4	4703	4690	4697
RE134	F	0000502C	4	4733	4720	4727
RE135	F	000050A4	4	4765	4752	4759
RE136	F	0000511C	4	4795	4782	4789
RE137	F	00005194	4	4825	4812	4819
RE138	F	0000520C	4	4855	4842	4849
RE139	F	00005284	4	4885	4872	4879
RE14	F	000017EC	4	1092	1079	1086
RE140	F	000052FC	4	4915	4902	4909
RE141	F	00005374	4	4946	4933	4940
RE142	F	000053EC	4	4978	4965	4972
RE143	F	00005464	4	5008	4995	5002
RE144	F	000054DC	4	5038	5025	5032
RE145	F	00005554	4	5068	5055	5062
RE146	F	000055CC	4	5098	5085	5092
RE147	F	00005644	4	5128	5115	5122
RE148	F	000056BC	4	5158	5145	5152
RE149	F	00005734	4	5188	5175	5182
RE15	F	00001864	4	1122	1109	1116
RE150	F	000057AC	4	5218	5205	5212
RE151	F	00005824	4	5248	5235	5242
RE152	F	0000589C	4	5278	5265	5272
RE153	F	00005914	4	5308	5295	5302
RE154	F	0000598C	4	5338	5325	5332
RE155	F	00005A04	4	5368	5355	5362
RE156	F	00005A7C	4	5400	5387	5394
RE157	F	00005AF4	4	5430	5417	5424
RE158	F	00005B6C	4	5460	5447	5454
RE159	F	00005BE4	4	5490	5477	5484
RE16	F	000018DC	4	1154	1141	1148
RE160	F	00005C5C	4	5521	5508	5515
RE161	F	00005CD4	4	5553	5540	5547
RE162	F	00005D4C	4	5583	5570	5577
RE163	F	00005DC4	4	5613	5600	5607
RE164	F	00005E3C	4	5643	5630	5637

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE165	F	00005EB4	4	5674	5661	5668
RE17	F	00001954	4	1184	1171	1178
RE18	F	000019CC	4	1214	1201	1208
RE19	F	00001A44	4	1246	1233	1240
RE2	F	0000124C	4	730	717	724
RE20	F	00001ABC	4	1276	1263	1270
RE21	F	00001B34	4	1306	1293	1300
RE22	F	00001BAC	4	1336	1323	1330
RE23	F	00001C24	4	1366	1353	1360
RE24	F	00001C9C	4	1396	1383	1390
RE25	F	00001D14	4	1426	1413	1420
RE26	F	00001D8C	4	1456	1443	1450
RE27	F	00001E04	4	1486	1473	1480
RE28	F	00001E7C	4	1516	1503	1510
RE29	F	00001EF4	4	1546	1533	1540
RE3	F	000012C4	4	760	747	754
RE30	F	00001F6C	4	1576	1563	1570
RE31	F	00001FE4	4	1606	1593	1600
RE32	F	0000205C	4	1636	1623	1630
RE33	F	000020D4	4	1666	1653	1660
RE34	F	0000214C	4	1698	1685	1692
RE35	F	000021C4	4	1728	1715	1722
RE36	F	0000223C	4	1760	1747	1754
RE37	F	000022B4	4	1790	1777	1784
RE38	F	0000232C	4	1822	1809	1816
RE39	F	000023A4	4	1852	1839	1846
RE4	F	0000133C	4	790	777	784
RE40	F	0000241C	4	1882	1869	1876
RE41	F	00002494	4	1912	1899	1906
RE42	F	0000250C	4	1942	1929	1936
RE43	F	00002584	4	1972	1959	1966
RE44	F	000025FC	4	2002	1989	1996
RE45	F	00002674	4	2034	2021	2028
RE46	F	000026EC	4	2064	2051	2058
RE47	F	00002764	4	2096	2083	2090
RE48	F	000027DC	4	2126	2113	2120
RE49	F	00002854	4	2158	2145	2152
RE5	F	000013B4	4	820	807	814
RE50	F	000028CC	4	2188	2175	2182
RE51	F	00002944	4	2218	2205	2212
RE52	F	000029BC	4	2248	2235	2242
RE53	F	00002A34	4	2278	2265	2272
RE54	F	00002AAC	4	2308	2295	2302
RE55	F	00002B24	4	2338	2325	2332
RE56	F	00002B9C	4	2368	2355	2362
RE57	F	00002C14	4	2400	2387	2394
RE58	F	00002C8C	4	2430	2417	2424
RE59	F	00002D04	4	2460	2447	2454
RE6	F	0000142C	4	850	837	844
RE60	F	00002D7C	4	2492	2479	2486
RE61	F	00002DF4	4	2522	2509	2516
RE62	F	00002E6C	4	2552	2539	2546
RE63	F	00002EE4	4	2588	2575	2582
RE64	F	00002F5C	4	2618	2605	2612
RE65	F	00002FD4	4	2648	2635	2642
RE66	F	0000304C	4	2678	2665	2672

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
RE67	F	000030C4	4	2708	2695	2702
RE68	F	0000313C	4	2738	2725	2732
RE69	F	000031B4	4	2768	2755	2762
RE7	F	000014A4	4	880	867	874
RE70	F	0000322C	4	2798	2785	2792
RE71	F	000032A4	4	2828	2815	2822
RE72	F	0000331C	4	2858	2845	2852
RE73	F	00003394	4	2888	2875	2882
RE74	F	0000340C	4	2918	2905	2912
RE75	F	00003484	4	2948	2935	2942
RE76	F	000034FC	4	2978	2965	2972
RE77	F	00003574	4	3008	2995	3002
RE78	F	000035EC	4	3038	3025	3032
RE79	F	00003664	4	3068	3055	3062
RE8	F	0000151C	4	910	897	904
RE80	F	000036DC	4	3100	3087	3094
RE81	F	00003754	4	3130	3117	3124
RE82	F	000037CC	4	3160	3147	3154
RE83	F	00003844	4	3190	3177	3184
RE84	F	000038BC	4	3220	3207	3214
RE85	F	00003934	4	3252	3239	3246
RE86	F	000039AC	4	3282	3269	3276
RE87	F	00003A24	4	3312	3299	3306
RE88	F	00003A9C	4	3342	3329	3336
RE89	F	00003B14	4	3374	3361	3368
RE9	F	00001594	4	940	927	934
RE90	F	00003B8C	4	3404	3391	3398
RE91	F	00003C04	4	3434	3421	3428
RE92	F	00003C7C	4	3464	3451	3458
RE93	F	00003CF4	4	3494	3481	3488
RE94	F	00003D6C	4	3524	3511	3518
RE95	F	00003DE4	4	3554	3541	3548
RE96	F	00003E5C	4	3584	3571	3578
RE97	F	00003ED4	4	3614	3601	3608
RE98	F	00003F4C	4	3644	3631	3638
RE99	F	00003FC4	4	3674	3661	3668
REA1	A	00001190	4	687		
REA10	A	000015C8	4	957		
REA100	A	00003FF8	4	3691		
REA101	A	00004070	4	3721		
REA102	A	000040E8	4	3751		
REA103	A	00004160	4	3781		
REA104	A	000041D8	4	3811		
REA105	A	00004250	4	3843		
REA106	A	000042C8	4	3873		
REA107	A	00004340	4	3903		
REA108	A	000043B8	4	3933		
REA109	A	00004430	4	3965		
REA11	A	00001640	4	987		
REA110	A	000044A8	4	3995		
REA111	A	00004520	4	4025		
REA112	A	00004598	4	4055		
REA113	A	00004610	4	4087		
REA114	A	00004688	4	4117		
REA115	A	00004700	4	4147		
REA116	A	00004778	4	4177		

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA117	A	000047F0	4	4207	
REA118	A	00004868	4	4237	
REA119	A	000048E0	4	4267	
REA12	A	000016B8	4	1017	
REA120	A	00004958	4	4297	
REA121	A	000049D0	4	4327	
REA122	A	00004A48	4	4357	
REA123	A	00004AC0	4	4387	
REA124	A	00004B38	4	4417	
REA125	A	00004BB0	4	4447	
REA126	A	00004C28	4	4477	
REA127	A	00004CA0	4	4508	
REA128	A	00004D18	4	4540	
REA129	A	00004D90	4	4570	
REA13	A	00001730	4	1049	
REA130	A	00004E08	4	4600	
REA131	A	00004E80	4	4630	
REA132	A	00004EF8	4	4660	
REA133	A	00004F70	4	4690	
REA134	A	00004FE8	4	4720	
REA135	A	00005060	4	4752	
REA136	A	000050D8	4	4782	
REA137	A	00005150	4	4812	
REA138	A	000051C8	4	4842	
REA139	A	00005240	4	4872	
REA14	A	000017A8	4	1079	
REA140	A	000052B8	4	4902	
REA141	A	00005330	4	4933	
REA142	A	000053A8	4	4965	
REA143	A	00005420	4	4995	
REA144	A	00005498	4	5025	
REA145	A	00005510	4	5055	
REA146	A	00005588	4	5085	
REA147	A	00005600	4	5115	
REA148	A	00005678	4	5145	
REA149	A	000056F0	4	5175	
REA15	A	00001820	4	1109	
REA150	A	00005768	4	5205	
REA151	A	000057E0	4	5235	
REA152	A	00005858	4	5265	
REA153	A	000058D0	4	5295	
REA154	A	00005948	4	5325	
REA155	A	000059C0	4	5355	
REA156	A	00005A38	4	5387	
REA157	A	00005AB0	4	5417	
REA158	A	00005B28	4	5447	
REA159	A	00005BA0	4	5477	
REA16	A	00001898	4	1141	
REA160	A	00005C18	4	5508	
REA161	A	00005C90	4	5540	
REA162	A	00005D08	4	5570	
REA163	A	00005D80	4	5600	
REA164	A	00005DF8	4	5630	
REA165	A	00005E70	4	5661	
REA17	A	00001910	4	1171	
REA18	A	00001988	4	1201	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
REA19	A	00001A00	4	1233	
REA2	A	00001208	4	717	
REA20	A	00001A78	4	1263	
REA21	A	00001AF0	4	1293	
REA22	A	00001B68	4	1323	
REA23	A	00001BE0	4	1353	
REA24	A	00001C58	4	1383	
REA25	A	00001CD0	4	1413	
REA26	A	00001D48	4	1443	
REA27	A	00001DC0	4	1473	
REA28	A	00001E38	4	1503	
REA29	A	00001EB0	4	1533	
REA3	A	00001280	4	747	
REA30	A	00001F28	4	1563	
REA31	A	00001FA0	4	1593	
REA32	A	00002018	4	1623	
REA33	A	00002090	4	1653	
REA34	A	00002108	4	1685	
REA35	A	00002180	4	1715	
REA36	A	000021F8	4	1747	
REA37	A	00002270	4	1777	
REA38	A	000022E8	4	1809	
REA39	A	00002360	4	1839	
REA4	A	000012F8	4	777	
REA40	A	000023D8	4	1869	
REA41	A	00002450	4	1899	
REA42	A	000024C8	4	1929	
REA43	A	00002540	4	1959	
REA44	A	000025B8	4	1989	
REA45	A	00002630	4	2021	
REA46	A	000026A8	4	2051	
REA47	A	00002720	4	2083	
REA48	A	00002798	4	2113	
REA49	A	00002810	4	2145	
REA5	A	00001370	4	807	
REA50	A	00002888	4	2175	
REA51	A	00002900	4	2205	
REA52	A	00002978	4	2235	
REA53	A	000029F0	4	2265	
REA54	A	00002A68	4	2295	
REA55	A	00002AE0	4	2325	
REA56	A	00002B58	4	2355	
REA57	A	00002BD0	4	2387	
REA58	A	00002C48	4	2417	
REA59	A	00002CC0	4	2447	
REA6	A	000013E8	4	837	
REA60	A	00002D38	4	2479	
REA61	A	00002DB0	4	2509	
REA62	A	00002E28	4	2539	
REA63	A	00002EA0	4	2575	
REA64	A	00002F18	4	2605	
REA65	A	00002F90	4	2635	
REA66	A	00003008	4	2665	
REA67	A	00003080	4	2695	
REA68	A	000030F8	4	2725	
REA69	A	00003170	4	2755	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES	
REA7	A	00001460	4	867		
REA70	A	000031E8	4	2785		
REA71	A	00003260	4	2815		
REA72	A	000032D8	4	2845		
REA73	A	00003350	4	2875		
REA74	A	000033C8	4	2905		
REA75	A	00003440	4	2935		
REA76	A	000034B8	4	2965		
REA77	A	00003530	4	2995		
REA78	A	000035A8	4	3025		
REA79	A	00003620	4	3055		
REA8	A	000014D8	4	897		
REA80	A	00003698	4	3087		
REA81	A	00003710	4	3117		
REA82	A	00003788	4	3147		
REA83	A	00003800	4	3177		
REA84	A	00003878	4	3207		
REA85	A	000038F0	4	3239		
REA86	A	00003968	4	3269		
REA87	A	000039E0	4	3299		
REA88	A	00003A58	4	3329		
REA89	A	00003AD0	4	3361		
REA9	A	00001550	4	927		
REA90	A	00003B48	4	3391		
REA91	A	00003BC0	4	3421		
REA92	A	00003C38	4	3451		
REA93	A	00003CB0	4	3481		
REA94	A	00003D28	4	3511		
REA95	A	00003DA0	4	3541		
REA96	A	00003E18	4	3571		
REA97	A	00003E90	4	3601		
REA98	A	00003F08	4	3631		
REA99	A	00003F80	4	3661		
READDR	A	00000018	4	560	259	
REG2LOW	U	000000DD	1	466		
REG2PATT	U	AABBCCDD	1	465		
RELEN	A	00000014	4	559		
RPTDWSAV	D	00000520	8	389	378	380
RPTERROR	I	000004F8	4	373	311	345
RPTSAVE	F	00000518	4	386	373	383
RPTSVR5	F	0000051C	4	387	374	382
SKL0001	U	00000054	1	178	194	
SKL0002	U	00000062	1	211	227	
SKT0001	C	0000022A	26	175	178	195
SKT0002	C	000002DC	26	208	211	228
SVOLDPSW	U	00000140	0	113		
T1	A	00001178	4	678	5687	
T10	A	000015B0	4	948	5696	
T100	A	00003FE0	4	3682	5786	
T101	A	00004058	4	3712	5787	
T102	A	000040D0	4	3742	5788	
T103	A	00004148	4	3772	5789	
T104	A	000041C0	4	3802	5790	
T105	A	00004238	4	3834	5791	
T106	A	000042B0	4	3864	5792	
T107	A	00004328	4	3894	5793	

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T108	A	000043A0	4	3924	5794
T109	A	00004418	4	3956	5795
T11	A	00001628	4	978	5697
T110	A	00004490	4	3986	5796
T111	A	00004508	4	4016	5797
T112	A	00004580	4	4046	5798
T113	A	000045F8	4	4078	5799
T114	A	00004670	4	4108	5800
T115	A	000046E8	4	4138	5801
T116	A	00004760	4	4168	5802
T117	A	000047D8	4	4198	5803
T118	A	00004850	4	4228	5804
T119	A	000048C8	4	4258	5805
T12	A	000016A0	4	1008	5698
T120	A	00004940	4	4288	5806
T121	A	000049B8	4	4318	5807
T122	A	00004A30	4	4348	5808
T123	A	00004AA8	4	4378	5809
T124	A	00004B20	4	4408	5810
T125	A	00004B98	4	4438	5811
T126	A	00004C10	4	4468	5812
T127	A	00004C88	4	4499	5813
T128	A	00004D00	4	4531	5814
T129	A	00004D78	4	4561	5815
T13	A	00001718	4	1040	5699
T130	A	00004DF0	4	4591	5816
T131	A	00004E68	4	4621	5817
T132	A	00004EE0	4	4651	5818
T133	A	00004F58	4	4681	5819
T134	A	00004FD0	4	4711	5820
T135	A	00005048	4	4743	5821
T136	A	000050C0	4	4773	5822
T137	A	00005138	4	4803	5823
T138	A	000051B0	4	4833	5824
T139	A	00005228	4	4863	5825
T14	A	00001790	4	1070	5700
T140	A	000052A0	4	4893	5826
T141	A	00005318	4	4924	5827
T142	A	00005390	4	4956	5828
T143	A	00005408	4	4986	5829
T144	A	00005480	4	5016	5830
T145	A	000054F8	4	5046	5831
T146	A	00005570	4	5076	5832
T147	A	000055E8	4	5106	5833
T148	A	00005660	4	5136	5834
T149	A	000056D8	4	5166	5835
T15	A	00001808	4	1100	5701
T150	A	00005750	4	5196	5836
T151	A	000057C8	4	5226	5837
T152	A	00005840	4	5256	5838
T153	A	000058B8	4	5286	5839
T154	A	00005930	4	5316	5840
T155	A	000059A8	4	5346	5841
T156	A	00005A20	4	5378	5842
T157	A	00005A98	4	5408	5843
T158	A	00005B10	4	5438	5844

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
T159	A	00005B88	4	5468	5845
T16	A	00001880	4	1132	5702
T160	A	00005C00	4	5499	5846
T161	A	00005C78	4	5531	5847
T162	A	00005CF0	4	5561	5848
T163	A	00005D68	4	5591	5849
T164	A	00005DE0	4	5621	5850
T165	A	00005E58	4	5652	5851
T17	A	000018F8	4	1162	5703
T18	A	00001970	4	1192	5704
T19	A	000019E8	4	1224	5705
T2	A	000011F0	4	708	5688
T20	A	00001A60	4	1254	5706
T21	A	00001AD8	4	1284	5707
T22	A	00001B50	4	1314	5708
T23	A	00001BC8	4	1344	5709
T24	A	00001C40	4	1374	5710
T25	A	00001CB8	4	1404	5711
T26	A	00001D30	4	1434	5712
T27	A	00001DA8	4	1464	5713
T28	A	00001E20	4	1494	5714
T29	A	00001E98	4	1524	5715
T3	A	00001268	4	738	5689
T30	A	00001F10	4	1554	5716
T31	A	00001F88	4	1584	5717
T32	A	00002000	4	1614	5718
T33	A	00002078	4	1644	5719
T34	A	000020F0	4	1676	5720
T35	A	00002168	4	1706	5721
T36	A	000021E0	4	1738	5722
T37	A	00002258	4	1768	5723
T38	A	000022D0	4	1800	5724
T39	A	00002348	4	1830	5725
T4	A	000012E0	4	768	5690
T40	A	000023C0	4	1860	5726
T41	A	00002438	4	1890	5727
T42	A	000024B0	4	1920	5728
T43	A	00002528	4	1950	5729
T44	A	000025A0	4	1980	5730
T45	A	00002618	4	2012	5731
T46	A	00002690	4	2042	5732
T47	A	00002708	4	2074	5733
T48	A	00002780	4	2104	5734
T49	A	000027F8	4	2136	5735
T5	A	00001358	4	798	5691
T50	A	00002870	4	2166	5736
T51	A	000028E8	4	2196	5737
T52	A	00002960	4	2226	5738
T53	A	000029D8	4	2256	5739
T54	A	00002A50	4	2286	5740
T55	A	00002AC8	4	2316	5741
T56	A	00002B40	4	2346	5742
T57	A	00002BB8	4	2378	5743
T58	A	00002C30	4	2408	5744
T59	A	00002CA8	4	2438	5745
T6	A	000013D0	4	828	5692

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
T60	A	00002D20	4	2470	5746												
T61	A	00002D98	4	2500	5747												
T62	A	00002E10	4	2530	5748												
T63	A	00002E88	4	2566	5749												
T64	A	00002F00	4	2596	5750												
T65	A	00002F78	4	2626	5751												
T66	A	00002FF0	4	2656	5752												
T67	A	00003068	4	2686	5753												
T68	A	000030E0	4	2716	5754												
T69	A	00003158	4	2746	5755												
T7	A	00001448	4	858	5693												
T70	A	000031D0	4	2776	5756												
T71	A	00003248	4	2806	5757												
T72	A	000032C0	4	2836	5758												
T73	A	00003338	4	2866	5759												
T74	A	000033B0	4	2896	5760												
T75	A	00003428	4	2926	5761												
T76	A	000034A0	4	2956	5762												
T77	A	00003518	4	2986	5763												
T78	A	00003590	4	3016	5764												
T79	A	00003608	4	3046	5765												
T8	A	000014C0	4	888	5694												
T80	A	00003680	4	3078	5766												
T81	A	000036F8	4	3108	5767												
T82	A	00003770	4	3138	5768												
T83	A	000037E8	4	3168	5769												
T84	A	00003860	4	3198	5770												
T85	A	000038D8	4	3230	5771												
T86	A	00003950	4	3260	5772												
T87	A	000039C8	4	3290	5773												
T88	A	00003A40	4	3320	5774												
T89	A	00003AB8	4	3352	5775												
T9	A	00001538	4	918	5695												
T90	A	00003B30	4	3382	5776												
T91	A	00003BA8	4	3412	5777												
T92	A	00003C20	4	3442	5778												
T93	A	00003C98	4	3472	5779												
T94	A	00003D10	4	3502	5780												
T95	A	00003D88	4	3532	5781												
T96	A	00003E00	4	3562	5782												
T97	A	00003E78	4	3592	5783												
T98	A	00003EF0	4	3622	5784												
T99	A	00003F68	4	3652	5785												
TESTCC	I	000003DE	4	266	256												
TESTING	F	00001004	4	477	249												
TESTREST	U	000003C6	1	258	276												
TNUM	H	00000004	2	550	248	287	321										
TSUB	A	00000000	4	549	251												
TTABLE	F	00005ED4	4	5686													
V0	U	00000000	1	5884													
V1	U	00000001	1	5885	694	695	724	725	754	755	784	785	814	815	844	845	874
					875	904	905	934	935	964	965	994	995	1024	1025	1056	1057
					1086	1087	1116	1117	1148	1149	1178	1179	1208	1209	1240	1241	1270
					1271	1300	1301	1330	1331	1360	1361	1390	1391	1420	1421	1450	1451
					1480	1481	1510	1511	1540	1541	1570	1571	1600	1601	1630	1631	1660
					1661	1692	1693	1722	1723	1754	1755	1784	1785	1816	1817	1846	1847

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES												
					1876	1877	1906	1907	1936	1937	1966	1967	1996	1997	2028	2029	2058
					2059	2090	2091	2120	2121	2152	2153	2182	2183	2212	2213	2242	2243
					2272	2273	2302	2303	2332	2333	2362	2363	2394	2395	2424	2425	2454
					2455	2486	2487	2516	2517	2546	2547	2582	2583	2612	2613	2642	2643
					2672	2673	2702	2703	2732	2733	2762	2763	2792	2793	2822	2823	2852
					2853	2882	2883	2912	2913	2942	2943	2972	2973	3002	3003	3032	3033
					3062	3063	3094	3095	3124	3125	3154	3155	3184	3185	3214	3215	3246
					3247	3276	3277	3306	3307	3336	3337	3368	3369	3398	3399	3428	3429
					3458	3459	3488	3489	3518	3519	3548	3549	3578	3579	3608	3609	3638
					3639	3668	3669	3698	3699	3728	3729	3758	3759	3788	3789	3818	3819
					3850	3851	3880	3881	3910	3911	3940	3941	3972	3973	4002	4003	4032
					4033	4062	4063	4094	4095	4124	4125	4154	4155	4184	4185	4214	4215
					4244	4245	4274	4275	4304	4305	4334	4335	4364	4365	4394	4395	4424
					4425	4454	4455	4484	4485	4515	4516	4547	4548	4577	4578	4607	4608
					4637	4638	4667	4668	4697	4698	4727	4728	4759	4760	4789	4790	4819
					4820	4849	4850	4879	4880	4909	4910	4940	4941	4972	4973	5002	5003
					5032	5033	5062	5063	5092	5093	5122	5123	5152	5153	5182	5183	5212
					5213	5242	5243	5272	5273	5302	5303	5332	5333	5362	5363	5394	5395
					5424	5425	5454	5455	5484	5485	5515	5516	5547	5548	5577	5578	5607
					5608	5637	5638	5668	5669								
V10	U	0000000A	1	5894													
V11	U	0000000B	1	5895													
V12	U	0000000C	1	5896													
V13	U	0000000D	1	5897													
V14	U	0000000E	1	5898													
V15	U	0000000F	1	5899													
V16	U	00000010	1	5900													
V17	U	00000011	1	5901													
V18	U	00000012	1	5902													
V19	U	00000013	1	5903													
V1FUDGE	X	00001128	16	537													
V1FUDGEB	X	00001138	16	538													
V1INPUT	C	00001148	16	539													
V1OUTPUT	X	00001108	16	535													
V2	U	00000002	1	5886													
V20	U	00000014	1	5904													
V21	U	00000015	1	5905													
V22	U	00000016	1	5906													
V23	U	00000017	1	5907													
V24	U	00000018	1	5908													
V25	U	00000019	1	5909													
V26	U	0000001A	1	5910													
V27	U	0000001B	1	5911													
V28	U	0000001C	1	5912													
V29	U	0000001D	1	5913													
V3	U	00000003	1	5887													
V30	U	0000001E	1	5914													
V31	U	0000001F	1	5915													
V4	U	00000004	1	5888													
V5	U	00000005	1	5889													
V6	U	00000006	1	5890													
V7	U	00000007	1	5891													
V8	U	00000008	1	5892													
V9	U	00000009	1	5893													
X0001	U	000002B0	1	184	172	185											
X0002	U	00000370	1	217	205	218											

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X1	F	000011B0	4	692	678
X10	F	000015E8	4	962	948
X100	F	00004018	4	3696	3682
X101	F	00004090	4	3726	3712
X102	F	00004108	4	3756	3742
X103	F	00004180	4	3786	3772
X104	F	000041F8	4	3816	3802
X105	F	00004270	4	3848	3834
X106	F	000042E8	4	3878	3864
X107	F	00004360	4	3908	3894
X108	F	000043D8	4	3938	3924
X109	F	00004450	4	3970	3956
X11	F	00001660	4	992	978
X110	F	000044C8	4	4000	3986
X111	F	00004540	4	4030	4016
X112	F	000045B8	4	4060	4046
X113	F	00004630	4	4092	4078
X114	F	000046A8	4	4122	4108
X115	F	00004720	4	4152	4138
X116	F	00004798	4	4182	4168
X117	F	00004810	4	4212	4198
X118	F	00004888	4	4242	4228
X119	F	00004900	4	4272	4258
X12	F	000016D8	4	1022	1008
X120	F	00004978	4	4302	4288
X121	F	000049F0	4	4332	4318
X122	F	00004A68	4	4362	4348
X123	F	00004AE0	4	4392	4378
X124	F	00004B58	4	4422	4408
X125	F	00004BD0	4	4452	4438
X126	F	00004C48	4	4482	4468
X127	F	00004CC0	4	4513	4499
X128	F	00004D38	4	4545	4531
X129	F	00004DB0	4	4575	4561
X13	F	00001750	4	1054	1040
X130	F	00004E28	4	4605	4591
X131	F	00004EA0	4	4635	4621
X132	F	00004F18	4	4665	4651
X133	F	00004F90	4	4695	4681
X134	F	00005008	4	4725	4711
X135	F	00005080	4	4757	4743
X136	F	000050F8	4	4787	4773
X137	F	00005170	4	4817	4803
X138	F	000051E8	4	4847	4833
X139	F	00005260	4	4877	4863
X14	F	000017C8	4	1084	1070
X140	F	000052D8	4	4907	4893
X141	F	00005350	4	4938	4924
X142	F	000053C8	4	4970	4956
X143	F	00005440	4	5000	4986
X144	F	000054B8	4	5030	5016
X145	F	00005530	4	5060	5046
X146	F	000055A8	4	5090	5076
X147	F	00005620	4	5120	5106
X148	F	00005698	4	5150	5136
X149	F	00005710	4	5180	5166

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES
X15	F	00001840	4	1114	1100
X150	F	00005788	4	5210	5196
X151	F	00005800	4	5240	5226
X152	F	00005878	4	5270	5256
X153	F	000058F0	4	5300	5286
X154	F	00005968	4	5330	5316
X155	F	000059E0	4	5360	5346
X156	F	00005A58	4	5392	5378
X157	F	00005AD0	4	5422	5408
X158	F	00005B48	4	5452	5438
X159	F	00005BC0	4	5482	5468
X16	F	000018B8	4	1146	1132
X160	F	00005C38	4	5513	5499
X161	F	00005CB0	4	5545	5531
X162	F	00005D28	4	5575	5561
X163	F	00005DA0	4	5605	5591
X164	F	00005E18	4	5635	5621
X165	F	00005E90	4	5666	5652
X17	F	00001930	4	1176	1162
X18	F	000019A8	4	1206	1192
X19	F	00001A20	4	1238	1224
X2	F	00001228	4	722	708
X20	F	00001A98	4	1268	1254
X21	F	00001B10	4	1298	1284
X22	F	00001B88	4	1328	1314
X23	F	00001C00	4	1358	1344
X24	F	00001C78	4	1388	1374
X25	F	00001CF0	4	1418	1404
X26	F	00001D68	4	1448	1434
X27	F	00001DE0	4	1478	1464
X28	F	00001E58	4	1508	1494
X29	F	00001ED0	4	1538	1524
X3	F	000012A0	4	752	738
X30	F	00001F48	4	1568	1554
X31	F	00001FC0	4	1598	1584
X32	F	00002038	4	1628	1614
X33	F	000020B0	4	1658	1644
X34	F	00002128	4	1690	1676
X35	F	000021A0	4	1720	1706
X36	F	00002218	4	1752	1738
X37	F	00002290	4	1782	1768
X38	F	00002308	4	1814	1800
X39	F	00002380	4	1844	1830
X4	F	00001318	4	782	768
X40	F	000023F8	4	1874	1860
X41	F	00002470	4	1904	1890
X42	F	000024E8	4	1934	1920
X43	F	00002560	4	1964	1950
X44	F	000025D8	4	1994	1980
X45	F	00002650	4	2026	2012
X46	F	000026C8	4	2056	2042
X47	F	00002740	4	2088	2074
X48	F	000027B8	4	2118	2104
X49	F	00002830	4	2150	2136
X5	F	00001390	4	812	798
X50	F	000028A8	4	2180	2166

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES					
X51	F	00002920	4	2210	2196					
X52	F	00002998	4	2240	2226					
X53	F	00002A10	4	2270	2256					
X54	F	00002A88	4	2300	2286					
X55	F	00002B00	4	2330	2316					
X56	F	00002B78	4	2360	2346					
X57	F	00002BF0	4	2392	2378					
X58	F	00002C68	4	2422	2408					
X59	F	00002CE0	4	2452	2438					
X6	F	00001408	4	842	828					
X60	F	00002D58	4	2484	2470					
X61	F	00002DD0	4	2514	2500					
X62	F	00002E48	4	2544	2530					
X63	F	00002EC0	4	2580	2566					
X64	F	00002F38	4	2610	2596					
X65	F	00002FB0	4	2640	2626					
X66	F	00003028	4	2670	2656					
X67	F	000030A0	4	2700	2686					
X68	F	00003118	4	2730	2716					
X69	F	00003190	4	2760	2746					
X7	F	00001480	4	872	858					
X70	F	00003208	4	2790	2776					
X71	F	00003280	4	2820	2806					
X72	F	000032F8	4	2850	2836					
X73	F	00003370	4	2880	2866					
X74	F	000033E8	4	2910	2896					
X75	F	00003460	4	2940	2926					
X76	F	000034D8	4	2970	2956					
X77	F	00003550	4	3000	2986					
X78	F	000035C8	4	3030	3016					
X79	F	00003640	4	3060	3046					
X8	F	000014F8	4	902	888					
X80	F	000036B8	4	3092	3078					
X81	F	00003730	4	3122	3108					
X82	F	000037A8	4	3152	3138					
X83	F	00003820	4	3182	3168					
X84	F	00003898	4	3212	3198					
X85	F	00003910	4	3244	3230					
X86	F	00003988	4	3274	3260					
X87	F	00003A00	4	3304	3290					
X88	F	00003A78	4	3334	3320					
X89	F	00003AF0	4	3366	3352					
X9	F	00001570	4	932	918					
X90	F	00003B68	4	3396	3382					
X91	F	00003BE0	4	3426	3412					
X92	F	00003C58	4	3456	3442					
X93	F	00003CD0	4	3486	3472					
X94	F	00003D48	4	3516	3502					
X95	F	00003DC0	4	3546	3532					
X96	F	00003E38	4	3576	3562					
X97	F	00003EB0	4	3606	3592					
X98	F	00003F28	4	3636	3622					
X99	F	00003FA0	4	3666	3652					
XC0001	U	000002D8	1	198	190					
XC0002	U	00000398	1	231	223					
ZVE6TST	J	00000000	24952	110	113	115	119	123	475	111

SYMBOL	TYPE	VALUE	LENGTH	DEFN	REFERENCES		
=A(E6TESTS)	A	00000624	4	452	237		
=AL2(L'MSGMSG)	R	0000062E	2	455	401		
=F'1'	F	00000620	4	451	222	275	351
=F'2'	F	0000061C	4	450	189		
=H'0'	H	0000062C	2	454	396		
=XL4'3'	X	00000628	4	453	282		

MACRO	DEFN	REFERENCES																
FCHECK	62	171	204															
PTTABLE	636	5685																
VRR_I	577	675	705	735	765	795	825	855	885	915	945	975	1005	1037	1067	1097	1129	1159
		1189	1221	1251	1281	1311	1341	1371	1401	1431	1461	1491	1521	1551	1581	1611	1641	1673
		1703	1735	1765	1797	1827	1857	1887	1917	1947	1977	2009	2039	2071	2101	2133	2163	2193
		2223	2253	2283	2313	2343	2375	2405	2435	2467	2497	2527	2563	2593	2623	2653	2683	2713
		2743	2773	2803	2833	2863	2893	2923	2953	2983	3013	3043	3075	3105	3135	3165	3195	3227
		3257	3287	3317	3349	3379	3409	3439	3469	3499	3529	3559	3589	3619	3649	3679	3709	3739
		3769	3799	3831	3861	3891	3921	3953	3983	4013	4043	4075	4105	4135	4165	4195	4225	4255
		4285	4315	4345	4375	4405	4435	4465	4496	4528	4558	4588	4618	4648	4678	4708	4740	4770
		4800	4830	4860	4890	4921	4953	4983	5013	5043	5073	5103	5133	5163	5193	5223	5253	5283
		5313	5343	5375	5405	5435	5465	5496	5528	5558	5588	5618	5649					

```
   DESC     SYMBOL   SIZE     POS        ADDR

Entry: 0

Image      IMAGE    24952  0000-6177  0000-6177
  Region            24952  0000-6177  0000-6177
    CSECT  ZVE6TST  24952  0000-6177  0000-6177
```

```
   STMT                          FILE NAME
1     /devstor/sharedvfp/tests/zvector-e6-11-convertbinary.asm

** NO ERRORS FOUND **
```