```
*************************************************************************
* Copyright 2006 Automated Software Tools Corporation        *
* This source code is part of z390 assembler/emulator package      *
* The z390 package is distributed under GNU general public license  *
* Author - Don Higgins                              *
* Date   - 12/26/06                                 *
*************************************************************************
* 12/31/06 RPI 523 CODE EXAMPLE APPLICATION CALLED DEMOSUB2 ROUTINE
*************************************************************************
* CALC INT PARM1 + INT PARM2 = INT PARM3
*************************************************************************
DEMOSUB2 SUBENTRY
     LM   R3,R5,0(R1)     GET 3 PARM ADDRESSES
     WTO  'DEMOSUB2 ENTERED'
     L    R0,0(R3)        LOAD  INT PARM1
     A    R0,0(R4)        ADD   INT PARM2
     ST   R0,0(R5)        STORE INT PARM3
     CVD  R0,PWORK
     MVC  DSUM,MASK
     ED   DSUM,PWORK+4
     WTO  MF=(E,WTOMSG)   DISPLAY PARM3 = INT PARM1 + INT PARM2
     WTO  'DEMOSUB2 EXITING'
     SUBEXIT
WTOMSG  DC   AL2(WTOEND-*,0),C'DEMOSUB2 SUM='
DSUM    DC   C' Z,ZZZ,ZZ9'
WTOEND  EQU  *
MASK    DC   C' ',X'20',C',',X'202020',C',',X'202120'
PWORK   DC   PL8'0'
     EQUREGS
     END
```