

TESTBEC1.CBL

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*****
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IDENTIFICATION DIVISION.

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* TEST BED 1 (COBOL)

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* TESTBED3 HAS BEEN LEFT AS ASM TO PROVE LINKAGE

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* TEST RETURN TRANSID AND COMMAREA

* BEC1 DISPLAYS 1ST LINE

* EACH SUBSEQUENT LINE INDEX COMES FROM IMPORTED COMMAREA

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* TEST LINK WITH DIFFERENT COMMAREAS

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* TEST XCTL WITH COMMAREA

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PROGRAM-ID. TESTBEC1.

ENVIRONMENT DIVISION.

DATA DIVISION.

WORKING-STORAGE SECTION.

77 SENDWCC PIC X.

77 SENDSBA PIC X(3).

77 SENDLINE PIC X(45).

77 MYCOMM PIC 9(4) COMP.

77 WCC PIC X VALUE X'F5'.

77 MYBEC2 PIC X(8) VALUE 'TESTBEC2'.

77 COMM1 PIC X(6) VALUE 'QUOTE2'.

77 COMM2 PIC X(6) VALUE 'QUOTE3'.

77 COMM3 PIC X(6) VALUE 'QUOTE6'.

01 SBAS.

* SBA,3,2 THRU SBA,11,2

02 FILLER PIC X(3) VALUE X'11C261'.

02 FILLER PIC X(3) VALUE X'11C3F1'.

02 FILLER PIC X(3) VALUE X'11C5C1'.

02 FILLER PIC X(3) VALUE X'11C6D1'.

02 FILLER PIC X(3) VALUE X'11C761'.

02 FILLER PIC X(3) VALUE X'11C8F1'.

02 FILLER PIC X(3) VALUE X'114AC1'.

02 FILLER PIC X(3) VALUE X'114BD1'.

02 FILLER PIC X(3) VALUE X'114C61'.

01 FILLER REDEFINES SBAS.

02 SBA OCCURS 9 TIMES PIC X(3).

01 LINES.

02 LINE1 PIC X(45) VALUE 'What a piece of work is man'.

02 FILLER PIC X(45) VALUE 'How noble in reason'.

02 FILLER PIC X(45) VALUE 'How infinite in faculties'.

02 FILLER PIC X(45) VALUE

'In form and moving, how express and admirable'.

02 FILLER PIC X(45) VALUE 'In action, how like an angel'.

02 FILLER PIC X(45) VALUE

'In apprehension, how like a god'.

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                                TESTBEC1.CBL
02 FILLER    PIC X(45) VALUE 'The beauty of the world'.
02 FILLER    PIC X(45) VALUE 'The paragon of animals'.
02 FILLER    PIC X(45) VALUE 'END'.
01 FILLER REDEFINES LINES.
02 LINE_N   OCCURS 9 TIMES PIC X(45).

LINKAGE SECTION.
01 DFHCOMMAREA.
02 INCOMM   PIC 9(4)  COMP.

PROCEDURE DIVISION USING DFHEIBLK DFHCOMMAREA.
* XC    MYCOMM,MYCOMM      INITIALISE COMMAREA
      MOVE 1 TO MYCOMM.
* MVC   SENDWCC,WCC        MOVE WCC
      MOVE WCC TO SENDWCC.
* OC    TCTTECA,TCTTECA   ANY COMMAREA ?
* BNZ   NOT1ST            EXIT IF NOT FIRST
      IF EIBCALEN = 0 THEN
* FIRST LINE
* MVC   SENDSBA,SBA1      1ST SBA
      MOVE SBA (1) TO SENDSBA
* MVC   SENDLINE,LINE1    1ST LINE
      MOVE LINE_N (1) TO SENDLINE
      EXEC CICS SEND FROM(SENDWCC) LENGTH(49) END-EXEC
      EXEC CICS RETURN TRANSID('BEC1')
                                COMMAREA(MYCOMM) END-EXEC
      ELSE
* NOT FIRST LINE
* L     R5,TCTTECA        ADDRESS RECEIVED COMMAREA
* LH    R6,0(R5)          R6=INDEX
* AHI   R6,1              INCREMENT
* STH   R6,0(R5)          SAVE
      ADD 1 TO INCOMM
* MS    R6,=F'3'          INDEX TO SBA
* LA    R7,SBA1(R6)       R7=ADDRESS OF NEXT SBA
* MVC   SENDSBA,0(R7)     MOVE NEXT SBA TO OUTPUT
      MOVE SBA (INCOMM) TO SENDSBA
* LH    R6,0(R5)          R6=INDEX
* MS    R6,=F'45'         INDEX TO NEXT LINE
* LA    R7,LINE1(R6)      R7=ADDRESS OF NEXT LINE
* MVC   SENDLINE,0(R7)    MOVE NEXT LINE TO OUTPUT
      MOVE LINE_N (INCOMM) TO SENDLINE
      EXEC CICS SEND FROM(SENDWCC) LENGTH(49) END-EXEC
* CLC   0(2,R5),=H'8'     DISPLAYED LAST ?
* BE    NEXT1             EXIT IF WE HAVE
      IF INCOMM NOT = 9 THEN
      EXEC CICS RETURN TRANSID('BEC1') COMMAREA(INCOMM)
                                LENGTH(2) END-EXEC
      ELSE
* TEST LINK
      EXEC CICS LINK PROGRAM(MYBEC2) END-EXEC
* TEST LINK WITH COMMAREA 1
      EXEC CICS LINK PROGRAM('TESTBEC2') COMMAREA(COMM1)
                                END-EXEC
* TEST LINK WITH COMMAREA 2
      EXEC CICS LINK PROGRAM('TESTBEC2') COMMAREA(COMM2)
                                LENGTH(6) END-EXEC
* TEST XCTL WITH COMMAREA 3

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TESTBEC1.CBL  
EXEC CICS XCTL PROGRAM('TESTBED3') COMMAREA(COMM3)  
END-EXEC.
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