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CICSTEST CSECT
CICSTEST AMODE 64
CICSTEST RMODE ANY
        SYSSTATE AMODE64=YES
        PRINT NOGEN
        $SYMBOLS

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*-----*
*      DEFINE STORAGE AREAS
*-----*

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	DFHEIGBL , , , NOLE	INSERTED BY TRANSLATOR
	DFHEISTG ,	
+DFHEISTG	DSECT ,	
+	USING * , DFHEIPLR	Establish Addressability
+DFHEISA	DS 18FD	F4SA
+DFHEIBP	DS AD	EIB pointer
+DFHEICAP	DS AD	COMMAREA pointer
+DFHEIR13	DS AD	Register 13
+DFHEIVER	DS H	Version
+DFHEIV00	DS H	Used by DFHECALL
+DFHEIRS3	DS F	Used by DFHECALL
+DFHEIPL	DS 64A	Parameter list
+DFHEITP1	DS A	Used by DFHECALL
+DFHEITP2	DS A	Used by DFHECALL
+DFHEITP3	DS A	Used by DFHECALL
+DFHEITP4	DS A	Used by DFHECALL
+DFHEITG1	DS AD	Used by DFHECALL
+DFHEITG2	DS AD	Used by DFHECALL
+DFHEITG3	DS AD	Used by DFHECALL
+DFHEITG4	DS AD	Used by DFHECALL
+	DS 4FD	Reserved
+*****		
+	Start Definition of User Dynamic Storage	
+*****		
+DFHEIUSR	DS 0X	Quadword aligned
+		
EIS_ADDRESSX	DS CL8	
EIS_ADDRESS	DS AD	
EIS_APPL	DS CL8	
EIS_LENGTH	DS F	
EIS_LEN	DS H	
EIS_LINEL	DS H	
	\$SWTO GENERATE	WRITE TO OPERATOR LIST FORM
	\$FORMAT GENERATE	FORMAT WORK AREAS
	DS 0D	
	DFHEIEND ,	
+DFHEISTG	DSECT ,	
+	ORG	
+DFHEIEND	DS 0X	END OF DYNAMIC STORAGE
CWA	DSECT	
CWA_EYE	DS D	

CWA_PREV DS D

```
*-----*
*          ENTRY LOGIC START HERE
*-----*
CICSTEST CSECT
    DFHEIENT CODEREG=*,STATREG=(10),EIBREG=(12),DATAREG=(13),+
            STATIC=LITERALS
+*****+
+*          PROLOG CODE FOR EXEC INTERFACE
+*-----*
+CICSTEST CSECT
+DFH0020A J    DFH0020C          Branch around eyecatcher
+          DC    AL1(DFH0020B-*-1) Length of eyecatcher
+          DC    CL12'CICSTEST(U)' Csect (assembled by)
+          DC    CL9'01/29/13'      Assembly date
+          DC    CL6'12.16'         Assembly time
+          DC    CL8'ZOS51RENT'     PTF number
+DFH0020B EQU    *                End of eyecatcher
+DFH0020C DS     0H
+          DS     0S((DFHEISTG+65264-DFHEIEND-4096)/4096) LenCheck
+          STMG    14,12,8(13)      Save callers registers
+          CNOP    0,4              Force word alignment
+          JAS     1,DFH0020D        Setup base & skip constants
+          DC      AL4(DFHEIEND-DFHEISTG) Length of storage
+          DC      V(DFHEAGO)        Entry point
+          DC      AL2(0)            Version
+DFH0020D DS     0H
+          LLGT    15,4(,1)          Load entry point
+          BASR    14,15             Call DFHEAGO
+*-----*
+*          SETUP STATIC STORAGE ADDRESSABILITY
+*-----*
+          LARL    10,LITERALS        Load static storage base
+          USING   LITERALS,10
+*-----*
+*          ESTABLISH DATA ADDRESSIBILITY
+*
+*-----*
+DFHEIPLR EQU    13                PARAMETER LIST REGISTER
+          LGR     DFHEIPLR,1
+          USING   DFHEISTG,13
+*-----*
+*          ESTABLISH EIB ADDRESSIBILITY
+*
+*-----*
+          LG      DFHEIBR,DFHEIBP
+          USING   DFHEIBLK,DFHEIBR
+*-----*
+*          END OF PROLOG CODE FOR EXEC INTERFACE
+*****+
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MVC    EIS_ADDRESSX,=CL8'ADDRESS='
$WTO   SETUP                               INITIALIZE WTO AREA
MVC    EIS_LENGTH,=F'4096'                 SET TO 1 PAGE

*-----*
*      EXEC  CICS ASSIGN APPLID(EIS_APPL) NOHANDLE
*-----*
      DFHECALL =X'02088000281F00000000000000000000000000000000',+
      (____8__RF,EIS_APPL)

*-----*
*      EXEC  CICS ADDRESS CWA(R11)
*-----*
      DFHECALL =X'02028000280200000000000000000000000000000000',+
      (PTR4__RF,R11)

      USING CWA,R11
MVC    CWA_EYE,=CL8'1ST_GM64'
LG     R7,CWA_PREV                        GET PREVIOUS ADDRESS

*-----*
*      EXEC  CICS GETMAIN64 FLENGTH(EIS_LENGTH) SET(R8)
*      SHARED CICS DATAKEY NOSUSPEND NOHANDLE
*-----*
      DFHECALL =X'0C121800280000301800000000',,,,      +
      (FB_4,EIS_LENGTH),(PTR8__RG,R8)

*-----*
+      LA    1,DFHEIPL
+      LA    14,=X'0C121800280000301800000000'
+      SR    15,15
+      SR    0,0
+      STM   14,0,0(1)
+      SR    14,14
+      LA    15,EIS_LENGTH
+      LA    0,DFHEITG1
+      STM   14,0,12(1)
+      OI    20(1),X'80'                      LAST ARGUMENT
+      LLGT   15,=V(DFHEG1)
+      BASR   14,15
+      LG     R8,DFHEITG1

*-----*
      IF EIBRCODE,NE,NULLS,JUMP,GETSTOR_FAILED

MVC    0(8,R8),=CL8'NXT_GM64'
STG     R7,8(,R8)                        GET PREVIOUS ADDRESS
STG     R8,CWA_PREV                      GET PREVIOUS ADDRESS
STG     R8,EIS_ADDRESS                  SAVE 64-BIT ADDRESS
L       R5,EIS_ADDRESS
L       R3,EIS_ADDRESS+4

$WTO   (EIBTRNID,'00I: ',EIS_APPL,      +
      ': GETMAIN64 COMPLETED, ADDRESS=',      +

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((R5),HEX,8),'',
((R3),HEX,8)),SVC=NO,DESC=NO
+

*-----*
*      EXEC  CICS SEND FROM(WTO_LIST_AREA) ERASE
*-----*
      DFHECALL =X'040430002800000081000040000000',,,
      (____RF,WTO_LIST_AREA),
      (FB_2,=Y(L'WTO_LIST_AREA))
      JUMP  CICSEXIT

GETSTOR_FAILED EQU *
      L      R5,EIBRCODE
      L      R3,EIBRCODE+2

      $WTO   (EIBTRNID,'01E: ',EIS_APPL,
              ': GETMAIN64 FAILED WITH RC=',
              ((R5),HEX,4),'', REASON=',
              ((R3),HEX,8)),SVC=NO,DESC=NO
+

*-----*
*      EXEC  CICS SEND FROM(WTO_LIST_AREA) ERASE
*-----*
      DFHECALL =X'040430002800000081000040000000',,,
      (____RF,WTO_LIST_AREA),
      (FB_2,=Y(L'WTO_LIST_AREA))
+

CICSEXIT DFHEIRET
+*****
+*      EPILOG CODE FOR EXEC INTERFACE
+*****
+CICSEXIT DS      0H
+      LG      13,128(,DFHEIPLR)    Caller's save area
+      SGR      1,1                  Clear r1
+      LLGT     15,=V(DFHEAG0)
+      BASR     14,15                Free storage
+      LMG      14,12,8(13)          Restore callers registers
+      BR       14                    Return to caller

LITERALS DS      0Q
      LTORG ,
      =CL8'ADDRESS='
      =CL8'1ST_GM64'
      =CL8'NXT_GM64'
      =F'4096'
      =V(DFHEG1)
      =V(DFHEAG0)

      END      CICSTEST

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