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\* 12/31/06 RPI 523 CODE DEMOMAIN CALLING DEMOSUB1/DEMOSUB2

\* 01/08/07 RPI 523 ADD TIMING IN MICRO-SEC AND PERFORM TWICE

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\* 1. DEMOMAIN CALLS DEMOSUB1 TO CALCULATE AND DISPLAY SUM OF 2

\* DISPLAY SCIENTIFIC NOTATION VALUES USING CFD AND CTD MACROS.

\* FOR CONVERSION TO/FROM LD EXTENDED DFP FORMAT FOR ADDITION

\* 2. DEMOMAIN CALLS DEMOSUB2 TO CALCULATE AND DISPLAY SUM OF 2

\* INTEGER VALUES.

\* 3. RUN SOA\DEMO\DEMOSTD.BAT TO ASSEMBLE, STATICALLY LINK, AND

\* EXECUTE DEMO APPLICATION AS STANDARD LOCAL SINGLE PROCESS.

\* 4. RUN SOA\DEMO\DEMOSOA.BAT TO GENERATED, ASSEMBLE, LINK, AND

\* EXECUTE DEMO APPLICAITON USING SOA CLIENT SERVER TO ALLOW

\* RUNNING THE TWO CALLED SUBROUTINES AS SERVICES RUNNING ON

\* SEPARATE PROCESS ON SAME OR ANY TCP/IP CONNECTED PLATFORM.

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COPY ASMMSP

DEMOMAIN SUBENTRY

```

WTO 'DEMOMAIN SERVICE ORIENTED ARCHITECTURE APPLICATION'
ZAP COUNT,=P'5'
DO WHILE=(SP,COUNT,P,=P'0')
  BAL R12,START_TIME
  CALL DEMOSUB1,(DFP1,DFP2,DFP3),VL
  MVC DSUM1,DFP3
  WTO MF=(E,WTOMSG1)
  BAL R12,STOP_TIME
  IF (CLC,DFP3,NE,DFP4)
    WTO 'DEMOMAIN DEMOSUB1 DFP SUM INVALID - ABORTING'
    ABEND 111
  ENDIF
  BAL R12,START_TIME
  CALL DEMOSUB2,(INT1,INT2,INT3),VL
  L R0,INT3
  CVD R0,PWORK
  MVC DSUM2,MASK2
  ED DSUM2,PWORK+4

```

```

WTO MF=(E,WTOMSG2)
BAL R12,STOP_TIME
IF (CLC,INT3,NE,INT4)
    WTO 'DEMOMAIN DEMOSUB2 INT SUM INVALID - ABORTING'
    ABEND 111

```

```

ENDIF
SP COUNT,=P'1'

```

```

ENDDO

```

```

WTO 'DEMOMAIN ENDED OK'
SUBEXIT

```

```

START_TIME DS 0H

```

```

TIME NS,NS_START

```

```

BR R12

```

```

STOP_TIME DS 0H SHOW SRERVICE TIME IN MICRO-SECONDS

```

```

TIME NS,NS_STOP

```

```

LG R1,NS_STOP

```

```

SG R1,NS_START

```

```

DSG R0,=FD'1000'

```

```

CVD R1,PWORK

```

```

MVC DMICS,MICS_MASK

```

```

ED DMICS,PWORK+3

```

```

WTO MF=(E,SHOW_MSG)

```

```

BR R12

```

```

NS_START DC D'0' START TOD IN NANO-SECONDS

```

```

NS_STOP DC D'0' END TOD IN NANO-SECONDS

```

```

SHOW_MSG DC AL2(SHOW_END-*,0),C'SERVICE TIME IN MIRCO-SEC ='

```

```

DMICS DC C'ZZZ,ZZZ,ZZZ'

```

```

SHOW_END EQU *

```

```

MICS_MASK DC X'40202020',C',',X'202020',C',',X'202120'

```

```

LTORG

```

```

COUNT DC PL4'0'

```

```

WTOMSG1 DC AL2(WTOEND1-*,0),C'DEMOMAIN DEMOSUB1 DFP SUM='

```

```

DSUM1 DC CL45' '

```

```

WTOEND1 EQU *

```

```

WTOMSG2 DC AL2(WTOEND2-*,0),C'DEMOMAIN DEMOSUB2 INT SUM='

```

```

DSUM2 DC C'Z,ZZZ,ZZZ'

```

```

WTOEND2 EQU *

```

```

MASK2 DC C' ',X'20',C',',X'202020',C',',X'202120'

```

```

PWORK DC PL8'0'

```

```

DFP1 DC CL45'1.1'

```

```

DFP2 DC CL45'2.2'

```

```

DFP3 DC CL45' '

```

```

DFP4 DC CL45'3.3' VERIFY SUM VALUE

```

INT1 DC F'1'  
INT2 DC F'2'  
INT3 DC F'0'  
INT4 DC F'3'  
EQUIREGS  
END