J E S 2   J O B   L O G   ——   S Y S T E M   8 5 6 1 ——   N O D E   S V S C J E S 2

```
15.30.18 JOB05246 ———— FRIDAY,    22 NOV 2024 ————
15.30.18 JOB05246  IRR010I  USERID KC03F2A  IS ASSIGNED TO THIS
JOB.
15.30.20 JOB05246  ICH70001I KC03F2A  LAST ACCESS AT 14:58:51 ON
FRIDAY, NOVEMBER 22, 2024
15.30.20 JOB05246  $HASP373 CMMNTF2A STARTED — INIT 2    — CLASS A
— SYS 8561
15.30.22 JOB05246  IEF764I CMMNTF2A COMPLI COBOL DFHAPIR DFHEIMOD
PARMLIB READ FAILED — MEMBER DFHAPIR NOT FOUND.
15.30.22 JOB05246  IEF764I CMMNTF2A COMPLI COBOL DFHAPIR DFHEIMOD
PARMLIB READ FAILED — MEMBER DFHAPIR NOT FOUND.
15.30.25 JOB05246  —                                          —————
TIMINGS (MINS.)——————                        —————PAGING
COUNTS————
15.30.25 JOB05246  —STEPNAME PROCSTEP   RC   EXCP   CONN      TCB
SRB  CLOCK          SERV  WORKLOAD  PAGE  SWAP   VIO SWAPS
15.30.25 JOB05246  —COMPLI   COBOL     00  13317   237       .00
.00    .0         143  BATCH       0     0     0     0
15.30.25 JOB05246  —COMPLI   COPYLINK  00     23     2       .00
.00    .0           3  BATCH       0     0     0     0
15.30.26 JOB05246  —COMPLI   LKED      00    300    31       .00
.00    .0          52  BATCH       0     0     0     0
15.30.26 JOB05246  —CMMNTF2A ENDED.  NAME—
TOTAL TCB CPU TIME=     .00 TOTAL ELAPSED TIME=    .1
15.30.26 JOB05246  $HASP395 CMMNTF2A ENDED — RC=0000
—————— JES2 JOB STATISTICS ——————
  22 NOV 2024 JOB EXECUTION DATE
          17 CARDS READ
       3,463 SYSOUT PRINT RECORDS
           0 SYSOUT PUNCH RECORDS
         245 SYSOUT SPOOL KBYTES
        0.13 MINUTES EXECUTION TIME
        1 //CMMNTF2A JOB
JOB05246
          //*
        2 //CICSPROC JCLLIB ORDER=(KC03F2A.DCMAFD02.PROCLIB)
```

```
         //*
         //
*********************************************************************
**
         //*              TRANSLATE COMPILE
         //*              AND LINK A CICS COBOL PROGRAM
         //
*********************************************************************
**
     3 //COMPLI   EXEC DFHZITCL,
         //            PROGLIB=TSOECCC.CICSTS12.STUDENT.LOADLIB,
         //            PROGSRC=KC03F2A.DCMAFD02.A5P3.COBOL,
         //            PROGMBR=CMMNTF2A,
         //
CPYLIBWS=KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL,
         //
CPYLIBPR=KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL
     4 XXDFHZITCL PROC LNGPRFX='IGY630',    Qualifier for COBOL
compiler *
         XX         LIBPRFX='CEE',          Qualifier for LE/390
         XX         INDEX='DFH610.CICS',    Qualifier(s) for
CICS libraries *
         XX         PROGLIB=,               Name of appl load
library *
         XX         PROGSRC=,               Name of appl source
library *
         XX         PROGMBR=,               Name of member in
source library *
         XX         DSCTLIB='DFH610.CICS.SDFHCOB',  Private macro/
dsect *
         XX         OUTC=*,                 Class for print
output
         XX         REG=0M,                 Region size for all
steps
         XX         CBLPARM=('NODYNAM,RENT',   Compiler options
         XX           'CICS(''COBOL3,SP'')'),  Translator options *
         XX         LNKPARM='LIST,XREF,RENT,MAP', Binder options
         XX         WORK=SYSDA                 Unit for work
datasets
```

```
XX*****************************************************************
****
          XX*
*
          XX*
*
          XX*
*
          XX*     Licensed Materials – Property of IBM
*
          XX*
*
          XX*     5655–Y04
*
          XX*
*
          XX*     (C) Copyright IBM Corp. 2001, 2014 All Rights
Reserved.      *
          XX*
*
          XX*
*
          XX*
*
          XX*
*
          XX* STATUS = 7.2.0
*
          XX*
*
          XX* CHANGE ACTIVITY :
*
          XX*
*
          XX* $MOD(DFHZITCL),COMP(COMMAND),PROD(CICS TS )
*
          XX*
*
```

```
          XX*  PN= REASON REL YYMMDD HDXXIII : REMARKS
*
          XX* $01= A84313 640 040604 HDBGNRB : Migrate PQ84313 from
SPA R630    *
          XX* $L0= Base   620 011211 HD7OPW  : Base
*
          XX* $P1= D04451 630 030307 HD4PALS : remove sdfhc370
reference      *
          XX* $P2= D08934 630 030919 HD3SCWG : DFHEILID now in
SDFHSAMP      *
          XX* $P3= D12714 640 041230 HD6KRAH : Compiler level
*
          XX* $P4= D07074 670 091019 HD4PALT : remove PDSE
reference         *
          XX*     D85873 690 140226 HDLHJJH : Compiler level 5.1
and 4.2      *
          XX*     R144470 720 171101 HDFVGMB : Remove LIB as a
compile option   *

XX***************************************************************
****
          XX*
*
          XX* 2023-May-1 local changes - GCO
*
          XX*
*
          XX* - changed LNGPRFX='SYS1' to LNGPRFX='IGY630'
*
          XX* - changed CICSSTS5.CICS to DFH550.CICS
*
          XX* - changed CICSSTS5.CICS.SDFHCOB to
DFH550.CICS.SDFHCOB            *
          XX* - added parameters PROGSRC, PROGMBR
*
          XX* - changed REG=200M to REG=0M
*
          XX* - deleted SIZE(4000K) from CBLPARM
*
```

```
          XX* – added SP to CBLPARM
*
          XX* – added DD DSN=&PROGSRC,DISP=SHR to COBOL SYSLIB
*
          XX*
*

XX********************************************************************
****
          XX*
          XX*    This procedure uses the Enterprise COBOL compiler
and its
          XX*    integrated CICS translator to generate a COBOL
module
          XX*    into an application load library.
          XX*
          XX*
          XX*       This procedure contains 3 steps:
          XX*       1.   Exec the COBOL compiler and integrated
translator
          XX*       2.   Reblock DFHEILID for use by the binder step
          XX*       3.   Bind the output into dataset &PROGLIB
          XX*
          XX*       The following JCL should be used
          XX*       to execute this procedure
          XX*
          XX*       //APPLPROG EXEC DFHZITCL,
          XX*            PROGLIB=dsnname-of-loadlib,
          XX*            PROGSRC=dsnname-of-source-pds,
          XX*            PROGMBR=member-name-of-program,
          XX*            CPYLIBWS=dsname-of-ws-copy-lib,
          XX*            CPYLIBPR=dsname-of-source-copy-libs
          XX*       //COBOL.SYSIN  DD *
          XX*          .
          XX*          . Application program
          XX*          .
          XX*       /*
          XX*       //LKED.SYSIN DD *
          XX*          NAME anyname(R)
```

```
        XX*      /*
        XX* OR
        XX*      //APPLPROG EXEC DFHZITCL,
        XX*           PROGLIB=dsnname-of-loadlib,
        XX*           PROGSRC=dsnname-of-source-pds,
        XX*           PROGMBR=member-name-of-program,
        XX*           CPYLIBWS=dsname-of-ws-copy-lib,
        XX*           CPYLIBPR=dsname-of-source-copy-libs
        XX*      //* NAME OF PROGRAM AND MEMBER TO TRANSLATE/
COMPILE/LKED
        XX*      //COBOL.SYSIN DD DSN=&PROGSRC(&PROGMBR),DISP=SHR
        XX*      /*
        XX*
        XX*      Where   anyname   is the name of your
application program.
        XX*      (Refer to the application programming guide for
full details,
        XX*      including what to do if your program contains
calls to
        XX*      the common programming interface.)
        XX*
        XX*      Note:
        XX*      The compiler LIB option is no longer required
when using
        XX*      COBOL 5 and later and has been removed from the
CBLPARM.
        XX*      For earlier versions of COBOL this option must
be manually
        XX*      reinstated.
        XX*
      5 XXCOBOL  EXEC PGM=IGYCRCTL,REGION=&REG,
        XX          PARM=&CBLPARM
        IEFC653I SUBSTITUTION JCL -
PGM=IGYCRCTL,REGION=0M,PARM=('NODYNAM,RENT','CICS(''COBOL3,SP'')')
      6 XXSTEPLIB  DD DSN=&LNGPRFX..SIGYCOMP,DISP=SHR
        IEFC653I SUBSTITUTION JCL - DSN=IGY630.SIGYCOMP,DISP=SHR
      7 XX          DD DSN=&INDEX..SDFHLOAD,DISP=SHR
        IEFC653I SUBSTITUTION JCL -
DSN=DFH610.CICS.SDFHLOAD,DISP=SHR
```

```
     8 XXSYSLIB   DD DSN=&DSCTLIB,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=DFH610.CICS.SDFHCOB,DISP=SHR
     9 XX         DD DSN=&PROGSRC,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=KC03F2A.DCMAFD02.A5P3.COBOL,DISP=SHR
    10 XX         DD DSN=&CPYLIBWS,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL,DISP=SHR
    11 XX         DD DSN=&CPYLIBPR,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL,DISP=SHR
    12 XX         DD DSN=&INDEX..SDFHCOB,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=DFH610.CICS.SDFHCOB,DISP=SHR
    13 XX         DD DSN=&INDEX..SDFHMAC,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=DFH610.CICS.SDFHMAC,DISP=SHR
    14 XX         DD DSN=&INDEX..SDFHSAMP,DISP=SHR
       IEFC653I SUBSTITUTION JCL —
DSN=DFH610.CICS.SDFHSAMP,DISP=SHR
    15 XXSYSPRINT DD SYSOUT=&OUTC
       IEFC653I SUBSTITUTION JCL — SYSOUT=*
    16 XXSYSLIN   DD DSN=&&LOADSET,DISP=(MOD,PASS),
       XX            UNIT=&WORK,SPACE=(TRK,(3,3))
       IEFC653I SUBSTITUTION JCL —
DSN=&&LOADSET,DISP=(MOD,PASS),UNIT=SYSDA,SPACE=(TRK,(3,3))
    17 XXSYSUT1   DD UNIT=&WORK,SPACE=(CYL,(1,1))
       IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
    18 XXSYSUT2   DD UNIT=&WORK,SPACE=(CYL,(1,1))
       IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
    19 XXSYSUT3   DD UNIT=&WORK,SPACE=(CYL,(1,1))
       IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
    20 XXSYSUT4   DD UNIT=&WORK,SPACE=(CYL,(1,1))
       IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
    21 XXSYSUT5   DD UNIT=&WORK,SPACE=(CYL,(1,1))
       IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
    22 XXSYSUT6   DD UNIT=&WORK,SPACE=(CYL,(1,1))
       IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
```

```
 23 XXSYSUT7    DD UNIT=&WORK,SPACE=(CYL,(1,1))
    XX** Additional datasets needed for 5.1 compiler **
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 24 XXSYSUT8    DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 25 XXSYSUT9    DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 26 XXSYSUT10   DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 27 XXSYSUT11   DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 28 XXSYSUT12   DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 29 XXSYSUT13   DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 30 XXSYSUT14   DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 31 XXSYSUT15   DD UNIT=&WORK,SPACE=(CYL,(1,1))
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 32 XXSYSMDECK DD UNIT=&WORK,SPACE=(CYL,(1,1))
    XX** End of additional dataset needed for 5.1 compiler **
    XX*
    IEFC653I SUBSTITUTION JCL — UNIT=SYSDA,SPACE=(CYL,(1,1))
 33 //COBOL.SYSIN DD DSN=&PROGSRC(&PROGMBR),DISP=SHR
    IEFC653I SUBSTITUTION JCL —
DSN=KC03F2A.DCMAFD02.A5P3.COBOL(CMMNTF2A),DISP=SHR
 34 XXCOPYLINK EXEC PGM=IEBGENER,COND=(7,LT,COBOL)
 35 XXSYSUT1    DD DSN=&INDEX..SDFHSAMP(DFHEILID),DISP=SHR
    IEFC653I SUBSTITUTION JCL —
DSN=DFH610.CICS.SDFHSAMP(DFHEILID),DISP=SHR
 36 XXSYSUT2    DD DSN=&&COPYLINK,DISP=(NEW,PASS),
    XX             DCB=(LRECL=80,BLKSIZE=400,RECFM=FB),
    XX             UNIT=&WORK,SPACE=(400,(20,20))
    IEFC653I SUBSTITUTION JCL —
DSN=&&COPYLINK,DISP=(NEW,PASS),DCB=(LRECL=80,BLKSIZE=400,RECFM=FB),
UNIT=SYSDA,
    SPACE=(400,(20,20))
 37 XXSYSPRINT DD SYSOUT=&OUTC
    IEFC653I SUBSTITUTION JCL — SYSOUT=*
```

```
     38 XXSYSIN    DD DUMMY
        XX*
     39 XXEX1  EXPORT SYMLIST=*
     40 XX SET PGM=&PROGMBR
        IEFC653I SUBSTITUTION JCL - PGM=CMMNTF2A
     41 XXPGM       EXPORT EXPSET=CMMNTF2A
GENERATED STATEMENT
        XX*
     42 XXLKED    EXEC PGM=IEWL,REGION=&REG,
        XX             PARM='&LNKPARM',COND=(7,LT,COBOL)
        IEFC653I SUBSTITUTION JCL -
PGM=IEWL,REGION=0M,PARM='LIST,XREF,RENT,MAP',COND=(7,LT,COBOL)
     43 XXSYSLIB   DD DSN=&INDEX..SDFHLOAD,DISP=SHR
        IEFC653I SUBSTITUTION JCL -
DSN=DFH610.CICS.SDFHLOAD,DISP=SHR
     44 XX         DD DSN=&LIBPRFX..SCEELKED,DISP=SHR
        IEFC653I SUBSTITUTION JCL - DSN=CEE.SCEELKED,DISP=SHR
     45 XXSYSLMOD  DD DSN=&PROGLIB,DISP=SHR
        IEFC653I SUBSTITUTION JCL -
DSN=TSOECCC.CICSTS12.STUDENT.LOADLIB,DISP=SHR
     46 XXSYSUT1   DD UNIT=&WORK,DCB=BLKSIZE=1024,
        XX             SPACE=(1024,(200,20))
        IEFC653I SUBSTITUTION JCL -
UNIT=SYSDA,DCB=BLKSIZE=1024,SPACE=(1024,(200,20))
     47 XXSYSPRINT DD SYSOUT=&OUTC
        IEFC653I SUBSTITUTION JCL - SYSOUT=*
     48 XXSYSLIN   DD DSN=&&COPYLINK,DISP=(OLD,DELETE)
     49 XX         DD DSN=&&LOADSET,DISP=(OLD,DELETE)
     50 XX         DD DDNAME=SYSIN
     51 XXSYSIN    DD *,SYMBOLS=(EXECSYS)
        XX*
     52 XXPGM       EXPORT EXPSET=
GENERATED STATEMENT
        //* NAME OF PROGRAM AND MEMBER TO TRANSLATE/COMPILE/LKED
        /*
 STMT NO. MESSAGE
        3 IEFC001I PROCEDURE DFHZITCL WAS EXPANDED USING PRIVATE
LIBRARY KC03F2A.DCMAFD02.PROCLIB
ICH70001I KC03F2A  LAST ACCESS AT 14:58:51 ON FRIDAY, NOVEMBER 22,
```

2024
IEFA111I CMMNTF2A IS USING THE FOLLOWING JOB RELATED SETTINGS:
         SWA=ABOVE,TIOT SIZE=32K,DSENQSHR=DISALLOW,GDGBIAS=JOB
IEF236I ALLOC. FOR CMMNTF2A COBOL COMPLI
IEF237I 1A76 ALLOCATED TO STEPLIB
IEF237I 1847 ALLOCATED TO
IEF237I 1847 ALLOCATED TO SYSLIB
IGD103I SMS ALLOCATED TO DDNAME
IGD103I SMS ALLOCATED TO DDNAME
IGD103I SMS ALLOCATED TO DDNAME
IEF237I 1847 ALLOCATED TO
IEF237I 1847 ALLOCATED TO
IEF237I 1847 ALLOCATED TO
IEF237I JES2 ALLOCATED TO SYSPRINT
IGD101I SMS ALLOCATED TO DDNAME (SYSLIN)
        DSN (*SYS24327.T153018.RA000.CMMNTF2A.LOADSET.H01*)
        STORCLAS (TEMPSC) MGMTCLAS (   ) DATACLAS (   )
        VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT1)
        DSN (*SYS24327.T153018.RA000.CMMNTF2A.R0123458*   )
        STORCLAS (TEMPSC) MGMTCLAS (   ) DATACLAS (   )
        VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT2)
        DSN (*SYS24327.T153018.RA000.CMMNTF2A.R0123459*   )
        STORCLAS (TEMPSC) MGMTCLAS (   ) DATACLAS (   )
        VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT3)
        DSN (*SYS24327.T153018.RA000.CMMNTF2A.R0123460*   )
        STORCLAS (TEMPSC) MGMTCLAS (   ) DATACLAS (   )
        VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT4)
        DSN (*SYS24327.T153018.RA000.CMMNTF2A.R0123461*   )
        STORCLAS (TEMPSC) MGMTCLAS (   ) DATACLAS (   )
        VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT5)
        DSN (*SYS24327.T153018.RA000.CMMNTF2A.R0123462*   )
        STORCLAS (TEMPSC) MGMTCLAS (   ) DATACLAS (   )
        VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT6)

```
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123463    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT7  )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123464    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT8  )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123465    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT9  )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123466    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT10 )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123467    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT11 )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123468    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT12 )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123469    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT13 )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123470    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT14 )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123471    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
IGD101I SMS ALLOCATED TO DDNAME (SYSUT15 )
              DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123472    )
              STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (       )
              VOL SER NOS= KCTR01
```

```
IGD101I SMS ALLOCATED TO DDNAME (SYSMDECK)
        DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123473    )
        STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
        VOL SER NOS= KCTR01
IGD103I SMS ALLOCATED TO DDNAME SYSIN
IEF285I   VENDOR.PARMLIB                                  KEPT
IEF285I   VOL SER NOS= VPMVSD.
IEF285I   SVTSC.PARMLIB                                   KEPT
IEF285I   VOL SER NOS= VTMVSG.
IEF285I   LVL0.PARMLIB                                    KEPT
IEF285I   VOL SER NOS= VTLVL0.
IEF285I   SYS1.PARMLIB                                    KEPT
IEF285I   VOL SER NOS= VIMVSB.
IEF764I CMMNTF2A COMPLI COBOL DFHAPIR DFHEIMOD PARMLIB READ FAILED
— MEMBER DFHAPIR NOT FOUND.
IEF285I   VENDOR.PARMLIB                                  KEPT
IEF285I   VOL SER NOS= VPMVSD.
IEF285I   SVTSC.PARMLIB                                   KEPT
IEF285I   VOL SER NOS= VTMVSG.
IEF285I   LVL0.PARMLIB                                    KEPT
IEF285I   VOL SER NOS= VTLVL0.
IEF285I   SYS1.PARMLIB                                    KEPT
IEF285I   VOL SER NOS= VIMVSB.
IEF764I CMMNTF2A COMPLI COBOL DFHAPIR DFHEIMOD PARMLIB READ FAILED
— MEMBER DFHAPIR NOT FOUND.
IEF142I CMMNTF2A COBOL COMPLI — STEP WAS EXECUTED — COND CODE 0000
IEF285I   IGY630.SIGYCOMP                                 KEPT
IEF285I   VOL SER NOS= VTIGYL.
IEF285I   DFH610.CICS.SDFHLOAD                            KEPT
IEF285I   VOL SER NOS= VTDFHL.
IEF285I   DFH610.CICS.SDFHCOB                             KEPT
IEF285I   VOL SER NOS= VTDFHL.
IGD104I KC03F2A.DCMAFD02.A5P3.COBOL                 RETAINED,
DDNAME=
IGD104I KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL          RETAINED,
DDNAME=
IGD104I KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL          RETAINED,
DDNAME=
IEF285I   DFH610.CICS.SDFHCOB                             KEPT
```

```
IEF285I    VOL SER NOS= VTDFHL.
IEF285I    DFH610.CICS.SDFHMAC                        KEPT
IEF285I    VOL SER NOS= VTDFHL.
IEF285I    DFH610.CICS.SDFHSAMP                       KEPT
IEF285I    VOL SER NOS= VTDFHL.
IEF285I    KC03F2A.CMMNTF2A.JOB05246.D0000102.?       SYSOUT
IGD106I SYS24327.T153018.RA000.CMMNTF2A.LOADSET.H01  PASSED,
DDNAME=SYSLIN
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123458     DELETED,
DDNAME=SYSUT1
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123459     DELETED,
DDNAME=SYSUT2
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123460     DELETED,
DDNAME=SYSUT3
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123461     DELETED,
DDNAME=SYSUT4
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123462     DELETED,
DDNAME=SYSUT5
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123463     DELETED,
DDNAME=SYSUT6
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123464     DELETED,
DDNAME=SYSUT7
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123465     DELETED,
DDNAME=SYSUT8
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123466     DELETED,
DDNAME=SYSUT9
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123467     DELETED,
DDNAME=SYSUT10
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123468     DELETED,
DDNAME=SYSUT11
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123469     DELETED,
DDNAME=SYSUT12
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123470     DELETED,
DDNAME=SYSUT13
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123471     DELETED,
DDNAME=SYSUT14
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123472     DELETED,
DDNAME=SYSUT15
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123473     DELETED,
```

```
DDNAME=SYSMDECK
IGD104I KC03F2A.DCMAFD02.A5P3.COBOL                    RETAINED,
DDNAME=SYSIN
IEF373I STEP/COBOL   /START 2024327.1530
IEF032I STEP/COBOL   /STOP  2024327.1530
        CPU:     0 HR  00 MIN  00.09 SEC    SRB:     0 HR  00 MIN
00.00 SEC
        VIRT:  7892K  SYS:    784K  EXT:   137140K  SYS:     13804K
        ATB- REAL:                  12268K  SLOTS:
0K
             VIRT- ALLOC:      540M SHRD:       0M
IEF236I ALLOC. FOR CMMNTF2A COPYLINK COMPLI
IEF237I 1847 ALLOCATED TO SYSUT1
IGD101I SMS ALLOCATED TO DDNAME (SYSUT2  )
        DSN (SYS24327.T153018.RA000.CMMNTF2A.COPYLINK.H01)
        STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
        VOL SER NOS= KCTR01
IEF237I JES2 ALLOCATED TO SYSPRINT
IEF237I DMY  ALLOCATED TO SYSIN
IEF142I CMMNTF2A COPYLINK COMPLI - STEP WAS EXECUTED - COND CODE
0000
IEF285I   DFH610.CICS.SDFHSAMP                       KEPT
IEF285I   VOL SER NOS= VTDFHL.
IGD106I SYS24327.T153018.RA000.CMMNTF2A.COPYLINK.H01 PASSED,
DDNAME=SYSUT2
IEF285I   KC03F2A.CMMNTF2A.JOB05246.D0000103.?       SYSOUT
IEF373I STEP/COPYLINK/START 2024327.1530
IEF032I STEP/COPYLINK/STOP  2024327.1530
        CPU:     0 HR  00 MIN  00.00 SEC    SRB:     0 HR  00 MIN
00.00 SEC
        VIRT:   228K  SYS:    252K  EXT:      12K  SYS:     11600K
        ATB- REAL:                   1308K  SLOTS:
0K
             VIRT- ALLOC:       22M SHRD:       0M
IEF236I ALLOC. FOR CMMNTF2A LKED COMPLI
IEF237I 1847 ALLOCATED TO SYSLIB
IEF237I 1001 ALLOCATED TO
IGD103I SMS ALLOCATED TO DDNAME SYSLMOD
IGD101I SMS ALLOCATED TO DDNAME (SYSUT1  )
```

```
        DSN (SYS24327.T153018.RA000.CMMNTF2A.R0123474    )
        STORCLAS (TEMPSC) MGMTCLAS (        ) DATACLAS (        )
        VOL SER NOS= KCTR01
IEF237I JES2 ALLOCATED TO SYSPRINT
IGD103I SMS ALLOCATED TO DDNAME SYSLIN
IGD103I SMS ALLOCATED TO DDNAME
IEF237I JES2 ALLOCATED TO
IEF142I CMMNTF2A LKED COMPLI – STEP WAS EXECUTED – COND CODE 0000
IEF285I   DFH610.CICS.SDFHLOAD                    KEPT
IEF285I   VOL SER NOS= VTDFHL.
IEF285I   CEE.SCEELKED                            KEPT
IEF285I    VOL SER NOS= VTMVSC.
IGD104I TSOECCC.CICSTS12.STUDENT.LOADLIB          RETAINED,
DDNAME=SYSLMOD
IGD105I SYS24327.T153018.RA000.CMMNTF2A.R0123474     DELETED,
DDNAME=SYSUT1
IEF285I   KC03F2A.CMMNTF2A.JOB05246.D0000104.?        SYSOUT
IGD105I SYS24327.T153018.RA000.CMMNTF2A.COPYLINK.H01 DELETED,
DDNAME=SYSLIN
IGD105I SYS24327.T153018.RA000.CMMNTF2A.LOADSET.H01  DELETED,
DDNAME=
IEF285I   KC03F2A.CMMNTF2A.JOB05246.D0000101.?        SYSIN
IEF373I STEP/LKED    /START 2024327.1530
IEF032I STEP/LKED    /STOP  2024327.1530
      CPU:     0 HR  00 MIN  00.01 SEC    SRB:     0 HR  00 MIN
00.00 SEC
        VIRT:   88K  SYS:   256K  EXT:    1768K  SYS:    11768K
        ATB– REAL:              1316K  SLOTS:
0K
          VIRT– ALLOC:      25M SHRD:      0M
IEF375I  JOB/CMMNTF2A/START 2024327.1530
IEF033I  JOB/CMMNTF2A/STOP  2024327.1530
      CPU:     0 HR  00 MIN  00.10 SEC    SRB:     0 HR  00 MIN
00.00 SEC
   NAME &PGM(R)
PP 5655–EC6 IBM Enterprise COBOL for z/OS  6.3.0 P240628
Date 11/22/2024  Time 15:30:21   Page    1
Invocation parameters:
 NODYNAM,RENT,CICS('COBOL3,SP')
```

Options in effect:
 NOADATA
   ADV
   AFP(NOVOLATILE)
   QUOTE
   ARCH(8)
   ARITH(COMPAT)
 NOAWO
 NOBLOCK0
   BUFSIZE(4096)
   CICS('COBOL3,SP')
   CODEPAGE(1140)
 NOCOMPILE(S)
   CONDCOMP(NOSKIPSRC)
 NOCOPYLOC
 NOCOPYRIGHT
 NOCURRENCY
   DATA(31)
   DBCS
 NODECK
 NODEFINE
 NODIAGTRUNC
   DISPSIGN(COMPAT)
 NODLL
 NODUMP
 NODYNAM
 NOEXIT
 NOEXPORTALL
 NOFASTSRT
   FLAG(I,I)
 NOFLAGSTD
   HGPR(PRESERVE)
 NOINITCHECK
 NOINITIAL
   INLINE
   INTDATE(ANSI)
 NOINVDATA
   LANGUAGE(EN)
   LINECOUNT(60)

```
 NOLIST
   LP(32)
 NOMAP
   MAXPCF(100000)
 NOMDECK
 NONAME
   NSYMBOL(NATIONAL)
 NONUMBER
 NONUMCHECK
   NUMPROC(NOPFD)
   OBJECT
 NOOFFSET
   OPTIMIZE(0)
   OUTDD(SYSOUT)
 NOPARMCHECK
   PGMNAME(COMPAT)
PP 5655-EC6 IBM Enterprise COBOL for z/OS  6.3.0 P240628
Date 11/22/2024  Time 15:30:21   Page     2
   QUALIFY(COMPAT)
   RENT
   RMODE(AUTO)
 NORULES
 NOSERVICE
   SEQUENCE
   SOURCE(DEC)
   SPACE(1)
 NOSQL
   SQLCCSID
 NOSQLIMS
 NOSSRANGE
 NOSTGOPT
   SUPPRESS
 NOTERM
 NOTEST(NODWARF,NOSOURCE,NOSEPARATE)
 NOTHREAD
   TRUNC(STD)
   TUNE(8)
 NOVBREF
   VLR(STANDARD)
```

```
    VSAMOPENFS(COMPAT)
 NOWORD
   XMLPARSE(XMLSS)
   XREF(FULL)
   ZWB
CICS Options in effect:
 CICS
 DEBUG
 EDF
 SP
 NATLANG(EN)
 APOST
 NOSYSEIB
 NOFEPI
 NOCPSM
 LINKAGE
 COBOL3
 LENGTH
PP 5655-EC6 IBM Enterprise COBOL for z/OS  6.3.0 P240628
CMMNTF2A  Date 11/22/2024  Time 15:30:21    Page    3
  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000001                    IDENTIFICATION DIVISION.
  000002                    PROGRAM-ID. CMMNTF2A.
  000003                    AUTHOR. TALENT NYOTA.
  000004                    DATE-WRITTEN. 22-11-2024.
  000005                   *PROGRAM DESCRIPTION: COBOL source for MAINT
program
  000006              *
  000007              *
  000008                ENVIRONMENT DIVISION.
  000009              *
  000010                DATA DIVISION.
  000011              *
  000012                WORKING-STORAGE SECTION.
  000013              *
  000014                01 WS-COMMUNICATION-AREA.
  000015                    05 WS-CA-CONTEXT-FLAG            PIC
X(01).
```

```
  000016                        88 WS-CA-PROCESS-KEY-MAP-88
VALUE '1'.
  000017                        88 WS-CA-PROCESS-ADD-CUST-88
VALUE '2'.
  000018                        88 WS-CA-PROCESS-CHG-CUST-88
VALUE '3'.
  000019                        88 WS-CA-PROCESS-DEL-CUST-88
VALUE '4'.
  000020                     05 WS-CA-CUSTOMER-RECORD.
  000021                        10 WS-CA-CUSTOMER-NUMBER     PIC
X(06).
  000022                        10 FILLER                   PIC
X(112).
  000023              *
  000024            01 WS-CNSTS.
  000025                     05 WS-TRUE-CNST                PIC X
VALUE 'Y'.
  000026                     05 WS-FALSE-CNST               PIC X
VALUE 'N'.
  000027                     05 WS-YES-CNST                 PIC X
VALUE 'Y'.
  000028                     05 WS-NO-CNST                  PIC X
VALUE 'N'.
  000029                     05 WS-OPEN-CNST                PIC X
VALUE 'Y'.
  000030                     05 WS-CLOSED-CNST              PIC X
VALUE 'N'.
  000031              *
  000032            01 WS-CICS-CNSTS.
  000033                     05 WS-MEN-PROGRAM-CNST          PIC
X(08) VALUE 'UUMENF2A'.
  000034                     05 WS-MNT-TRANSID-CNST          PIC
X(04) VALUE 'VF2A'.
  000035                     05 WS-MNT-MAPSET-CNST           PIC
X(07) VALUE 'MNTSF2A'.
  000036                     05 WS-MNT-MAP1-CNST             PIC
X(07) VALUE 'MNT1F2A'.
  000037                     05 WS-MNT-MAP2-CNST             PIC
X(07) VALUE 'MNT2F2A'.
```

```
  000038                       *
  000039                        01 WS-FILE-CNSTS.
  000040                          05 WS-CMF-FILE-NAME-CNST       PIC
X(08) VALUE 'CMFF2A  '.
  000041                       *
  000042                        01 WS-FLAGS.
  000043                          05 WS-VALID-DATA-FLAG          PIC
X(01) VALUE 'Y'.
  000044                            88 WS-VALID-DATA-88
VALUE 'Y'.
  000045                          05 WS-SEND-FLAG                PIC
X(01).
  000046                            88 WS-SEND-ERASE-88
VALUE '1'.
  000047                            88 WS-SEND-ERASE-ALARM-88
VALUE '2'.
  000048                            88 WS-SEND-DATAONLY-88
VALUE '3'.
  000049                            88 WS-SEND-DATAONLY-ALARM-88
VALUE '4'.
  000050                       *
  000051                        01 WS-RESPONSE-CODES.
  000052                          05 WS-RESPONSE-CODE            PIC
S9(8)  COMP VALUE 0.
  000053                          05 WS-RESPONSE-CODE2           PIC
S9(8)  COMP VALUE 0.
  000054                       *
  000055                        01 WS-END-OF-SESSION-MESSAGE     PIC
X(13)
  000056                          VALUE 'Session ended'.
  000057                       *
PP 5655-EC6 IBM Enterprise COBOL for z/OS  6.3.0 P240628
CMMNTF2A  Date 11/22/2024  Time 15:30:21    Page     4
   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000058                        01 WS-USER-MESSAGES.
  000059                       *              ----+----1----+----2----
+----3----+----4
  000060                          05 WS-ADD.
```

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```
  000061                              10 FILLER                      PIC
X(40)
  000062                                 VALUE 'Type information for new
customer. Then'.
  000063                              10 FILLER                      PIC
X(39)
  000064                                 VALUE ' Press Enter.
'.
  000065                   *                  ----+----1----+----2----
+----3----+----4
  000066                   05 WS-CHG.
  000067                              10 FILLER                      PIC
X(40)
  000068                                 VALUE 'Type changes.  Then
press Enter.       '.
  000069                              10 FILLER                      PIC
X(39)
  000070                                 VALUE SPACES.
IMP
  000071                   *                  ----+----1----+----2----
+----3----+----4
  000072                   05 WS-DEL.
  000073                              10 FILLER                      PIC
X(40)
  000074                                 VALUE 'Press Enter to delete
this customer or '.
  000075                              10 FILLER                      PIC
X(39)
  000076                                 VALUE 'press F12
'.
  000077                   *                  ----+----1----+----2----
+----3----+----4
  000078                   05 WS-KEY-UNASSIGNED.
  000079                              10 FILLER                      PIC
X(40)
  000080                                 VALUE 'That key is unassigned.
'.
  000081                              10 FILLER                      PIC
X(39)
```

```
  000082                               VALUE SPACES.
IMP
  000083               *              ----+----1----+----2----
+----3----+----4
  000084               05 WS-ACTION-INVALID.
  000085                  10 FILLER                    PIC
X(40)
  000086                     VALUE 'Action must be 1, 2, or
3.               '.
  000087                  10 FILLER                    PIC
X(39)
  000088                     VALUE SPACES.
IMP
  000089               *              ----+----1----+----2----
+----3----+----4
  000090               05 WS-ENTER-CUST-NBR.
  000091                  10 FILLER                    PIC
X(40)
  000092                     VALUE 'You must enter a
customer number.      '.
  000093                  10 FILLER                    PIC
X(39)
  000094                     VALUE SPACES.
IMP
  000095               *              ----+----1----+----2----
+----3----+----4
  000096               05 WS-CUST-EXISTS.
  000097                  10 FILLER                    PIC
X(40)
  000098                     VALUE 'That customer already
exists.          '.
  000099                  10 FILLER                    PIC
X(39)
  000100                     VALUE SPACES.
IMP
  000101               *              ----+----1----+----2----
+----3----+----4
  000102               05 WS-CUST-DOES-NOT-EXIST.
  000103                  10 FILLER                    PIC
```

```
 X(40)
   000104                          VALUE 'That customer does not
 exist.           '.
   000105                          10 FILLER                    PIC
 X(39)
   000106                          VALUE SPACES.
 IMP
   000107              *                 ----+----1----+----2----
 +----3----+----4
   000108              05 WS-CUST-ADDED.
   000109                          10 FILLER                    PIC
 X(40)
   000110                          VALUE 'Customer record added.
 '.
   000111                          10 FILLER                    PIC
 X(39)
   000112                          VALUE SPACES.
 IMP
   000113              *                 ----+----1----+----2----
 +----3----+----4
   000114              05 WS-CUST-ADDED-BY-ANOTHER.
 PP 5655-EC6 IBM Enterprise COBOL for z/OS  6.3.0 P240628
 CMMNTF2A  Date 11/22/2024  Time 15:30:21   Page     5
   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
 +----5----+----6----+----7-|--+----8 Map and Cross Reference
   000115                          10 FILLER                    PIC
 X(40)
   000116                          VALUE 'Another user has added a
 record with th'.
   000117                          10 FILLER                    PIC
 X(39)
   000118                          VALUE 'at customer number.
 '.
   000119              *                 ----+----1----+----2----
 +----3----+----4
   000120              05 WS-CUST-UPDATED.
   000121                          10 FILLER                    PIC
 X(40)
   000122                          VALUE 'Customer record updated.
```

```
 '.
  000123                          10 FILLER                    PIC
X(39)
  000124                             VALUE SPACES.
IMP
  000125              *              ----+----1----+----2----
+----3----+----4
  000126              05 WS-CUST-UPDATED-BY-ANOTHER.
  000127                          10 FILLER                    PIC
X(40)
  000128                             VALUE 'Another user has updated
the record. Tr'.
  000129                          10 FILLER                    PIC
X(39)
  000130                             VALUE 'y again.
 '.
  000131              *              ----+----1----+----2----
+----3----+----4
  000132              05 WS-CUST-DELETED.
  000133                          10 FILLER                    PIC
X(40)
  000134                             VALUE 'Customer record deleted.
 '.
  000135                          10 FILLER                    PIC
X(39)
  000136                             VALUE SPACES.
IMP
  000137              *              ----+----1----+----2----
+----3----+----4
  000138              05 WS-CUST-DELETED-BY-ANOTHER.
  000139                          10 FILLER                    PIC
X(40)
  000140                             VALUE 'Another user has deleted
the record. Tr'.
  000141                          10 FILLER                    PIC
X(39)
  000142                             VALUE 'y again.
 '.
  000143              *              ----+----1----+----2----
```

```
+----3----+----4
  000144                      05 WS-ENTER-ZIP-CODE.
  000145                          10 FILLER                      PIC
X(40)
  000146                              VALUE 'You must enter a zip
code.                '.
  000147                          10 FILLER                      PIC
X(39)
  000148                              VALUE SPACES.
IMP
  000149              *              ----+----1----+----2----
+----3----+----4
  000150                      05 WS-ENTER-STATE.
  000151                          10 FILLER                      PIC
X(40)
  000152                              VALUE 'You must enter a state.
'.
  000153                          10 FILLER                      PIC
X(39)
  000154                              VALUE SPACES.
IMP
  000155              *              ----+----1----+----2----
+----3----+----4
  000156                      05 WS-ENTER-CITY.
  000157                          10 FILLER                      PIC
X(40)
  000158                              VALUE 'You must enter a city.
'.
  000159                          10 FILLER                      PIC
X(39)
  000160                              VALUE SPACES.
IMP
  000161              *              ----+----1----+----2----
+----3----+----4
  000162                      05 WS-ENTER-ADDRESS.
  000163                          10 FILLER                      PIC
X(40)
  000164                              VALUE 'You must enter a
address.                '.
```

```
  000165                             10 FILLER                    PIC
X(39)
  000166                               VALUE SPACES.
IMP
  000167                *                  ----+----1----+----2----
+----3----+----4
  000168                  05 WS-ENTER-FIRST-NAME.
  000169                             10 FILLER                    PIC
X(40)
  000170                               VALUE 'You must enter a first
name.            '.
  000171                             10 FILLER                    PIC
X(39)
```

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CMMNTF2A Date 11/22/2024 Time 15:30:21   Page   6
  LineID PL SL ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference

```
  000172                               VALUE SPACES.
IMP
  000173                *                  ----+----1----+----2----
+----3----+----4
  000174                  05 WS-ENTER-LAST-NAME.
  000175                             10 FILLER                    PIC
X(40)
  000176                               VALUE 'You must enter a last
name.            '.
  000177                             10 FILLER                    PIC
X(39)
  000178                               VALUE SPACES.
IMP
  000179             *
  000180              COPY ATTR.
  000181C             01  ATTRIBUTE-DEFINITIONS.
  000182C             *
  000183C                  05  ATTR-UNPROT           PIC X
VALUE ' '.
  000184C                  05  ATTR-UNPROT-MDT       PIC X
VALUE X'C1'.
  000185C                  05  ATTR-UNPROT-BRT       PIC X
```

VALUE X'C8'.
```
  000186C                    05  ATTR-UNPROT-BRT-MDT         PIC X
```
VALUE X'C9'.
```
  000187C                    05  ATTR-UNPROT-DARK            PIC X
```
VALUE X'4C'.
```
  000188C                    05  ATTR-UNPROT-DARK-MDT        PIC X
```
VALUE X'4D'.
```
  000189C                    05  ATTR-UNPROT-NUM             PIC X
```
VALUE X'50'.
```
  000190C                    05  ATTR-UNPROT-NUM-MDT         PIC X
```
VALUE X'D1'.
```
  000191C                    05  ATTR-UNPROT-NUM-BRT         PIC X
```
VALUE X'D8'.
```
  000192C                    05  ATTR-UNPROT-NUM-BRT-MDT     PIC X
```
VALUE X'D9'.
```
  000193C                    05  ATTR-UNPROT-NUM-DARK        PIC X
```
VALUE X'5C'.
```
  000194C                    05  ATTR-UNPROT-NUM-DARK-MDT    PIC X
```
VALUE X'5D'.
```
  000195C                    05  ATTR-PROT                   PIC X
```
VALUE X'60'.
```
  000196C                    05  ATTR-PROT-MDT               PIC X
```
VALUE X'61'.
```
  000197C                    05  ATTR-PROT-BRT               PIC X
```
VALUE X'E8'.
```
  000198C                    05  ATTR-PROT-BRT-MDT           PIC X
```
VALUE X'E9'.
```
  000199C                    05  ATTR-PROT-DARK              PIC X
```
VALUE '%'.
```
  000200C                    05  ATTR-PROT-DARK-MDT          PIC X
```
VALUE X'6D'.
```
  000201C                    05  ATTR-PROT-SKIP              PIC X
```
VALUE X'F0'.
```
  000202C                    05  ATTR-PROT-SKIP-MDT          PIC X
```
VALUE X'F1'.
```
  000203C                    05  ATTR-PROT-SKIP-BRT          PIC X
```
VALUE X'F8'.
```
  000204C                    05  ATTR-PROT-SKIP-BRT-MDT      PIC X
```
VALUE X'F9'.

```
  000205C                      05  ATTR-PROT-SKIP-DARK        PIC X
VALUE X'7C'.
  000206C                      05  ATTR-PROT-SKIP-DARK-MDT    PIC X
VALUE X'7D'.
  000207C              *
  000208C                      05  ATTR-NO-HIGHLIGHT          PIC X
VALUE X'00'.
  000209C                      05  ATTR-BLINK                PIC X
VALUE '1'.
  000210C                      05  ATTR-REVERSE              PIC X
VALUE '2'.
  000211C                      05  ATTR-UNDERSCORE           PIC X
VALUE '4'.
  000212C              *
  000213C                      05  ATTR-DEFAULT-COLOR        PIC X
VALUE X'00'.
  000214C                      05  ATTR-BLUE                 PIC X
VALUE '1'.
  000215C                      05  ATTR-RED                  PIC X
VALUE '2'.
  000216C                      05  ATTR-PINK                 PIC X
VALUE '3'.
  000217C                      05  ATTR-GREEN                PIC X
VALUE '4'.
  000218C                      05  ATTR-TURQUOISE            PIC X
VALUE '5'.
  000219C                      05  ATTR-YELLOW               PIC X
VALUE '6'.
  000220C                      05  ATTR-NEUTRAL              PIC X
VALUE '7'.
  000221C          *
  000222           *
  000223            COPY DFHAID.
  000224C
****************************************************************
  000225C          *
*
  000226C          *
*
```

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```
   000227C                    *
*
   000228C                    *         Licensed Materials – Property of IBM
*
PP 5655–EC6 IBM Enterprise COBOL for z/OS  6.3.0 P240628
CMMNTF2A  Date 11/22/2024  Time 15:30:21    Page     7
   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   000229C                    *
*
   000230C                    *         "Restricted Materials of IBM"
*
   000231C                    *
*
   000232C                    *         5655–YA1
*
   000233C                    *
*
   000234C                    *         (C) Copyright IBM Corp. 1988, 2022"
*
   000235C                    *
*
   000236C                    *
*
   000237C                    *
*
   000238C                    *
*
   000239C                    *   STATUS = 7.4.0
*
   000240C                    *
*
   000241C                    * CHANGE ACTIVITY :
*
   000242C                    *
*
   000243C                    *   $SEG(DFHAID),COMP(BMS),PROD(CICS TS ):
*
   000244C                    *
```

```
*
  000245C                  *  PN= REASON REL YYMMDD HDXXIII : REMARKS
*
  000246C                  * $D1= I07991 670 100820 HDIGPG  : Translate
unprintable char    *
  000247C                  * $L0= Base   210 88      HD1MA   : Base
*
  000248C                  *     R169962 740 220304 HDPJEM  : Fix
special chars           *
  000249C                  *
*
  000250C
*************************************************************
  000251C                   *
  000252C                   *
  000253C                   01    DFHAID.
  000254C                      02  DFHNULL   PIC  X  VALUE IS X'00'.
  000255C                      02  DFHENTER  PIC  X  VALUE IS ''''.
  000256C                      02  DFHCLEAR  PIC  X  VALUE IS '_'.
  000257C                      02  DFHCLRP   PIC  X  VALUE IS X'6A'.
  000258C                   * UPDATED DFHCLRP TO USE CHAR CODE
@R169962C
  000259C                      02  DFHPEN    PIC  X  VALUE IS '='.
  000260C                      02  DFHOPID   PIC  X  VALUE IS 'W'.
  000261C                      02  DFHMSRE   PIC  X  VALUE IS 'X'.
  000262C                      02  DFHSTRF   PIC  X  VALUE IS 'h'.
  000263C                      02  DFHTRIG   PIC  X  VALUE IS '"'.
  000264C                      02  DFHPA1    PIC  X  VALUE IS '%'.
  000265C                      02  DFHPA2    PIC  X  VALUE IS '>'.
  000266C                      02  DFHPA3    PIC  X  VALUE IS ','.
  000267C                      02  DFHPF1    PIC  X  VALUE IS '1'.
  000268C                      02  DFHPF2    PIC  X  VALUE IS '2'.
  000269C                      02  DFHPF3    PIC  X  VALUE IS '3'.
  000270C                      02  DFHPF4    PIC  X  VALUE IS '4'.
  000271C                      02  DFHPF5    PIC  X  VALUE IS '5'.
  000272C                      02  DFHPF6    PIC  X  VALUE IS '6'.
  000273C                      02  DFHPF7    PIC  X  VALUE IS '7'.
  000274C                      02  DFHPF8    PIC  X  VALUE IS '8'.
  000275C                      02  DFHPF9    PIC  X  VALUE IS '9'.
```

```
   000276C                     02  DFHPF10   PIC  X  VALUE IS ':'.
   000277C                     02  DFHPF11   PIC  X  VALUE IS '#'.
   000278C                     02  DFHPF12   PIC  X  VALUE IS '@'.
   000279C                     02  DFHPF13   PIC  X  VALUE IS 'A'.
   000280C                     02  DFHPF14   PIC  X  VALUE IS 'B'.
   000281C                     02  DFHPF15   PIC  X  VALUE IS 'C'.
   000282C                     02  DFHPF16   PIC  X  VALUE IS 'D'.
   000283C                     02  DFHPF17   PIC  X  VALUE IS 'E'.
   000284C                     02  DFHPF18   PIC  X  VALUE IS 'F'.
   000285C                     02  DFHPF19   PIC  X  VALUE IS 'G'.
```
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
```
   000286C                     02  DFHPF20   PIC  X  VALUE IS 'H'.
   000287C                     02  DFHPF21   PIC  X  VALUE IS 'I'.
   000288C                     02  DFHPF22   PIC  X  VALUE IS X'4A'.
   000289C               * UPDATED DFHPF22 TO USE CHAR CODE
@R169962C
   000290C                     02  DFHPF23   PIC  X  VALUE IS '.'.
   000291C                     02  DFHPF24   PIC  X  VALUE IS '<'.
   000292            *
   000293             COPY ERRORSWS.
   000294C           *
   000295C
*********************************************************************
   000296C           *
   000297C           * VARIABLES FOR USE WITH GENERAL ERROR MSG
HANDLING (SINGLE LINE)
   000298C           *
   000299C
*********************************************************************
   000300C           *
   000301C            01 WS-GM-GENERAL-ERROR-MSG.
   000302C                05  WS-GM-RESP                 PIC
S9(8) COMP.
   000303C                05  WS-GM-RESP2                PIC
S9(8) COMP.
   000304C                05  WS-GM-TRNID                PIC
```

```
                                                                      X(4).
  000305C                      05  WS-GM-RSRCE                            PIC
X(8).
  000306C                      05  WS-GM-MSG                             PIC
X(68).
  000307C                *
  000308C

****************************************************************
  000309C                *
  000310C                * VARIABLES FOR USE WITH ERROR MSG HANDLING
(EIGHT LINES)
  000311C                *
  000312C

****************************************************************
  000313C                *
  000314C                 01 WS-EM-ERROR-MESSAGE.
  000315C                      05 WS-EM-ERROR-LINE-1.
  000316C                *            ----+----1----+----2----
+----3----+----4
  000317C                      10 FILLER                         PIC
X(40)
  000318C                         VALUE 'ERROR:Review details and
correct problem'.
  000319C                      10 FILLER                         PIC
X(39)
  000320C                         VALUE ' in program or in the
resource used.    '.
  000321C                *            ----+----1----+----2----
+----3----+----
  000322C                      05 WS-EM-ERROR-LINE-2             PIC
X(79) VALUE SPACE.            IMP
  000323C                      05 WS-EM-ERROR-LINE-3.
  000324C                      10 FILLER                         PIC
X(11)
  000325C                         VALUE 'EIBRESP  = '.
  000326C                      10 WS-EM-RESP                     PIC
Z(08)9.
  000327C                      10 FILLER                         PIC
X(59) VALUE SPACE.            IMP
```

```
  000328C                         05 WS-EM-ERROR-LINE-4.
  000329C                           10 FILLER                         PIC
X(11)
  000330C                               VALUE 'EIBRESP2 = '.
  000331C                           10 WS-EM-RESP2                     PIC
Z(08)9.
  000332C                           10 FILLER                         PIC
X(59) VALUE SPACE.            IMP
  000333C                         05 WS-EM-ERROR-LINE-5.
  000334C                           10 FILLER                         PIC
X(11)
  000335C                               VALUE 'EIBTRNID = '.
  000336C                           10 WS-EM-TRNID                     PIC
X(04).
  000337C                           10 FILLER                         PIC
X(64) VALUE SPACE.            IMP
  000338C                         05 WS-EM-ERROR-LINE-6.
  000339C                           10 FILLER                         PIC
X(11)
  000340C                               VALUE 'EIBRSRCE = '.
  000341C                           10 WS-EM-RSRCE                     PIC
X(08).
  000342C                           10 FILLER                         PIC
X(60) VALUE SPACE.            IMP
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000343C                         05 WS-EM-ERROR-LINE-7.
  000344C                           10 FILLER                         PIC
X(11)
  000345C                               VALUE 'MESSAGE  = '.
  000346C                           10 WS-EM-MSG                       PIC
X(68).
  000347C                         05 WS-EM-ERROR-LINE-8               PIC
X(79) VALUE SPACE.            IMP
  000348C                    *
  000349C
****************************************************************
```

```
   000350C                    *
   000351C                    * VARIABLES FOR USE WITH HANDLE ABEND LOGIC
   000352C                    *
   000353C
********************************************************************
   000354C                    *
   000355C                     01 WS-HA-HANDLE-ABEND-MSG.
   000356C                        05 WS-HA-MSG-T1                  PIC
X(79) VALUE SPACES.          IMP
   000357C                        05 WS-HA-MSG-T2                  PIC
X(79) VALUE SPACES.          IMP
   000358C                        05 WS-HA-MSG-T3                  PIC
X(79) VALUE SPACES.          IMP
   000359C                        05 WS-HA-MSG-T4                  PIC
X(79) VALUE SPACES.          IMP
   000360C                        05 WS-HA-MSG-T5                  PIC
X(79) VALUE SPACES.          IMP
   000361C                        05 WS-HA-MSG-T6                  PIC
X(79) VALUE SPACES.          IMP
   000362C                        05 WS-HA-MSG-T7                  PIC
X(79) VALUE SPACES.          IMP
   000363C                        05 WS-HA-MSG-T8                  PIC
X(79) VALUE SPACES.          IMP
   000364C                    *
   000365C                     01 WS-HANDLE-ABEND-MSGS.
   000366C                        05 WS-HA-UNEXPECTED-ABEND        PIC
X(20)
   000367C                             VALUE 'ABEND UNEXPECTED    '.
   000368C                    *        ----+----0----+----1
   000369C                        05 WS-HA-UNHANDLED-ABEND         PIC
X(20)
   000370C                             VALUE 'ABEND UNHANDLED     '.
   000371C                    *        ----+----0----+----1
   000372C                     01 WS-HA-EXEC-TEXT.
   000373C                        05 WS-HA-EXEC-TEXT-T1            PIC
X(79) VALUE SPACES.          IMP
   000374C                        05 WS-HA-EXEC-TEXT-T2            PIC
X(79) VALUE SPACES.          IMP
   000375C                        05 WS-HA-EXEC-TEXT-T3            PIC
```

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```
X(79) VALUE SPACES.          IMP
   000376C                   05 WS-HA-EXEC-TEXT-T4          PIC
X(79) VALUE SPACES.          IMP
   000377C                   05 WS-HA-EXEC-TEXT-T5          PIC
X(79) VALUE SPACES.          IMP
   000378C                   05 WS-HA-EXEC-TEXT-T6          PIC
X(79) VALUE SPACES.          IMP
   000379C                   05 WS-HA-EXEC-TEXT-T7          PIC
X(79) VALUE SPACES.          IMP
   000380C                   05 WS-HA-EXEC-TEXT-T8          PIC
X(79) VALUE SPACES.          IMP
   000381C              *
   000382C            01 WS-HA-ERR-MSG-NBRS.
   000383C                   05 WS-HA-ERR-MSG-FILENOTFOUND  PIC
9(3)  VALUE 12.
   000384C                   05 WS-HA-ERR-MSG-PGMIDERR      PIC
9(3)  VALUE 27.
   000385C                   05 WS-HA-ERR-MSG-TRANSIDERR    PIC
9(3)  VALUE 28.
   000386C                   05 WS-HA-ERR-MSG-MAPFAIL       PIC
9(3)  VALUE 36.
   000387C              *
   000388C
****************************************************************
   000389C              *
   000390C              * VARIABLES FOR USE WITH RESPONSE TEXT TABLE
LOOKUP LOGIC
   000391C              * WRITTEN BY - GREGORY OAKES - 2021-APR-15
   000392C              *
   000393C
****************************************************************
   000394C              * TRANSLATE EXEC CICS COMMANDS FROM NUMERIC
VALUES TO X(15) TEXT
   000395C              * IN CICS PROGRAMS AND DISPLAY ERROR MESSAGE
TO DECODE CODE ISSUES
   000396C              * OR HELP DEBUG ABEND ISSUES.
   000397C              *
   000398C
****************************************************************
```

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```
  000399C                    *
123456789012345
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000400C                  01 WS-RT-MSG-TABLE-DATA.
  000401C                    05 WS-RT-001-ERROR       PIC X(15)
VALUE "ERROR          ".
  000402C                    05 WS-RT-002-RDATT       PIC X(15)
VALUE "RDATT          ".
  000403C                    05 WS-RT-003-WRBRK       PIC X(15)
VALUE "WRBRK          ".
  000404C                    05 WS-RT-004-EOF         PIC X(15)
VALUE "EOF            ".
  000405C                    05 WS-RT-005-EODS        PIC X(15)
VALUE "EODS           ".
  000406C                    05 WS-RT-006-EOC         PIC X(15)
VALUE "EOC            ".
  000407C                    05 WS-RT-007-INBFMH      PIC X(15)
VALUE "INBFMH         ".
  000408C                    05 WS-RT-008-ENDINPT     PIC X(15)
VALUE "ENDINPT        ".
  000409C                    05 WS-RT-009-NONVAL      PIC X(15)
VALUE "NONVAL         ".
  000410C                    05 WS-RT-010-NOSTART     PIC X(15)
VALUE "NOSTART        ".
  000411C                    05 WS-RT-011-TERMIDERR   PIC X(15)
VALUE "TERMIDERR      ".
  000412C                    05 WS-RT-012-FILENOTFOUND PIC X(15)
VALUE "FILENOTFOUND   ".
  000413C                    05 WS-RT-013-NOTFND      PIC X(15)
VALUE "NOTFND         ".
  000414C                    05 WS-RT-014-DUPREC      PIC X(15)
VALUE "DUPREC         ".
  000415C                    05 WS-RT-015-DUPKEY      PIC X(15)
VALUE "DUPKEY         ".
  000416C                    05 WS-RT-016-INVREQ      PIC X(15)
VALUE "INVREQ         ".
```

```
     000417C                      05 WS-RT-017-IOERR         PIC X(15)
VALUE "IOERR         ".
     000418C                      05 WS-RT-018-NOSPACE       PIC X(15)
VALUE "NOSPACE       ".
     000419C                      05 WS-RT-019-NOTOPEN       PIC X(15)
VALUE "NOTOPEN       ".
     000420C                      05 WS-RT-020-ENDFILE       PIC X(15)
VALUE "ENDFILE       ".
     000421C                      05 WS-RT-021-ILLOGIC       PIC X(15)
VALUE "ILLOGIC       ".
     000422C                      05 WS-RT-022-LENGERR       PIC X(15)
VALUE "LENGERR       ".
     000423C                      05 WS-RT-023-QZERO         PIC X(15)
VALUE "QZERO         ".
     000424C                      05 WS-RT-024-SIGNAL        PIC X(15)
VALUE "SIGNAL        ".
     000425C                      05 WS-RT-025-QBUSY         PIC X(15)
VALUE "QBUSY         ".
     000426C                      05 WS-RT-026-ITEMERR       PIC X(15)
VALUE "ITEMERR       ".
     000427C                      05 WS-RT-027-PGMIDERR      PIC X(15)
VALUE "PGMIDERR      ".
     000428C                      05 WS-RT-028-TRANSIDERR    PIC X(15)
VALUE "TRANSIDERR    ".
     000429C                      05 WS-RT-029-ENDDATA       PIC X(15)
VALUE "ENDDATA       ".
     000430C                      05 WS-RT-030-INVTSREQ      PIC X(15)
VALUE "INVTSREQ      ".
     000431C                      05 WS-RT-031-EXPIRED       PIC X(15)
VALUE "EXPIRED       ".
     000432C                      05 WS-RT-032-RETPAGE       PIC X(15)
VALUE "RETPAGE       ".
     000433C                      05 WS-RT-033-RTEFAIL       PIC X(15)
VALUE "RTEFAIL       ".
     000434C                      05 WS-RT-034-RTESOME       PIC X(15)
VALUE "RTESOME       ".
     000435C                      05 WS-RT-035-TSIOERR       PIC X(15)
VALUE "TSIOERR       ".
     000436C                      05 WS-RT-036-MAPFAIL       PIC X(15)
```

```
          VALUE "MAPFAIL        ".
            000437C                    05 WS-RT-037-INVERRTERM   PIC X(15)
          VALUE "INVERRTERM     ".
            000438C                    05 WS-RT-038-INVMPSZ      PIC X(15)
          VALUE "INVMPSZ        ".
            000439C                    05 WS-RT-039-IGREQID      PIC X(15)
          VALUE "IGREQID        ".
            000440C                    05 WS-RT-040-OVERFLOW     PIC X(15)
          VALUE "OVERFLOW       ".
            000441C                    05 WS-RT-041-INVLDC       PIC X(15)
          VALUE "INVLDC         ".
            000442C                    05 WS-RT-042-NOSTG        PIC X(15)
          VALUE "NOSTG          ".
            000443C                    05 WS-RT-043-JIDERR       PIC X(15)
          VALUE "JIDERR         ".
            000444C                    05 WS-RT-044-QIDERR       PIC X(15)
          VALUE "QIDERR         ".
            000445C                    05 WS-RT-045-NOJBUFSP     PIC X(15)
          VALUE "NOJBUFSP       ".
            000446C                    05 WS-RT-046-DSSTAT       PIC X(15)
          VALUE "DSSTAT         ".
            000447C                    05 WS-RT-047-SELNERR      PIC X(15)
          VALUE "SELNERR        ".
            000448C                    05 WS-RT-048-FUNCERR      PIC X(15)
          VALUE "FUNCERR        ".
            000449C                    05 WS-RT-049-UNEXPIN      PIC X(15)
          VALUE "UNEXPIN        ".
            000450C                    05 WS-RT-050-NOPASSBKRD   PIC X(15)
          VALUE "NOPASSBKRD     ".
            000451C                    05 WS-RT-051-NOPASSBKWR   PIC X(15)
          VALUE "NOPASSBKWR     ".
            000452C                    05 WS-RT-052-SEGIDERR     PIC X(15)
          VALUE "SEGIDERR       ".
            000453C                    05 WS-RT-053-SYSIDERR     PIC X(15)
          VALUE "SYSIDERR       ".
            000454C                    05 WS-RT-054-ISCINVREQ    PIC X(15)
          VALUE "ISCINVREQ      ".
            000455C                    05 WS-RT-055-ENQBUSY      PIC X(15)
          VALUE "ENQBUSY        ".
```

```
  000456C                        05 WS-RT-056-ENVDEFERR    PIC X(15)
VALUE "ENVDEFERR       ".
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000457C                        05 WS-RT-057-IGREQCD      PIC X(15)
VALUE "IGREQCD         ".
  000458C                        05 WS-RT-058-SESSIONERR   PIC X(15)
VALUE "SESSIONERR      ".
  000459C                        05 WS-RT-059-SYSBUSY      PIC X(15)
VALUE "SYSBUSY         ".
  000460C                        05 WS-RT-060-SESSBUSY     PIC X(15)
VALUE "SESSBUSY        ".
  000461C                        05 WS-RT-061-NOTALLOC     PIC X(15)
VALUE "NOTALLOC        ".
  000462C                        05 WS-RT-062-CBIDERR      PIC X(15)
VALUE "CBIDERR         ".
  000463C                        05 WS-RT-063-INVEXITREQ   PIC X(15)
VALUE "INVEXITREQ      ".
  000464C                        05 WS-RT-064-INVPARTNSET  PIC X(15)
VALUE "INVPARTNSET     ".
  000465C                        05 WS-RT-065-INVPARTN     PIC X(15)
VALUE "INVPARTN        ".
  000466C                        05 WS-RT-066-PARTNFAIL    PIC X(15)
VALUE "PARTNFAIL       ".
  000467C                        05 WS-RT-067-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
  000468C                        05 WS-RT-068-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
  000469C                        05 WS-RT-069-USERIDERR    PIC X(15)
VALUE "USERIDERR       ".
  000470C                        05 WS-RT-070-NOTAUTH      PIC X(15)
VALUE "NOTAUTH         ".
  000471C                        05 WS-RT-071-VOLIDERR     PIC X(15)
VALUE "VOLIDERR        ".
  000472C                        05 WS-RT-072-SUPPRESSED   PIC X(15)
VALUE "SUPPRESSED      ".
  000473C                        05 WS-RT-073-NOTUSED      PIC X(15)
```

```
VALUE "NOTUSED         ".
   000474C                      05 WS-RT-074-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
   000475C                      05 WS-RT-075-RESIDERR     PIC X(15)
VALUE "RESIDERR        ".
   000476C                      05 WS-RT-076-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
   000477C                      05 WS-RT-077-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
   000478C                      05 WS-RT-078-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
   000479C                      05 WS-RT-079-NOTUSED      PIC X(15)
VALUE "NOTUSED         ".
   000480C                      05 WS-RT-080-NOSPOOL      PIC X(15)
VALUE "NOSPOOL         ".
   000481C                      05 WS-RT-081-TERMERR      PIC X(15)
VALUE "TERMERR         ".
   000482C                      05 WS-RT-082-ROLLEDBACK   PIC X(15)
VALUE "ROLLEDBACK      ".
   000483C                      05 WS-RT-083-END          PIC X(15)
VALUE "END             ".
   000484C                      05 WS-RT-084-DISABLED     PIC X(15)
VALUE "DISABLED        ".
   000485C                      05 WS-RT-085-ALLOCERR     PIC X(15)
VALUE "ALLOCERR        ".
   000486C                      05 WS-RT-086-STRELERR     PIC X(15)
VALUE "STRELERR        ".
   000487C                      05 WS-RT-087-OPENERR      PIC X(15)
VALUE "OPENERR         ".
   000488C                      05 WS-RT-088-SPOLBUSY     PIC X(15)
VALUE "SPOLBUSY        ".
   000489C                      05 WS-RT-089-SPOLERR      PIC X(15)
VALUE "SPOLERR         ".
   000490C                      05 WS-RT-090-NODEIDERR    PIC X(15)
VALUE "NODEIDERR       ".
   000491C                      05 WS-RT-091-TASKIDERR    PIC X(15)
VALUE "TASKIDERR       ".
   000492C                      05 WS-RT-092-TCIDERR      PIC X(15)
VALUE "TCIDERR         ".
```

```
   000493C                        05 WS-RT-093-DSNNOTFOUND  PIC X(15)
VALUE "DSNNOTFOUND     ".
   000494C                        05 WS-RT-094-LOADING      PIC X(15)
VALUE "LOADING         ".
   000495C                        05 WS-RT-095-MODELIDERR   PIC X(15)
VALUE "MODELIDERR      ".
   000496C                        05 WS-RT-096-OUTDESCRERR  PIC X(15)
VALUE "OUTDESCRERR     ".
   000497C                        05 WS-RT-097-PARTNERIDERR PIC X(15)
VALUE "PARTNERIDERR    ".
   000498C                        05 WS-RT-098-PROFILEIDERR PIC X(15)
VALUE "PROFILEIDERR    ".
   000499C                        05 WS-RT-099-NETNAMEIDERR PIC X(15)
VALUE "NETNAMEIDERR    ".
   000500C                        05 WS-RT-100-LOCKED       PIC X(15)
VALUE "LOCKED          ".
   000501C                        05 WS-RT-101-RECORDBUSY   PIC X(15)
VALUE "RECORDBUSY      ".
   000502C                        05 WS-RT-102-UOWNOTFOUND  PIC X(15)
VALUE "UOWNOTFOUND     ".
   000503C                        05 WS-RT-103-UOWLNOTFOUND PIC X(15)
VALUE "UOWLNOTFOUND    ".
   000504C                        05 WS-RT-104-LINKABEND    PIC X(15)
VALUE "LINKABEND       ".
   000505C                        05 WS-RT-105-CHANGED      PIC X(15)
VALUE "CHANGED         ".
   000506C                        05 WS-RT-106-PROCESSBUSY  PIC X(15)
VALUE "PROCESSBUSY     ".
   000507C                        05 WS-RT-107-ACTIVITYBUSY PIC X(15)
VALUE "ACTIVITYBUSY    ".
   000508C                        05 WS-RT-108-PROCESSERR   PIC X(15)
VALUE "PROCESSERR      ".
   000509C                        05 WS-RT-109-ACTIVITYERR  PIC X(15)
VALUE "ACTIVITYERR     ".
   000510C                        05 WS-RT-110-CONTAINERERR PIC X(15)
VALUE "CONTAINERERR    ".
   000511C                        05 WS-RT-111-EVENTERR     PIC X(15)
VALUE "EVENTERR        ".
   000512C                        05 WS-RT-112-TOKENERR     PIC X(15)
```

```
VALUE "TOKENERR        ".
  000513C                      05 WS-RT-113-NOTFINISHED  PIC X(15)
VALUE "NOTFINISHED     ".
```
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
```
  000514C                      05 WS-RT-114-POOLERR      PIC X(15)
VALUE "POOLERR         ".
  000515C                      05 WS-RT-115-TIMERERR     PIC X(15)
VALUE "TIMERERR        ".
  000516C                      05 WS-RT-116-SYMBOLERR    PIC X(15)
VALUE "SYMBOLERR       ".
  000517C                      05 WS-RT-117-TEMPLATERR   PIC X(15)
VALUE "TEMPLATERR      ".
  000518C                      05 WS-RT-118-NOTSUPERUSER PIC X(15)
VALUE "NOTSUPERUSER    ".
  000519C                      05 WS-RT-119-CSDERR       PIC X(15)
VALUE "CSDERR          ".
  000520C                      05 WS-RT-120-DUPRES       PIC X(15)
VALUE "DUPRES          ".
  000521C                      05 WS-RT-121-RESUNAVAIL   PIC X(15)
VALUE "RESUNAVAIL      ".
  000522C                      05 WS-RT-122-CHANNELERR   PIC X(15)
VALUE "CHANNELERR      ".
  000523C                      05 WS-RT-123-CCSIDERR     PIC X(15)
VALUE "CCSIDERR        ".
  000524C                      05 WS-RT-124-TIMEDOUT     PIC X(15)
VALUE "TIMEDOUT        ".
  000525C                      05 WS-RT-125-CODEPAGEERR  PIC X(15)
VALUE "CODEPAGEERR     ".
  000526C                      05 WS-RT-126-INCOMPLETE   PIC X(15)
VALUE "INCOMPLETE      ".
  000527C                      05 WS-RT-127-APPNOTFOUND  PIC X(15)
VALUE "APPNOTFOUND     ".
  000528C               *
123456789012345
  000529C               *
  000530C               01 WS-RT-MSG-TABLE-DATA-R REDEFINES WS-RT-
```

```
MSG-TABLE-DATA.                 400
  000531C              05 WS-RT-MSG-NBR-TEXT     PIC X(15)
OCCURS 127 TIMES.
  000532C                   *
  000533C               01 WS-RT-RESP-NBR          PIC S9(8)
VALUE 0.
  000534C                   88 WS-RT-RESP-NBR-VALID-88 VALUE 1 THRU
127.
  000535C                   *
  000536C               01 WS-RT-RESP-NBR-INVALID-MSG PIC X(15)
VALUE "INVALIDNBR".
  000537C                   *
  000538C               01 WS-RT-MSG.
  000539C                   05 WS-RT-MSG-HDR         PIC X(15)
VALUE SPACES.              IMP
  000540C                   05 WS-RT-MSG-RESP-NBR    PIC S9(8)
VALUE 0.
  000541C                   05 WS-RT-MSG-T1          PIC X(15)
VALUE SPACES.              IMP
  000542C                   05 WS-RT-MSG-T2          PIC X(30)
VALUE SPACES.              IMP
  000543C                   *
  000544C               01 WS-RT-MSG-HEADER          PIC X(30)
VALUE SPACES.              IMP
  000545C                   *
  000546C               01 WS-RT-MSG-NORMAL          PIC X(30)
VALUE SPACES.              IMP
  000547C                   *
  000548C               01 WS-RT-MSG-OTHER           PIC X(30)
VALUE SPACES.              IMP
  000549C                   *
  000550C

****************************************************************
  000551C                   *
  000552                    *
  000553                    COPY MNTSF2A.
  000554C               01  MNT1F2AI.
  000555C                   02  FILLER PIC X(12).
  000556C                   02  TRANID1L    COMP  PIC  S9(4).
```

```
  000557C                          02  TRANID1F    PICTURE X.
  000558C                          02  FILLER REDEFINES TRANID1F.
557
  000559C                            03 TRANID1A    PICTURE X.
  000560C                          02  FILLER  PICTURE X(2).
  000561C                          02  TRANID1I  PIC X(4).
  000562C                          02  CUSTNO1L    COMP  PIC  S9(4).
  000563C                          02  CUSTNO1F    PICTURE X.
  000564C                          02  FILLER REDEFINES CUSTNO1F.
563
  000565C                            03 CUSTNO1A    PICTURE X.
  000566C                          02  FILLER  PICTURE X(2).
  000567C                          02  CUSTNO1I  PIC X(6).
  000568C                          02  ACTIONL    COMP  PIC  S9(4).
  000569C                          02  ACTIONF    PICTURE X.
  000570C                          02  FILLER REDEFINES ACTIONF.
569
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  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000571C                            03 ACTIONA    PICTURE X.
  000572C                          02  FILLER  PICTURE X(2).
  000573C                          02  ACTIONI  PIC X(1).
  000574C                          02  MSG1L    COMP  PIC  S9(4).
  000575C                          02  MSG1F    PICTURE X.
  000576C                          02  FILLER REDEFINES MSG1F.
575
  000577C                            03 MSG1A    PICTURE X.
  000578C                          02  FILLER  PICTURE X(2).
  000579C                          02  MSG1I  PIC X(79).
  000580C                          02  DUMMY1L    COMP  PIC  S9(4).
  000581C                          02  DUMMY1F    PICTURE X.
  000582C                          02  FILLER REDEFINES DUMMY1F.
581
  000583C                            03 DUMMY1A    PICTURE X.
  000584C                          02  FILLER  PICTURE X(2).
  000585C                          02  DUMMY1I  PIC X(1).
  000586C                      01  MNT1F2AO REDEFINES MNT1F2AI.
```

```
554
  000587C                      02  FILLER PIC X(12).
  000588C                      02  FILLER PICTURE X(3).
  000589C                      02  TRANID1C    PICTURE X.
  000590C                      02  TRANID1H    PICTURE X.
  000591C                      02  TRANID1O  PIC X(4).
  000592C                      02  FILLER PICTURE X(3).
  000593C                      02  CUSTNO1C    PICTURE X.
  000594C                      02  CUSTNO1H    PICTURE X.
  000595C                      02  CUSTNO1O  PIC X(6).
  000596C                      02  FILLER PICTURE X(3).
  000597C                      02  ACTIONC    PICTURE X.
  000598C                      02  ACTIONH    PICTURE X.
  000599C                      02  ACTIONO  PIC X(1).
  000600C                      02  FILLER PICTURE X(3).
  000601C                      02  MSG1C    PICTURE X.
  000602C                      02  MSG1H    PICTURE X.
  000603C                      02  MSG1O  PIC X(79).
  000604C                      02  FILLER PICTURE X(3).
  000605C                      02  DUMMY1C    PICTURE X.
  000606C                      02  DUMMY1H    PICTURE X.
  000607C                      02  DUMMY1O  PIC X(1).
  000608C              01  MNT2F2AI.
  000609C                      02  FILLER PIC X(12).
  000610C                      02  TRANID2L    COMP  PIC  S9(4).
  000611C                      02  TRANID2F    PICTURE X.
  000612C                      02  FILLER REDEFINES TRANID2F.
611
  000613C                        03 TRANID2A    PICTURE X.
  000614C                      02  FILLER  PICTURE X(2).
  000615C                      02  TRANID2I  PIC X(4).
  000616C                      02  INSTR2L    COMP  PIC  S9(4).
  000617C                      02  INSTR2F    PICTURE X.
  000618C                      02  FILLER REDEFINES INSTR2F.
617
  000619C                        03 INSTR2A    PICTURE X.
  000620C                      02  FILLER  PICTURE X(2).
  000621C                      02  INSTR2I  PIC X(79).
  000622C                      02  CUSTNO2L    COMP  PIC  S9(4).
```

```
  000623C                        02  CUSTNO2F    PICTURE X.
  000624C                        02  FILLER REDEFINES CUSTNO2F.
623
  000625C                          03 CUSTNO2A    PICTURE X.
  000626C                        02  FILLER  PICTURE X(2).
  000627C                        02  CUSTNO2I  PIC X(6).
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  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
  000628C                        02  LNAMEL    COMP  PIC  S9(4).
  000629C                        02  LNAMEF    PICTURE X.
  000630C                        02  FILLER REDEFINES LNAMEF.
629
  000631C                          03 LNAMEA    PICTURE X.
  000632C                        02  FILLER  PICTURE X(2).
  000633C                        02  LNAMEI  PIC X(30).
  000634C                        02  FNAMEL    COMP  PIC  S9(4).
  000635C                        02  FNAMEF    PICTURE X.
  000636C                        02  FILLER REDEFINES FNAMEF.
635
  000637C                          03 FNAMEA    PICTURE X.
  000638C                        02  FILLER  PICTURE X(2).
  000639C                        02  FNAMEI  PIC X(20).
  000640C                        02  ADDRL     COMP  PIC  S9(4).
  000641C                        02  ADDRF     PICTURE X.
  000642C                        02  FILLER REDEFINES ADDRF.
641
  000643C                          03 ADDRA    PICTURE X.
  000644C                        02  FILLER  PICTURE X(2).
  000645C                        02  ADDRI  PIC X(30).
  000646C                        02  CITYL     COMP  PIC  S9(4).
  000647C                        02  CITYF     PICTURE X.
  000648C                        02  FILLER REDEFINES CITYF.
647
  000649C                          03 CITYA    PICTURE X.
  000650C                        02  FILLER  PICTURE X(2).
  000651C                        02  CITYI  PIC X(20).
  000652C                        02  STATEL    COMP  PIC  S9(4).
```

```
  000653C                       02  STATEF    PICTURE X.
  000654C                       02  FILLER REDEFINES STATEF.
653
  000655C                          03 STATEA    PICTURE X.
  000656C                       02  FILLER  PICTURE X(2).
  000657C                       02  STATEI  PIC X(2).
  000658C                       02  ZIPCODEL   COMP  PIC  S9(4).
  000659C                       02  ZIPCODEF    PICTURE X.
  000660C                       02  FILLER REDEFINES ZIPCODEF.
659
  000661C                          03 ZIPCODEA    PICTURE X.
  000662C                       02  FILLER  PICTURE X(2).
  000663C                       02  ZIPCODEI  PIC X(10).
  000664C                       02  MSG2L    COMP  PIC  S9(4).
  000665C                       02  MSG2F    PICTURE X.
  000666C                       02  FILLER REDEFINES MSG2F.
665
  000667C                          03 MSG2A    PICTURE X.
  000668C                       02  FILLER  PICTURE X(2).
  000669C                       02  MSG2I  PIC X(79).
  000670C                       02  DUMMY2L    COMP  PIC  S9(4).
  000671C                       02  DUMMY2F    PICTURE X.
  000672C                       02  FILLER REDEFINES DUMMY2F.
671
  000673C                          03 DUMMY2A    PICTURE X.
  000674C                       02  FILLER  PICTURE X(2).
  000675C                       02  DUMMY2I  PIC X(1).
  000676C               01  MNT2F2AO REDEFINES MNT2F2AI.
608
  000677C                       02  FILLER PIC X(12).
  000678C                       02  FILLER PICTURE X(3).
  000679C                       02  TRANID2C    PICTURE X.
  000680C                       02  TRANID2H    PICTURE X.
  000681C                       02  TRANID2O  PIC X(4).
  000682C                       02  FILLER PICTURE X(3).
  000683C                       02  INSTR2C    PICTURE X.
  000684C                       02  INSTR2H    PICTURE X.
```

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   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   000685C                      02  INSTR2O  PIC X(79).
   000686C                      02  FILLER PICTURE X(3).
   000687C                      02  CUSTNO2C    PICTURE X.
   000688C                      02  CUSTNO2H    PICTURE X.
   000689C                      02  CUSTNO2O  PIC X(6).
   000690C                      02  FILLER PICTURE X(3).
   000691C                      02  LNAMEC     PICTURE X.
   000692C                      02  LNAMEH     PICTURE X.
   000693C                      02  LNAMEO  PIC X(30).
   000694C                      02  FILLER PICTURE X(3).
   000695C                      02  FNAMEC     PICTURE X.
   000696C                      02  FNAMEH     PICTURE X.
   000697C                      02  FNAMEO  PIC X(20).
   000698C                      02  FILLER PICTURE X(3).
   000699C                      02  ADDRC     PICTURE X.
   000700C                      02  ADDRH     PICTURE X.
   000701C                      02  ADDRO  PIC X(30).
   000702C                      02  FILLER PICTURE X(3).
   000703C                      02  CITYC     PICTURE X.
   000704C                      02  CITYH     PICTURE X.
   000705C                      02  CITYO  PIC X(20).
   000706C                      02  FILLER PICTURE X(3).
   000707C                      02  STATEC     PICTURE X.
   000708C                      02  STATEH     PICTURE X.
   000709C                      02  STATEO  PIC X(2).
   000710C                      02  FILLER PICTURE X(3).
   000711C                      02  ZIPCODEC    PICTURE X.
   000712C                      02  ZIPCODEH    PICTURE X.
   000713C                      02  ZIPCODEO  PIC X(10).
   000714C                      02  FILLER PICTURE X(3).
   000715C                      02  MSG2C     PICTURE X.
   000716C                      02  MSG2H     PICTURE X.
   000717C                      02  MSG2O  PIC X(79).
   000718C                      02  FILLER PICTURE X(3).
   000719C                      02  DUMMY2C    PICTURE X.
   000720C                      02  DUMMY2H    PICTURE X.
   000721C                      02  DUMMY2O  PIC X(1).
```

```
   000722                        *
   000723

**********************************************************************
   000724                        * ADD WORKING_STORAGE COPY STATEMENTS HERE
   000725
   000726                         COPY CMFWSSTS.
   000727C                       *
   000728C                       * CMF VSAM FILE STATUS WORKING_STORAGE
VARIABLES
   000729C                       *
   000730C                        01 WS-CMF-FILE-STATUS-INFO.
   000731C                           05 WS-CMF-OPEN                     PIC
X.
   000732C                              88 WS-CMF-OPEN-88
VALUE 'Y'.
   000733C                              88 WS-CMF-CLOSED-88
VALUE 'Y'.
   000734C                           05 WS-CMF-OPEN-STATUS             PIC
S9(8) COMP VALUE 0.
   000735C                           05 WS-CMF-ENABLE-STATUS           PIC
S9(8) COMP VALUE 0.
   000736C                       *
   000737                        *
   000738                         COPY CMFWSREC.
   000739C                       *
   000740C                        01 WS-CUSTOMER-MASTER-RECORD.
   000741C                           05 WS-CM-KEY.
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   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   000742C                           10 WS-CM-CUSTOMER-NUMBER      PIC
X(6).
   000743C                           05 WS-CM-FIRST-NAME               PIC
X(20).
   000744C                           05 WS-CM-LAST-NAME                PIC
X(30).
   000745C                           05 WS-CM-ADDRESS                  PIC
X(30).
```

```
  000746C                       05 WS-CM-CITY                        PIC
X(20).
  000747C                       05 WS-CM-STATE                       PIC
X(2).
  000748C                       05 WS-CM-ZIP-CODE                    PIC
X(10).
  000749C              *
  000750               *
  000751
****************************************************************
  000752               *
  000753                LINKAGE SECTION.
  000754               *
  000755                01 DFHCOMMAREA                    PIC
X(119).
  000756               *
  000757                PROCEDURE DIVISION.
755
  000758               *
  000759                0000-PROCESS-CUSTOMER-MAINT.
  000760               *
  000761                    MOVE SPACES                   TO WS-
HA-EXEC-TEXT.               IMP 372
  000762                    MOVE ALL '*'                  TO WS-
HA-EXEC-TEXT-T1.            373
  000763                    MOVE WS-HA-UNEXPECTED-ABEND   TO WS-
HA-EXEC-TEXT-T2.            366 374
  000764                    MOVE ALL '*'                  TO WS-
HA-EXEC-TEXT-T8.            380
  000765               *
  000766                    EXEC CICS
  000767                        HANDLE ABEND LABEL(9900-HANDLE-
ABEND)
  000768                    END-EXEC.
EXT IMP
  000769               *
  000770                    IF EIBCALEN > ZERO
IMP IMP
  000771        1             MOVE DFHCOMMAREA            TO WS-
```

COMMUNICATION-AREA   755 14
```
  000772                      END-IF.
  000773              *
  000774                      EVALUATE TRUE
  000775              *
  000776                          WHEN EIBCALEN = ZERO
IMP IMP
  000777     1                        MOVE LOW-VALUE            TO
MNT1F2A0                         IMP 586
  000778     1                        MOVE -1                  TO
CUSTN01L                         562
  000779     1                        SET WS-SEND-ERASE-88     TO
TRUE                             46
  000780     1                        PERFORM 1500-SEND-KEY-MAP
1220
  000781     1                        SET WS-CA-PROCESS-KEY-MAP-88
16
  000782     1                          TO TRUE
  000783              *
  000784                          WHEN EIBAID = DFHCLEAR
IMP 256
  000785     1                        IF WS-CA-PROCESS-KEY-MAP-88
16
  000786     2                          MOVE LOW-VALUE       TO
MNT1F2A0                         IMP 586
  000787     2                          MOVE -1              TO
CUSTN01L                         562
  000788     2                          SET WS-SEND-ERASE-88 TO
TRUE                             46
  000789     2                          PERFORM 1500-SEND-KEY-MAP
1220
  000790     1                        ELSE
  000791     2                          MOVE LOW-VALUE       TO
MNT2F2A0                         IMP 676
  000792     2                          MOVE WS-CA-CUSTOMER-NUMBER
21
  000793     2                            TO CUSTN020
689
  000794     2                          EVALUATE TRUE
```

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```
  000795      2                                    WHEN WS-CA-PROCESS-ADD-
CUST-88                              17
  000796      3                                        MOVE WS-ADD  TO
INSTR20                                  60 685
  000797      2                                    WHEN WS-CA-PROCESS-CHG-
CUST-88                              18
  000798      3                                        MOVE WS-CHG  TO
INSTR20                                  66 685
```
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   LineID PL SL ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
```
  000799      2                                    WHEN WS-CA-PROCESS-DEL-
CUST-88                              19
  000800      3                                        MOVE WS-DEL  TO
INSTR20                                  72 685
  000801      2                              END-EVALUATE
  000802      2                              MOVE -1            TO
LNAMEL                        628
  000803      2                              SET WS-SEND-ERASE-88 TO
TRUE                             46
  000804      2                              PERFORM 1400-SEND-DATA-MAP
1145
  000805      1                        END-IF
  000806                  *
  000807                              WHEN EIBAID = DFHPA1 OR DFHPA2 OR
DFHPA3                 IMP 264 265 266
  000808      1                          CONTINUE
  000809                  *
  000810                              WHEN EIBAID = DFHPF3
IMP 269
  000811      1                          PERFORM 8200-CMF-CLOSE      *>
Close VSAM before exit          1780
  000812
  000813      1                          MOVE SPACES              TO WS-
HA-EXEC-TEXT                 IMP 372
  000814      1                          MOVE ALL '='             TO WS-
HA-EXEC-TEXT-T1              373
  000815      1                          MOVE 'ABEND DFHPF3'       TO WS-
```

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```
HA-EXEC-TEXT-T2                    374
  000816    1          MOVE 'EXEC CICS'        TO WS-
HA-EXEC-TEXT-T3                    375
  000817    1          MOVE 'XCTL PROGRAM'     TO WS-
HA-EXEC-TEXT-T4                    376
  000818    1          MOVE WS-MEN-PROGRAM-CNST TO WS-
33 377
  000819    1          MOVE SPACES             TO WS-
IMP 378
  000820    1          MOVE WS-RT-MSG-NBR-TEXT(WS-HA-
ERR-MSG-PGMIDERR)          531 384
  000821    1             TO WS-HA-EXEC-TEXT-T7
379
  000822    1          MOVE ALL '='            TO WS-
HA-EXEC-TEXT-T8                    380
  000823
  000824    1          EXEC CICS
  000825    1             XCTL PROGRAM(WS-MEN-
PROGRAM-CNST)
  000826    1                   RESP   (WS-RESPONSE-
CODE)
  000827    1                   RESP2  (WS-RESPONSE-
CODE2)
  000828    1          END-EXEC
EXT 53
  000829
  000830    1          IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)            52
  000831    2          EXEC CICS
  000832    2              RETURN
  000833    2          END-EXEC
EXT
  000834    1          ELSE
  000835    2             MOVE 'XCTL PROGRAM'  TO WS-
RT-MSG-HEADER                    544
  000836    2             MOVE 'ERROR DFHPF3 ' TO WS-
RT-MSG-NORMAL                    546
  000837    2             MOVE WS-MEN-PROGRAM-CNST
33
```

```
  000838      2                              TO WS-RT-MSG-OTHER
548
  000839      2                              PERFORM 9700-RESPTEXT
1660
  000840      1                    END-IF
  000841                   *
  000842                          WHEN EIBAID = DFHPF12
IMP 278
  000843      1                   IF WS-CA-PROCESS-KEY-MAP-88
16
  000844      2                      PERFORM 8200-CMF-CLOSE  *>
Close VSAM                      1780
  000845
  000846      2                      MOVE SPACES          TO WS-
HA-EXEC-TEXT                    IMP 372
  000847      2                      MOVE ALL '='         TO WS-
HA-EXEC-TEXT-T1                 373
  000848      2                      MOVE 'ABEND DFHPF12' TO WS-
HA-EXEC-TEXT-T2                 374
  000849      2                      MOVE 'EXEC CICS'     TO WS-
HA-EXEC-TEXT-T3                 375
  000850      2                      MOVE 'XCTL PROGRAM'  TO WS-
HA-EXEC-TEXT-T4                 376
  000851      2                      MOVE WS-MEN-PROGRAM-CNST
33
  000852      2                        TO WS-HA-EXEC-TEXT-T5
377
  000853      2                      MOVE SPACES          TO WS-
HA-EXEC-TEXT-T6                 IMP 378
  000854      2                      MOVE WS-RT-MSG-NBR-TEXT(WS-
HA-ERR-MSG-PGMIDERR)           531 384
  000855      2                        TO WS-HA-EXEC-TEXT-T7
379
```

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+----5----+----6----+----7-|--+----8 Map and Cross Reference

```
  000856      2                      MOVE ALL '='         TO WS-
HA-EXEC-TEXT-T8                    380
```

```
 000857
 000858     2                              EXEC CICS
 000859     2                                  XCTL PROGRAM(WS-MEN-
PROGRAM-CNST)
 000860     2                                       RESP   (WS-
RESPONSE-CODE)
 000861     2                                       RESP2  (WS-
RESPONSE-CODE2)
 000862     2                              END-EXEC
EXT 53
 000863
 000864     2                              IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)               52
 000865     3                                  EXEC CICS
 000866     3                                      RETURN
 000867     3                                  END-EXEC
EXT
 000868     2                              ELSE
 000869     3                                  MOVE 'XCTL PROGRAM'
 000870     3                                    TO WS-RT-MSG-HEADER
544
 000871     3                                  MOVE 'ERROR DFHPF12'
 000872     3                                    TO WS-RT-MSG-NORMAL
546
 000873     3                                  MOVE WS-MEN-PROGRAM-
CNST                          33
 000874     3                                    TO WS-RT-MSG-OTHER
548
 000875     3                                  PERFORM 9700-RESPTEXT
1660
 000876     2                              END-IF
 000877     1                          ELSE
 000878     2                              MOVE LOW-VALUE        TO
MNT1F2A0                      IMP 586
 000879     2                              MOVE -1               TO
CUSTNO1L                      562
 000880     2                              SET WS-SEND-ERASE-88 TO
TRUE                          46
 000881     2                              PERFORM 1500-SEND-KEY-MAP
```

```
1220
  000882     2                        SET WS-CA-PROCESS-KEY-
MAP-88                            16
  000883     2                            TO TRUE
  000884     1                    END-IF
  000885               *
  000886                        WHEN EIBAID = DFHENTER
IMP 255
  000887     1                    PERFORM 8100-CMF-OPEN      *>
Open VSAM                     1738
  000888     1                    EVALUATE TRUE
  000889     1                        WHEN WS-CA-PROCESS-KEY-
MAP-88                        16
  000890     2                            PERFORM 1000-PROCESS-
KEY-MAP                      975
  000891     1                        WHEN WS-CA-PROCESS-ADD-
CUST-88                       17
  000892     2                            PERFORM 2000-PROCESS-
ADD-CUSTOMER                 1329
  000893     1                        WHEN WS-CA-PROCESS-CHG-
CUST-88                       18
  000894     2                            PERFORM 3000-PROCESS-
CHANGE-CUSTOMER              1491
  000895     1                        WHEN WS-CA-PROCESS-DEL-
CUST-88                       19
  000896     2                            PERFORM 4000-PROCESS-
DELETE-CUSTOMER              1596
  000897     1                    END-EVALUATE
  000898     1                    PERFORM 8200-CMF-CLOSE
1780
  000899               *
  000900                        WHEN OTHER
  000901     1                    IF WS-CA-PROCESS-KEY-MAP-88
16
  000902     2                        MOVE LOW-VALUE        TO
MNT1F2A0                      IMP 586
  000903     2                        MOVE WS-KEY-UNASSIGNED
78
  000904     2                            TO MSG10
```

603
```
  000905      2                               MOVE -1                TO
CUSTNO1L                       562
  000906      2                               SET WS-SEND-DATAONLY-
ALARM-88                  49
  000907      2                                   TO TRUE
  000908      2                               PERFORM 1500-SEND-KEY-MAP
1220
  000909      1                     ELSE
  000910      2                         MOVE LOW-VALUE      TO
MNT2F2AO                  IMP 676
  000911      2                         MOVE WS-KEY-UNASSIGNED
78
  000912      2                           TO MSG20
717
```
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
```
  000913      2                               MOVE -1                TO
LNAMEL                         628
  000914      2                               SET WS-SEND-DATAONLY-
ALARM-88                  49
  000915      2                                   TO TRUE
  000916      2                               PERFORM 1400-SEND-DATA-MAP
1145
  000917      1                 END-IF
  000918                *
  000919                    END-EVALUATE.
  000920                *
  000921                    MOVE SPACES                        TO
WS-HA-EXEC-TEXT.              IMP 372
  000922                    MOVE ALL '='                       TO
WS-HA-EXEC-TEXT-T1.            373
  000923                    MOVE 'ABEND'                       TO
WS-HA-EXEC-TEXT-T2.            374
  000924                    MOVE 'EXEC CICS'                   TO
WS-HA-EXEC-TEXT-T3.            375
  000925                    MOVE 'INQUIRE TRANSACTION'         TO
```

```
WS-HA-EXEC-TEXT-T4.                376
  000926                 MOVE WS-MNT-TRANSID-CNST        TO
WS-HA-EXEC-TEXT-T5.                34 377
  000927                 MOVE SPACES                     TO
WS-HA-EXEC-TEXT-T6.                IMP 378
  000928
  000929                 MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
TRANSIDERR)                        531 385
  000930                   TO WS-HA-EXEC-TEXT-T7.
379
  000931                 MOVE ALL '='                    TO
WS-HA-EXEC-TEXT-T8.                380
  000932          *
  000933                 EXEC CICS
  000934                     INQUIRE TRANSACTION(WS-MNT-TRANSID-
CNST)
  000935                            RESP       (WS-RESPONSE-
CODE)
  000936                            RESP2      (WS-RESPONSE-
CODE2)
  000937                 END-EXEC.
EXT 53
  000938          *
  000939                 IF WS-RESPONSE-CODE = DFHRESP(NORMAL)
52
  000940      1             CONTINUE
  000941                 ELSE
  000942      1             MOVE 'INQUIRE TRANSACTION'     TO
WS-RT-MSG-HEADER                   544
  000943      1             MOVE 'ERROR            '       TO
WS-RT-MSG-NORMAL                   546
  000944      1             MOVE WS-MNT-TRANSID-CNST       TO
WS-RT-MSG-OTHER                    34 548
  000945      1             PERFORM 9700-RESPTEXT
1660
  000946                 END-IF.
  000947          *
  000948                 MOVE SPACES                     TO
WS-HA-EXEC-TEXT.                   IMP 372
```

```
  000949                           MOVE ALL '='                      TO
WS-HA-EXEC-TEXT-T1.            373
  000950                           MOVE 'ABEND'                      TO
WS-HA-EXEC-TEXT-T2.            374
  000951                           MOVE 'EXEC CICS'                  TO
WS-HA-EXEC-TEXT-T3.            375
  000952                           MOVE 'RETURN TRANSID'             TO
WS-HA-EXEC-TEXT-T4.            376
  000953                           MOVE WS-MNT-TRANSID-CNST          TO
WS-HA-EXEC-TEXT-T5.            34 377
  000954                           MOVE SPACES                       TO
WS-HA-EXEC-TEXT-T6.            IMP 378
  000955                           MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
TRANSIDERR)                    531 385
  000956                             TO WS-HA-EXEC-TEXT-T7.
379
  000957                           MOVE ALL '='                      TO
WS-HA-EXEC-TEXT-T8.            380
  000958              *
  000959                           EXEC CICS
  000960                               RETURN TRANSID (WS-MNT-TRANSID-
CNST)
  000961                                       COMMAREA(WS-COMMUNICATION-
AREA)
  000962                                       RESP    (WS-RESPONSE-CODE)
  000963                                       RESP2   (WS-RESPONSE-CODE2)
  000964                           END-EXEC.
EXT 53
  000965              *
  000966                           IF WS-RESPONSE-CODE = DFHRESP(NORMAL)
52
  000967      1                        CONTINUE
  000968                           ELSE
  000969      1                        MOVE 'RETURN TRANSID '        TO
WS-RT-MSG-HEADER              544
```

```
  000970      1                        MOVE 'ERROR              '          TO
WS-RT-MSG-NORMAL                        546
  000971      1                        MOVE WS-MNT-TRANSID-CNST          TO
WS-RT-MSG-OTHER                         34 548
  000972      1                        PERFORM 9700-RESPTEXT
1660
  000973                           END-IF.
  000974                    *
  000975                     1000-PROCESS-KEY-MAP.
  000976                    *
  000977                        PERFORM 1100-RECEIVE-KEY-MAP.
1002
  000978                        PERFORM 1200-EDIT-KEY-DATA.
1034
  000979                        IF WS-VALID-DATA-88
44
  000980      1                    IF NOT WS-CA-PROCESS-DEL-CUST-88
19
  000981      2                       INSPECT WS-CUSTOMER-MASTER-
RECORD                          740
  000982      2                          REPLACING ALL SPACE BY '_'
IMP
  000983      1                    END-IF
  000984      1                    MOVE CUSTNO1I                    TO
CUSTNO2O                        567 689
  000985      1                    MOVE WS-CM-LAST-NAME             TO
LNAMEO                          744 693
  000986      1                    MOVE WS-CM-FIRST-NAME            TO
FNAMEO                          743 697
  000987      1                    MOVE WS-CM-ADDRESS               TO
ADDRO                           745 701
  000988      1                    MOVE WS-CM-CITY                  TO
CITYO                           746 705
  000989      1                    MOVE WS-CM-STATE                 TO
STATEO                          747 709
  000990      1                    MOVE WS-CM-ZIP-CODE              TO
ZIPCODEO                        748 713
  000991      1                    MOVE -1                          TO
LNAMEL                          628
```

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```
  000992      1                     SET WS-SEND-ERASE-88           TO
TRUE                          46
  000993      1                     PERFORM 1400-SEND-DATA-MAP
1145
  000994                    ELSE
  000995      1                   MOVE LOW-VALUE                  TO
CUSTNO10                       IMP 595
  000996      1
ACTIONO                           599
  000997      1                   SET WS-SEND-DATAONLY-ALARM-88
49
  000998      1                        TO TRUE
  000999      1                   PERFORM 1500-SEND-KEY-MAP
1220
  001000                   END-IF.
  001001                 *
  001002                  1100-RECEIVE-KEY-MAP.
  001003                 *
  001004                   MOVE SPACES                           TO
WS-HA-EXEC-TEXT.               IMP 372
  001005                   MOVE ALL '='                          TO
WS-HA-EXEC-TEXT-T1.            373
  001006                   MOVE 'ABEND'                          TO
WS-HA-EXEC-TEXT-T2.            374
  001007                   MOVE 'EXEC CICS'                      TO
WS-HA-EXEC-TEXT-T3.            375
  001008                   MOVE 'RECEIVE MAP - MAPSET/MAP'       TO
WS-HA-EXEC-TEXT-T4.            376
  001009                   MOVE WS-MNT-MAPSET-CNST               TO
WS-HA-EXEC-TEXT-T5.            35 377
  001010                   MOVE WS-MNT-MAP1-CNST                 TO
WS-HA-EXEC-TEXT-T6.            36 378
  001011                   MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
MAPFAIL)                       531 386
  001012                     TO WS-HA-EXEC-TEXT-T7.
379
  001013                   MOVE ALL '='                          TO
WS-HA-EXEC-TEXT-T8.            380
  001014                 *
```

```
  001015                     EXEC CICS
  001016                         RECEIVE MAP   (WS-MNT-MAP1-CNST)
  001017                                 MAPSET(WS-MNT-MAPSET-CNST)
  001018                                 INTO  (MNT1F2AI)
  001019                                 RESP  (WS-RESPONSE-CODE)
  001020                                 RESP2 (WS-RESPONSE-CODE2)
  001021                     END-EXEC.
EXT 53
  001022              *
  001023                     IF WS-RESPONSE-CODE NOT =
DFHRESP(NORMAL)                         52
  001024      1              MOVE 'RECEIVE MAP - MAPSET/MAP'
  001025      1                TO WS-RT-MSG-HEADER
544
  001026      1              MOVE WS-MNT-MAP1-CNST        TO
WS-RT-MSG-NORMAL               36 546
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  001027      1              MOVE WS-MNT-MAPSET-CNST      TO
WS-RT-MSG-OTHER                35 548
  001028      1              PERFORM 9700-RESPTEXT
1660
  001029                     END-IF.
  001030              *
  001031                     INSPECT MNT1F2AI
554
  001032                        REPLACING ALL '_' BY SPACE.
IMP
  001033              *
  001034               1200-EDIT-KEY-DATA.
  001035              *
  001036                     MOVE ATTR-NO-HIGHLIGHT       TO
ACTIONH                   208 598
  001037
CUSTNO1H.                    594
  001038              *
  001039                     IF ACTIONI NOT = '1' AND '2' AND '3'
```

```
573
  001040      1                        MOVE ATTR-REVERSE              TO
ACTIONH                                   210 598
  001041      1                        MOVE -1                       TO
ACTIONL                                   568
  001042      1                        MOVE WS-ACTION-INVALID        TO
MSG10                                     84 603
  001043      1                        MOVE WS-FALSE-CNST            TO WS-
VALID-DATA-FLAG                           26 43
  001044                      END-IF.
  001045                *
  001046                IF      CUSTNO1L = ZERO
562 IMP
  001047                     OR CUSTNO1I = SPACE
567 IMP
  001048      1                        MOVE ATTR-REVERSE              TO
CUSTNO1H                                  210 594
  001049      1                        MOVE -1                       TO
CUSTNO1L                                  562
  001050      1                        MOVE WS-ENTER-CUST-NBR        TO
MSG10                                     90 603
  001051      1                        MOVE WS-FALSE-CNST            TO WS-
VALID-DATA-FLAG                           26 43
  001052                      END-IF.
  001053                *
  001054                IF WS-VALID-DATA-88
44
  001055      1                        MOVE LOW-VALUE                TO
MNT2F2AO                                  IMP 676
  001056      1                        EVALUATE ACTIONI
573
  001057      1                           WHEN '1'
  001058      2                              PERFORM 1300-READ-CUSTOMER-
RECORD                                    1114
  001059      2                                 IF WS-RESPONSE-CODE =
DFHRESP(NOTFND)                           52
  001060      3                                    MOVE WS-ADD       TO
INSTR20                                   60 685
  001061      3                                    SET WS-CA-PROCESS-ADD-
```

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```
CUST-88                                 17
   001062      3                                      TO TRUE
   001063      3                                  MOVE SPACE        TO WS-
CUSTOMER-MASTER-RECORD                IMP 740
   001064      2                            ELSE
   001065      3                                IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                    52
   001066      4                                    MOVE WS-CUST-EXISTS
96
   001067      4                                      TO MSG10
603
   001068      4                                    MOVE WS-FALSE-CNST
26
   001069      4                                      TO WS-VALID-DATA-
FLAG                              43
   001070      3                                END-IF
   001071      2                            END-IF
   001072
   001073      1                        WHEN '2'
   001074      2                            PERFORM 1300-READ-CUSTOMER-
RECORD                            1114
   001075      2                            IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                  52
   001076      3                                MOVE WS-CUSTOMER-
MASTER-RECORD                    740
   001077      3                                  TO WS-CA-CUSTOMER-
RECORD                          20
   001078      3                                MOVE WS-CHG       TO
INSTR20                          66 685
   001079      3                                SET WS-CA-PROCESS-CHG-
CUST-88                          18
   001080      3                                  TO TRUE
   001081      2                            ELSE
   001082      3                                IF WS-RESPONSE-CODE =
DFHRESP(NOTFND)                  52
   001083      4                                    MOVE WS-CUST-DOES-
NOT-EXIST                        102
```

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```
   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   001084      4                                        TO MSG10
603
   001085      4                                MOVE WS-FALSE-CNST
26
   001086      4                                    TO WS-VALID-DATA-
FLAG                                    43
   001087      3                        END-IF
   001088      2                      END-IF
   001089
   001090      1                    WHEN '3'
   001091      2                      PERFORM 1300-READ-CUSTOMER-
RECORD                                  1114
   001092      2                        IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                    52
   001093      3                          MOVE WS-CUSTOMER-
MASTER-RECORD                        740
   001094      3                            TO WS-CA-CUSTOMER-
RECORD                          20
   001095      3                          MOVE WS-DEL      TO
INSTR20                            72 685
   001096      3                          SET WS-CA-PROCESS-DEL-
CUST-88                          19
   001097      3                            TO TRUE
   001098      3                          MOVE ATTR-PROT   TO
LNAMEA                          195 631
   001099      3
FNAMEA                            637
   001100      3
ADDRA                             643
   001101      3
CITYA                             649
   001102      3
STATEA                            655
   001103      3
ZIPCODEA                          661
   001104      2                        ELSE
   001105      3                          IF WS-RESPONSE-CODE =
```

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```
DFHRESP(NOTFND)                        52
  001106      4                                      MOVE WS-CUST-DOES-
NOT-EXIST                        102
  001107      4                                          TO MSG10
603
  001108      4                                      MOVE WS-FALSE-CNST
26
  001109      4                                          TO WS-VALID-DATA-
FLAG                        43
  001110      3                            END-IF
  001111      2                          END-IF
  001112      1                        END-EVALUATE.
  001113                    *
  001114                     1300-READ-CUSTOMER-RECORD.
  001115                      PERFORM 8100-CMF-OPEN.
1738
  001116                      MOVE SPACES                        TO WS-
HA-EXEC-TEXT.              IMP 372
  001117                      MOVE ALL '='                       TO WS-
HA-EXEC-TEXT-T1.              373
  001118                      MOVE 'ABEND'                       TO WS-
HA-EXEC-TEXT-T2.              374
  001119                      MOVE 'READ FILE'
  001120                        TO WS-HA-EXEC-TEXT-T3.
375
  001121                      MOVE 'EXEC CICS READ FILE'
  001122                        TO WS-HA-EXEC-TEXT-T4.
376
  001123                      MOVE WS-CMF-FILE-NAME-CNST     TO WS-
HA-EXEC-TEXT-T5.              40 377
  001124                      MOVE SPACES                        TO WS-
HA-EXEC-TEXT-T6.              IMP 378
  001125                      MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)                531 383
  001126                        TO WS-HA-EXEC-TEXT-T7.
379
  001127                      MOVE ALL '='                       TO WS-
HA-EXEC-TEXT-T8.              380
  001128                    *
```

```
  001129                    EXEC CICS
  001130                        READ FILE  (WS-CMF-FILE-NAME-CNST)
  001131                            INTO  (WS-CUSTOMER-MASTER-
RECORD)
  001132                            RIDFLD(CUSTNO1I)
  001133                            RESP  (WS-RESPONSE-CODE)
  001134                            RESP2 (WS-RESPONSE-CODE2)
  001135                    END-EXEC.
EXT 53
  001136            *
  001137                    IF    WS-RESPONSE-CODE NOT =
DFHRESP(NORMAL)              52
  001138                      AND WS-RESPONSE-CODE NOT =
DFHRESP(NOTFND)             52
  001139      1               MOVE 'READ FILE     '      TO WS-
RT-MSG-HEADER             544
  001140      1               MOVE 'ERROR         '      TO WS-
RT-MSG-NORMAL             546
```

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+----5----+----6----+----7-|--+----8 Map and Cross Reference

```
  001141      1               MOVE WS-CMF-FILE-NAME-CNST   TO WS-
RT-MSG-OTHER              40 548
  001142      1               PERFORM 9700-RESPTEXT
1660
  001143                    END-IF.
  001144            *
  001145             1400-SEND-DATA-MAP.
  001146            *
  001147                    MOVE WS-MNT-TRANSID-CNST       TO
TRANID2O.                 34 681
  001148            *
  001149                    EVALUATE TRUE
  001150                        WHEN WS-SEND-ERASE-88
46
  001151      1               MOVE SPACES               TO WS-
HA-EXEC-TEXT              IMP 372
  001152      1                 MOVE ALL '='            TO WS-
```

```
HA-EXEC-TEXT-T1                    373
  001153      1               MOVE 'ABEND'              TO WS-
HA-EXEC-TEXT-T2                    374
  001154      1               MOVE 'EVALUATE WHEN WS-SEND-
ERASE-88'
  001155      1                  TO WS-HA-EXEC-TEXT-T3
375
  001156      1               MOVE 'EXEC CICS SEND MAP -
MAPSET/MAP'
  001157      1                  TO WS-HA-EXEC-TEXT-T4
376
  001158      1               MOVE WS-MNT-MAPSET-CNST  TO WS-
HA-EXEC-TEXT-T5                    35 377
  001159      1               MOVE WS-MNT-MAP2-CNST    TO WS-
HA-EXEC-TEXT-T6                    37 378
  001160      1               MOVE WS-RT-MSG-NBR-TEXT(WS-HA-
ERR-MSG-MAPFAIL)                  531 386
  001161      1                  TO WS-HA-EXEC-TEXT-T7
379
  001162      1               MOVE ALL '='             TO WS-
HA-EXEC-TEXT-T8                    380
  001163                 *
  001164      1               EXEC CICS
  001165      1                  SEND MAP   (WS-MNT-MAP2-
CNST)
  001166      1                          MAPSET(WS-MNT-MAPSET-
CNST)
  001167      1                          FROM  (MNT2F2A0)
  001168      1                          ERASE
  001169      1                          CURSOR
  001170      1                          RESP  (WS-RESPONSE-
CODE)
  001171      1                          RESP2 (WS-RESPONSE-
CODE2)
  001172      1               END-EXEC
EXT 53
  001173                 *
  001174      1               IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                   52
```

```
 001175      2                        CONTINUE
 001176      1                     ELSE
 001177      2                        MOVE 'SEND MAP2     ' TO WS-
RT-MSG-HEADER                544
 001178      2                        MOVE 'ERROR        ' TO WS-
RT-MSG-NORMAL                546
 001179      2                        MOVE 'ERASE        ' TO WS-
RT-MSG-OTHER                 548
 001180      2                        PERFORM 9700-RESPTEXT
1660
 001181      1                     END-IF
 001182               *
 001183                         WHEN WS-SEND-DATAONLY-ALARM-88
49
 001184      1                     MOVE SPACES              TO WS-
HA-EXEC-TEXT              IMP 372
 001185      1                     MOVE ALL '='             TO WS-
HA-EXEC-TEXT-T1              373
 001186      1                     MOVE 'ABEND'             TO WS-
HA-EXEC-TEXT-T2              374
 001187      1                     MOVE 'EVALUATE WHEN WS-SEND-
DATAONLY-ALARM-88'
 001188      1                        TO WS-HA-EXEC-TEXT-T3
375
 001189      1                     MOVE 'EXEC CICS SEND MAP -
MAPSET/MAP'
 001190      1                        TO WS-HA-EXEC-TEXT-T4
376
 001191      1                     MOVE WS-MNT-MAPSET-CNST  TO WS-
HA-EXEC-TEXT-T5           35 377
 001192      1                     MOVE WS-MNT-MAP2-CNST    TO WS-
HA-EXEC-TEXT-T6           37 378
 001193      1                     MOVE WS-RT-MSG-NBR-TEXT(WS-HA-
ERR-MSG-MAPFAIL)          531 386
 001194      1                        TO WS-HA-EXEC-TEXT-T7
379
 001195      1                     MOVE ALL '='             TO WS-
HA-EXEC-TEXT-T8              380
 001196               *
```

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```
  001197      1                       EXEC CICS
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
  001198      1                       SEND MAP   (WS-MNT-MAP2-
CNST)
  001199      1                                MAPSET(WS-MNT-MAPSET-
CNST)
  001200      1                                  FROM  (MNT2F2A0)
  001201      1                                  DATAONLY
  001202      1                                  ALARM
  001203      1                                  CURSOR
  001204      1                                  RESP  (WS-RESPONSE-
CODE)
  001205      1                                  RESP2 (WS-RESPONSE-
CODE2)
  001206      1                       END-EXEC
EXT 53
  001207                  *
  001208      1                       IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)              52
  001209      2                         CONTINUE
  001210      1                       ELSE
  001211      2                         MOVE 'SEND MAP2    ' TO WS-
RT-MSG-HEADER              544
  001212      2                         MOVE 'ERROR       ' TO WS-
RT-MSG-NORMAL              546
  001213      2                         MOVE 'DATAONLY-ALARM'
  001214      2                           TO WS-RT-MSG-OTHER
548
  001215      2                         PERFORM 9700-RESPTEXT
1660
  001216      1                       END-IF
  001217                  *
  001218                    END-EVALUATE.
  001219                  *
  001220                   1500-SEND-KEY-MAP.
  001221                  *
```

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```
  001222                       MOVE WS-MNT-TRANSID-CNST         TO
TRANID10.                      34 591
  001223                   *
  001224                       EVALUATE TRUE
  001225                          WHEN WS-SEND-ERASE-88
46
  001226      1                      MOVE SPACES              TO WS-
HA-EXEC-TEXT                   IMP 372
  001227      1                      MOVE ALL '='            TO WS-
HA-EXEC-TEXT-T1                373
  001228      1                      MOVE 'ABEND'            TO WS-
HA-EXEC-TEXT-T2                374
  001229      1                      MOVE 'EVALUATE WHEN WS-SEND-
ERASE-88'
  001230      1                        TO WS-HA-EXEC-TEXT-T3
375
  001231      1                      MOVE 'EXEC CICS SEND MAP -
MAPSET/MAP'
  001232      1                        TO WS-HA-EXEC-TEXT-T4
376
  001233      1                      MOVE WS-MNT-MAPSET-CNST  TO WS-
HA-EXEC-TEXT-T5                35 377
  001234      1                      MOVE WS-MNT-MAP1-CNST    TO WS-
HA-EXEC-TEXT-T6                36 378
  001235      1                      MOVE WS-RT-MSG-NBR-TEXT(WS-HA-
ERR-MSG-MAPFAIL)                531 386
  001236      1                        TO WS-HA-EXEC-TEXT-T7
379
  001237      1                      MOVE ALL '='            TO WS-
HA-EXEC-TEXT-T8                380
  001238                   *
  001239      1                      EXEC CICS
  001240      1                          SEND MAP    (WS-MNT-MAP1-
CNST)
  001241      1                              MAPSET(WS-MNT-MAPSET-
CNST)
  001242      1                              FROM  (MNT1F2A0)
  001243      1                              ERASE
  001244      1                              CURSOR
```

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```
  001245      1                            RESP  (WS-RESPONSE-
CODE)
  001246      1                            RESP2 (WS-RESPONSE-
CODE2)
  001247      1                   END-EXEC
EXT 53
  001248                  *
  001249      1                   IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)              52
  001250      2                      CONTINUE
  001251      1                   ELSE
  001252      2                      MOVE 'SEND MAP1    ' TO WS-
RT-MSG-HEADER                 544
  001253      2                      MOVE 'ERROR       ' TO WS-
RT-MSG-NORMAL                 546
  001254      2                      MOVE 'ERASE       ' TO WS-
RT-MSG-OTHER                  548
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
  001255      2                      PERFORM 9700-RESPTEXT
1660
  001256      1                   END-IF
  001257                  *
  001258                         WHEN WS-SEND-ERASE-ALARM-88
47
  001259      1                      MOVE SPACES            TO WS-
HA-EXEC-TEXT              IMP 372
  001260      1                      MOVE ALL '='           TO WS-
HA-EXEC-TEXT-T1           373
  001261      1                      MOVE 'ABEND'           TO WS-
HA-EXEC-TEXT-T2           374
  001262      1                      MOVE 'EVALUATE WHEN WS-SEND-
ERASE-ALARM-88'
  001263      1                        TO WS-HA-EXEC-TEXT-T3
375
  001264      1                      MOVE 'EXEC CICS SEND MAP -
MAPSET/MAP'
```

```
  001265       1                         TO WS-HA-EXEC-TEXT-T4
376
  001266       1                   MOVE WS-MNT-MAPSET-CNST  TO WS-
HA-EXEC-TEXT-T5                   35 377
  001267       1                   MOVE WS-MNT-MAP1-CNST    TO WS-
HA-EXEC-TEXT-T6                   36 378
  001268       1                   MOVE WS-RT-MSG-NBR-TEXT(WS-HA-
ERR-MSG-MAPFAIL)                  531 386
  001269       1                         TO WS-HA-EXEC-TEXT-T7
379
  001270       1                   MOVE ALL '='            TO WS-
HA-EXEC-TEXT-T8                   380
  001271              *
  001272       1                   EXEC CICS
  001273       1                      SEND MAP   (WS-MNT-MAP1-
CNST)
  001274       1                               MAPSET(WS-MNT-MAPSET-
CNST)
  001275       1                               FROM  (MNT1F2A0)
  001276       1                               ERASE
  001277       1                               ALARM
  001278       1                               CURSOR
  001279       1                               RESP  (WS-RESPONSE-
CODE)
  001280       1                               RESP2 (WS-RESPONSE-
CODE2)
  001281       1                   END-EXEC
EXT 53
  001282              *
  001283       1                   IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                   52
  001284       2                      CONTINUE
  001285       1                   ELSE
  001286       2                      MOVE 'SEND MAP1     ' TO WS-
RT-MSG-HEADER                     544
  001287       2                      MOVE 'ERROR         ' TO WS-
RT-MSG-NORMAL                     546
  001288       2                      MOVE 'ERASE ALARM  ' TO WS-
RT-MSG-OTHER                      548
```

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```
  001289     2                        PERFORM 9700-RESPTEXT
1660
  001290     1                  END-IF
  001291                  *
  001292                  WHEN WS-SEND-DATAONLY-ALARM-88
49
  001293     1                MOVE SPACES              TO WS-
HA-EXEC-TEXT                    IMP 372
  001294     1                MOVE ALL '='             TO WS-
HA-EXEC-TEXT-T1                 373
  001295     1                MOVE 'ABEND'             TO WS-
HA-EXEC-TEXT-T2                 374
  001296     1                MOVE 'EVALUATE WHEN WS-SEND-
DATAONLY-ALARM-88'
  001297     1                    TO WS-HA-EXEC-TEXT-T3
375
  001298     1                MOVE 'EXEC CICS SEND MAP -
MAPSET/MAP'
  001299     1                    TO WS-HA-EXEC-TEXT-T4
376
  001300     1                MOVE WS-MNT-MAPSET-CNST  TO WS-
HA-EXEC-TEXT-T5                 35 377
  001301     1                MOVE WS-MNT-MAP1-CNST    TO WS-
HA-EXEC-TEXT-T6                 36 378
  001302     1                MOVE WS-RT-MSG-NBR-TEXT(WS-HA-
ERR-MSG-MAPFAIL)                 531 386
  001303     1                    TO WS-HA-EXEC-TEXT-T7
379
  001304     1                MOVE ALL '='             TO WS-
HA-EXEC-TEXT-T8                 380
  001305                  *
  001306     1                  EXEC CICS
  001307     1                    SEND MAP   (WS-MNT-MAP1-
CNST)
  001308     1                        MAPSET(WS-MNT-MAPSET-
CNST)
  001309     1                        FROM  (MNT1F2A0)
  001310     1                        DATAONLY
  001311     1                        ALARM
```

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```
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  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   001312     1                          CURSOR
   001313     1                          RESP  (WS-RESPONSE-
CODE)
   001314     1                          RESP2 (WS-RESPONSE-
CODE2)
   001315     1                 END-EXEC
EXT 53
   001316              *
   001317     1                 IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)              52
   001318     2                    CONTINUE
   001319     1                 ELSE
   001320     2                    MOVE 'SEND MAP1    ' TO WS-
RT-MSG-HEADER              544
   001321     2                    MOVE 'ERROR        ' TO WS-
RT-MSG-NORMAL              546
   001322     2                    MOVE 'DATAONLY ALARM'
   001323     2                      TO WS-RT-MSG-OTHER
548
   001324     2                    PERFORM 9700-RESPTEXT
1660
   001325     1                 END-IF
   001326              *
   001327                 END-EVALUATE.
   001328              *
   001329          2000-PROCESS-ADD-CUSTOMER.
   001330              *
   001331               PERFORM 2100-RECEIVE-DATA-MAP.
1361
   001332               PERFORM 2200-EDIT-CUSTOMER-DATA.
1397
   001333               IF WS-VALID-DATA-88
44
   001334     1             PERFORM 2300-WRITE-CUSTOMER-RECORD
1454
```

```
  001335     1                    IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                    52
  001336     2                       MOVE WS-CUST-ADDED      TO
MSG10                            108 603
  001337     2                       SET WS-SEND-ERASE-88     TO
TRUE                              46
  001338     1                    ELSE
  001339     2                       IF WS-RESPONSE-CODE =
DFHRESP(DUPREC)                      52
  001340     3                          MOVE WS-CUST-ADDED-BY-
ANOTHER                          114
  001341     3                             TO MSG10
603
  001342     3                          SET WS-SEND-ERASE-ALARM-88
47
  001343     3                             TO TRUE
  001344     2                       END-IF
  001345     1                    END-IF
  001346     1                    MOVE -1                      TO
CUSTNO1L                         562
  001347     1                    PERFORM 1500-SEND-KEY-MAP
1220
  001348     1                    SET WS-CA-PROCESS-KEY-MAP-88 TO
TRUE                              16
  001349                       ELSE
  001350     1                    MOVE LOW-VALUE               TO
LNAMEO                           IMP 693
  001351     1
FNAMEO                               697
  001352     1
ADDRO                                701
  001353     1
CITYO                                705
  001354     1
STATEO                               709
  001355     1
ZIPCODEO                             713
  001356     1                    SET WS-SEND-DATAONLY-ALARM-88
49
```

```
001357      1                        TO TRUE
001358      1                        PERFORM 1400-SEND-DATA-MAP
1145
001359                      END-IF.
001360              *
001361               2100-RECEIVE-DATA-MAP.
001362              *
001363                      MOVE SPACES                        TO WS-
HA-EXEC-TEXT.               IMP 372
001364                      MOVE ALL '='                       TO WS-
HA-EXEC-TEXT-T1.            373
001365                      MOVE 'ABEND'                       TO WS-
HA-EXEC-TEXT-T2.            374
001366                      MOVE 'RECEIVE DATA MAP'
001367                        TO WS-HA-EXEC-TEXT-T3.
375
001368                      MOVE 'EXEC CICS RECEIVE MAP - MAPSET/
MAP'
```

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+----5----+----6----+----7-|--+----8 Map and Cross Reference

```
001369                        TO WS-HA-EXEC-TEXT-T4.
376
001370                      MOVE WS-MNT-MAPSET-CNST        TO WS-
HA-EXEC-TEXT-T5.            35 377
001371                      MOVE WS-MNT-MAP2-CNST          TO WS-
HA-EXEC-TEXT-T6.            37 378
001372                      MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
MAPFAIL)                     531 386
001373                        TO WS-HA-EXEC-TEXT-T7.
379
001374                      MOVE ALL '='                       TO WS-
HA-EXEC-TEXT-T8.            380
001375              *
001376                      EXEC CICS
001377                        RECEIVE MAP   (WS-MNT-MAP2-CNST)
001378                                MAPSET(WS-MNT-MAPSET-CNST)
001379                                INTO  (MNT2F2AI)
```

```
  001380                                        RESP  (WS-RESPONSE-CODE)
  001381                                        RESP2 (WS-RESPONSE-CODE2)
  001382                          END-EXEC.
EXT 53
  001383                *
  001384                          IF WS-RESPONSE-CODE = DFHRESP(NORMAL)
52
  001385        1            CONTINUE
  001386                    ELSE
  001387        1           MOVE 'SEND MAP2    ' TO WS-RT-MSG-
HEADER                          544
  001388        1           MOVE 'ERROR        ' TO WS-RT-MSG-
NORMAL                          546
  001389        1           MOVE 'RECEIVE DATA MAP'
  001390        1             TO WS-RT-MSG-OTHER
548
  001391        1           PERFORM 9700-RESPTEXT
1660
  001392                    END-IF.
  001393                *
  001394                    INSPECT MNT2F2AI
608
  001395                        REPLACING ALL '_' BY SPACE.
IMP
  001396                *
  001397                 2200-EDIT-CUSTOMER-DATA.
  001398                *
  001399                    MOVE ATTR-NO-HIGHLIGHT           TO
ZIPCODEH                        208 712
  001400
STATEH                          708
  001401
CITYH                           704
  001402
ADDRH                           700
  001403
FNAMEH                          696
  001404
LNAMEH.                         692
```

```
   001405                          *
   001406                          IF      ZIPCODEI = SPACE
663 IMP
   001407                             OR ZIPCODEL = ZERO
658 IMP
   001408       1                     MOVE ATTR-REVERSE           TO
ZIPCODEH                      210 712
   001409       1                     MOVE -1                     TO
ZIPCODEL                      658
   001410       1                     MOVE WS-ENTER-ZIP-CODE      TO
MSG20                         144 717
   001411       1                     MOVE WS-FALSE-CNST          TO WS-
VALID-DATA-FLAG                  26 43
   001412                          END-IF.
   001413
   001414                          IF      STATEI = SPACE
657 IMP
   001415                             OR STATEL = ZERO
652 IMP
   001416       1                     MOVE ATTR-REVERSE           TO
STATEH                        210 708
   001417       1                     MOVE -1                     TO
STATEL                        652
   001418       1                     MOVE WS-ENTER-STATE         TO
MSG20                         150 717
   001419       1                     MOVE WS-FALSE-CNST          TO WS-
VALID-DATA-FLAG                  26 43
   001420                          END-IF.
   001421
   001422                          IF      CITYI = SPACE
651 IMP
   001423                             OR CITYL = ZERO
646 IMP
   001424       1                     MOVE ATTR-REVERSE           TO
CITYH                         210 704
   001425       1                     MOVE -1                     TO
CITYL                         646
```

```
   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   001426      1                    MOVE WS-ENTER-CITY          TO
MSG20                             156 717
   001427      1                    MOVE WS-FALSE-CNST          TO WS-
VALID-DATA-FLAG                   26 43
   001428                    END-IF.
   001429
   001430                    IF      ADDRI = SPACE
645 IMP
   001431                       OR ADDRL = ZERO
640 IMP
   001432      1                    MOVE ATTR-REVERSE           TO
ADDRH                             210 700
   001433      1                    MOVE -1                     TO
ADDRL                             640
   001434      1                    MOVE WS-ENTER-ADDRESS       TO
MSG20                             162 717
   001435      1                    MOVE WS-FALSE-CNST          TO WS-
VALID-DATA-FLAG                   26 43
   001436                    END-IF.
   001437
   001438                    IF      FNAMEI = SPACE
639 IMP
   001439                       OR FNAMEL = ZERO
634 IMP
   001440      1                    MOVE ATTR-REVERSE           TO
FNAMEH                            210 696
   001441      1                    MOVE -1                     TO
FNAMEL                            634
   001442      1                    MOVE WS-ENTER-FIRST-NAME    TO
MSG20                             168 717
   001443      1                    MOVE WS-FALSE-CNST          TO WS-
VALID-DATA-FLAG                   26 43
   001444                    END-IF.
   001445
   001446                    IF      LNAMEI = SPACE
633 IMP
   001447                       OR LNAMEL = ZERO
```

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```
628 IMP
   001448      1                     MOVE ATTR-REVERSE            TO
LNAMEH                          210 692
   001449      1                     MOVE -1                      TO
LNAMEL                          628
   001450      1                     MOVE WS-ENTER-LAST-NAME      TO
MSG20                           174 717
   001451      1                     MOVE WS-FALSE-CNST           TO WS-
VALID-DATA-FLAG                 26 43
   001452                        END-IF.
   001453              *
   001454              2300-WRITE-CUSTOMER-RECORD.
   001455              *
   001456                  PERFORM 8100-CMF-OPEN.
1738
   001457                  MOVE CUSTNO2I                          TO WS-
CM-CUSTOMER-NUMBER.             627 742
   001458                  MOVE LNAMEI                            TO WS-
CM-LAST-NAME.                   633 744
   001459                  MOVE FNAMEI                            TO WS-
CM-FIRST-NAME.                  639 743
   001460                  MOVE ADDRI                             TO WS-
CM-ADDRESS.                     645 745
   001461                  MOVE CITYI                             TO WS-
CM-CITY.                        651 746
   001462                  MOVE STATEI                            TO WS-
CM-STATE.                       657 747
   001463                  MOVE ZIPCODEI                          TO WS-
CM-ZIP-CODE.                    663 748
   001464              *
   001465                  MOVE SPACES                            TO WS-
HA-EXEC-TEXT.                   IMP 372
   001466                  MOVE ALL '='                           TO WS-
HA-EXEC-TEXT-T1.                373
   001467                  MOVE 'ABEND'                           TO WS-
HA-EXEC-TEXT-T2.                374
   001468                  MOVE 'WRITE FILE'
   001469                    TO WS-HA-EXEC-TEXT-T3.
375
```

```
  001470                          MOVE 'EXEC CICS WRITE FILE'
  001471                            TO WS-HA-EXEC-TEXT-T4.
376
  001472                          MOVE WS-CMF-FILE-NAME-CNST      TO WS-
HA-EXEC-TEXT-T5.            40 377
  001473                          MOVE SPACES                     TO WS-
HA-EXEC-TEXT-T6.            IMP 378
  001474                          MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)                  531 383
  001475                            TO WS-HA-EXEC-TEXT-T7.
379
  001476                          MOVE ALL '='                   TO WS-
HA-EXEC-TEXT-T8.            380
  001477                *
  001478                          EXEC CICS
  001479                             WRITE FILE  (WS-CMF-FILE-NAME-CNST)
  001480                                  FROM   (WS-CUSTOMER-MASTER-
RECORD)
  001481                                  RIDFLD(WS-CM-CUSTOMER-NUMBER)
  001482                                  RESP   (WS-RESPONSE-CODE)
```
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
```
  001483                                  RESP2 (WS-RESPONSE-CODE2)
  001484                          END-EXEC.
EXT 53
  001485                *
  001486                          IF     WS-RESPONSE-CODE NOT =
DFHRESP(NORMAL)                     52
  001487                             AND WS-RESPONSE-CODE NOT =
DFHRESP(DUPREC)                     52
  001488        1                    PERFORM 9700-RESPTEXT
1660
  001489                          END-IF.
  001490                *
  001491                      3000-PROCESS-CHANGE-CUSTOMER.
  001492                *
  001493                          PERFORM 2100-RECEIVE-DATA-MAP.
```

```
1361
  001494                    PERFORM 2200-EDIT-CUSTOMER-DATA.
1397
  001495                    IF WS-VALID-DATA-88
44
  001496      1              MOVE CUSTNO2I                TO WS-
CM-CUSTOMER-NUMBER        627 742
  001497      1              PERFORM 3100-READ-CUSTOMER-FOR-
UPDATE                       1532
  001498      1              IF WS-RESPONSE-CODE =
DFHRESP(NORMAL)                  52
  001499      2                IF WS-CUSTOMER-MASTER-RECORD =
WS-CA-CUSTOMER-RECORD      740 20
  001500      3                  PERFORM 3200-REWRITE-
CUSTOMER-RECORD             1562
  001501      3                  MOVE WS-CUST-UPDATED TO
MSG10                      120 603
  001502      3                  SET WS-SEND-ERASE-88 TO
TRUE                         46
  001503      2                ELSE
  001504      3                  MOVE WS-CUST-UPDATED-BY-
ANOTHER                     126
  001505      3                    TO MSG10
603
  001506      3                  SET WS-SEND-ERASE-ALARM-88
47
  001507      3                    TO TRUE
  001508      2                END-IF
  001509      1              ELSE
  001510      2                IF WS-RESPONSE-CODE =
DFHRESP(NOTFND)                  52
  001511      3                  MOVE WS-CUST-DELETED-BY-
ANOTHER                     138
  001512      3                    TO MSG10
603
  001513      3                  SET WS-SEND-ERASE-ALARM-88
47
  001514      3                    TO TRUE
  001515      2                END-IF
```

```
001516      1                      END-IF
001517      1                      MOVE -1                        TO
CUSTNO1L                 562
001518      1                      PERFORM 1500-SEND-KEY-MAP
1220
001519      1                      SET WS-CA-PROCESS-KEY-MAP-88 TO
TRUE                     16
001520                    ELSE
001521      1                      MOVE LOW-VALUE                 TO
LNAMEO                   IMP 693
001522      1
FNAMEO                        697
001523      1
ADDRO                         701
001524      1
CITYO                         705
001525      1
STATEO                        709
001526      1
ZIPCODEO                      713
001527      1                      SET WS-SEND-DATAONLY-ALARM-88
49
001528      1                          TO TRUE
001529      1                      PERFORM 1400-SEND-DATA-MAP
1145
001530                    END-IF.
001531                 *
001532                  3100-READ-CUSTOMER-FOR-UPDATE.
001533                 *
001534                    PERFORM 8100-CMF-OPEN.
1738
001535                    MOVE SPACES                    TO WS-
HA-EXEC-TEXT.            IMP 372
001536                    MOVE ALL '='                   TO WS-
HA-EXEC-TEXT-T1.         373
001537                    MOVE 'ABEND'                   TO WS-
HA-EXEC-TEXT-T2.         374
001538                    MOVE 'READ FILE UPDATE'
001539                       TO WS-HA-EXEC-TEXT-T3.
```

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```
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CMMNTF2A  Date 11/22/2024  Time 15:30:21   Page    30
  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
  001540                     MOVE 'EXEC CICS READ FILE UPDATE'
  001541                        TO WS-HA-EXEC-TEXT-T4.
376
  001542                     MOVE WS-CMF-FILE-NAME-CNST       TO WS-
HA-EXEC-TEXT-T5.           40 377
  001543                     MOVE SPACES                      TO WS-
HA-EXEC-TEXT-T6.           IMP 378
  001544                     MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)              531 383
  001545                        TO WS-HA-EXEC-TEXT-T7.
379
  001546                     MOVE ALL '='                     TO WS-
HA-EXEC-TEXT-T8.           380
  001547                *
  001548                     EXEC CICS
  001549                        READ FILE  (WS-CMF-FILE-NAME-CNST)
  001550                             INTO  (WS-CUSTOMER-MASTER-
RECORD)
  001551                             RIDFLD(WS-CM-CUSTOMER-NUMBER)
  001552                             UPDATE
  001553                             RESP  (WS-RESPONSE-CODE)
  001554                             RESP2 (WS-RESPONSE-CODE2)
  001555                     END-EXEC.
EXT 53
  001556                *
  001557                     IF    WS-RESPONSE-CODE NOT =
DFHRESP(NORMAL)                   52
  001558                       AND WS-RESPONSE-CODE NOT =
DFHRESP(NOTFND)                   52
  001559      1                PERFORM 9700-RESPTEXT
1660
  001560                     END-IF.
  001561                *
  001562                  3200-REWRITE-CUSTOMER-RECORD.
```

```
  001563                      *
  001564                          PERFORM 8100-CMF-OPEN.
1738
  001565                          MOVE LNAMEI                        TO WS-
CM-LAST-NAME.                        633 744
  001566                          MOVE FNAMEI                        TO WS-
CM-FIRST-NAME.                       639 743
  001567                          MOVE ADDRI                         TO WS-
CM-ADDRESS.                          645 745
  001568                          MOVE CITYI                         TO WS-
CM-CITY.                             651 746
  001569                          MOVE STATEI                        TO WS-
CM-STATE.                            657 747
  001570                          MOVE ZIPCODEI                      TO WS-
CM-ZIP-CODE.                         663 748
  001571                      *
  001572                          MOVE SPACES                        TO WS-
HA-EXEC-TEXT.                        IMP 372
  001573                          MOVE ALL '='                       TO WS-
HA-EXEC-TEXT-T1.                     373
  001574                          MOVE 'ABEND'                       TO WS-
HA-EXEC-TEXT-T2.                     374
  001575                          MOVE 'REWRITE FILE'
  001576                            TO WS-HA-EXEC-TEXT-T3.
375
  001577                          MOVE 'EXEC CICS REWRITE FILE'
  001578                            TO WS-HA-EXEC-TEXT-T4.
376
  001579                          MOVE WS-CMF-FILE-NAME-CNST     TO WS-
HA-EXEC-TEXT-T5.                     40 377
  001580                          MOVE SPACES                        TO WS-
HA-EXEC-TEXT-T6.                     IMP 378
  001581                          MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)                        531 383
  001582                            TO WS-HA-EXEC-TEXT-T7.
379
  001583                          MOVE ALL '='                       TO WS-
HA-EXEC-TEXT-T8.                     380
  001584                      *
```

```
   001585                        EXEC CICS
   001586                            REWRITE FILE (WS-CMF-FILE-NAME-
CNST)
   001587                                  FROM (WS-CUSTOMER-MASTER-
RECORD)
   001588                                  RESP (WS-RESPONSE-CODE)
   001589                                  RESP2(WS-RESPONSE-CODE2)
   001590                        END-EXEC.
EXT 53
   001591                *
   001592                        IF WS-RESPONSE-CODE NOT =
DFHRESP(NORMAL)                            52
   001593     1                    PERFORM 9700-RESPTEXT
1660
   001594                        END-IF.
   001595                *
   001596                  4000-PROCESS-DELETE-CUSTOMER.
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   LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
   001597                *
   001598                        MOVE WS-CA-CUSTOMER-NUMBER      TO WS-
CM-CUSTOMER-NUMBER.          21 742
   001599                        PERFORM 3100-READ-CUSTOMER-FOR-UPDATE.
1532
   001600                        IF WS-RESPONSE-CODE = DFHRESP(NORMAL)
52
   001601     1                    IF WS-CUSTOMER-MASTER-RECORD = WS-
CA-CUSTOMER-RECORD          740 20
   001602     2                        PERFORM 4100-DELETE-CUSTOMER-
RECORD                        1623
   001603     2                        MOVE 'Customer deleted.' TO
MSG10                         603
   001604     2                        SET WS-SEND-ERASE-88      TO
TRUE                          46
   001605     1                    ELSE
   001606     2                        MOVE WS-CUST-UPDATED-BY-ANOTHER
126
```

```
  001607      2                            TO MSG10
603
  001608      2                            SET WS-SEND-ERASE-ALARM-88
47
  001609      2                                  TO TRUE
  001610      1                  END-IF
  001611                     ELSE
  001612      1                  IF WS-RESPONSE-CODE =
DFHRESP(NOTFND)                        52
  001613      2                        MOVE WS-CUST-DELETED-BY-ANOTHER
138
  001614      2                            TO MSG10
603
  001615      2                            SET WS-SEND-ERASE-ALARM-88
47
  001616      2                                  TO TRUE
  001617      1                  END-IF
  001618                     END-IF.
  001619                     MOVE -1                          TO
CUSTNO1L.                    562
  001620                     PERFORM 1500-SEND-KEY-MAP.
1220
  001621                     SET WS-CA-PROCESS-KEY-MAP-88     TO
TRUE.                        16
  001622                *
  001623                 4100-DELETE-CUSTOMER-RECORD.
  001624                *
  001625                     PERFORM 8100-CMF-OPEN.
1738
  001626
  001627                     MOVE SPACES                      TO WS-
HA-EXEC-TEXT.             IMP 372
  001628                     MOVE ALL '='                     TO WS-
HA-EXEC-TEXT-T1.             373
  001629                     MOVE 'ABEND'                     TO WS-
HA-EXEC-TEXT-T2.             374
  001630                     MOVE 'DELETE FILE'
  001631                         TO WS-HA-EXEC-TEXT-T3.
375
```

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```
  001632                          MOVE 'EXEC CICS DELETE FILE'
  001633                            TO WS-HA-EXEC-TEXT-T4.
376
  001634                          MOVE WS-CMF-FILE-NAME-CNST      TO WS-
HA-EXEC-TEXT-T5.              40 377
  001635                          MOVE SPACES                     TO WS-
HA-EXEC-TEXT-T6.              IMP 378
  001636                          MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)                 531 383
  001637                            TO WS-HA-EXEC-TEXT-T7.
379
  001638                          MOVE ALL '='                    TO WS-
HA-EXEC-TEXT-T8.              380
  001639              *
  001640                          EXEC CICS
  001641                            DELETE FILE (WS-CMF-FILE-NAME-CNST)
  001642                                   RESP (WS-RESPONSE-CODE)
  001643                                   RESP2(WS-RESPONSE-CODE2)
  001644                          END-EXEC.
EXT 53
  001645              *
  001646                          IF  WS-RESPONSE-CODE NOT =
DFHRESP(NORMAL)                           52
  001647      1                     PERFORM 9700-RESPTEXT
1660
  001648                          END-IF.
  001649              *
  001650
**********************************************************************
  001651                  * ADD PROCEDURE DIVISION COPY STATEMENTS
HERE
  001652
  001653                  *
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  LineID  PL SL  ----+-*A-1-B--+----2----+----3----+----4----
+----5----+----6----+----7-|--+----8 Map and Cross Reference
  001654
**********************************************************************
```

```
  001655                    *
  001656                     COPY RESPTEXT.
  001657C                   *
  001658C                   * ERROR HANDLING RESPONSE TEXT LOOKUP
PARAGRAPH
  001659C                   *
  001660C                    9700-RESPTEXT.
  001661C                   *
  001662C                        MOVE WS-RESPONSE-CODE           TO WS-
RT-RESP-NBR.                     52 533
  001663C                        MOVE SPACES                     TO WS-
RT-MSG.                          IMP 538
  001664C                        MOVE WS-RT-MSG-HEADER           TO WS-
RT-MSG-HDR                       544 539
  001665C                   *
  001666C                        IF WS-RESPONSE-CODE = DFHRESP(NORMAL)
52
  001667C      1                 MOVE WS-RT-MSG-NORMAL        TO WS-
RT-MSG-T1                        546 541
  001668C      1                 MOVE WS-RT-MSG-OTHER         TO WS-
RT-MSG-T2                        548 542
  001669C                     ELSE
  001670C      1                 IF WS-RT-RESP-NBR-VALID-88
534
  001671C      2                    MOVE WS-RT-MSG-NBR-TEXT(WS-RT-
RESP-NBR)                        531 533
  001672C      2                       TO WS-RT-MSG-T1
541
  001673C      2                    MOVE WS-RT-MSG-OTHER     TO WS-
RT-MSG-T2                        548 542
  001674C      1                 ELSE
  001675C      2                    MOVE WS-RT-RESP-NBR-INVALID-MSG
536
  001676C      2                       TO WS-RT-MSG-T1
541
  001677C      2                    MOVE WS-RT-MSG-OTHER     TO WS-
RT-MSG-T2                        548 542
  001678C      1                 END-IF
  001679C                   *
```

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```
   001680C      1                      MOVE EIBRESP              TO WS-
EM-RESP                        IMP 326
   001681C      1                      MOVE EIBRESP2             TO WS-
EM-RESP2                       IMP 331
   001682C      1                      MOVE EIBTRNID             TO WS-
EM-TRNID                       IMP 336
   001683C      1                      MOVE EIBRSRCE             TO WS-
EM-RSRCE                       IMP 341
   001684C               *
   001685C      1                      MOVE WS-RT-MSG            TO WS-
EM-MSG                         538 346
   001686C               *
   001687C      1                  EXEC CICS
   001688C      1                      SEND TEXT FROM(WS-EM-ERROR-
MESSAGE)
   001689C      1                           FREEKB
   001690C      1                           ERASE
   001691C      1                  END-EXEC
EXT
   001692C               *
   001693C      1                  STOP RUN
   001694C               *
   001695C                   END-IF.
   001696C               *
   001697                 *
   001698                  COPY TERMMSG.
   001699C               *
   001700C               * SEND TERMINATION MESSAGE PARAGRAPH
   001701C               *
   001702C                9800-SEND-TERMINATION-MESSAGE.
   001703C               *
   001704C                   EXEC CICS
   001705C                       SEND TEXT FROM(WS-END-OF-SESSION-
MESSAGE)
   001706C                           ERASE
   001707C                           FREEKB
   001708C                   END-EXEC.
EXT
   001709C               *
```

```
  001710C                     EXEC CICS
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
  001711C                     RETURN
  001712C                     END-EXEC.
EXT
  001713C               *
  001714                *
  001715                 COPY HDLABEND.
  001716C               *
  001717C               * HANDLE ABEND PARAGRAPH
  001718C               *
  001719C                9900-HANDLE-ABEND.
  001720C               *
  001721C                    MOVE WS-HA-EXEC-TEXT            TO WS-
HA-HANDLE-ABEND-MSG.          372 355
  001722C               *
  001723C                    EXEC CICS
  001724C                       SEND TEXT FROM(WS-HA-HANDLE-ABEND-
MSG)
  001725C                         FREEKB
  001726C                         ERASE
  001727C                    END-EXEC.
EXT
  001728C               *
  001729C                    EXEC CICS
  001730C                      RETURN
  001731C                    END-EXEC.
EXT
  001732C               *
  001733
  001734                 COPY CMFOPEN.
  001735C               *
  001736C               * CMF OPEN PARAGRAPH
  001737C               *
  001738C                8100-CMF-OPEN.
  001739C               *
```

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```
  001740C                   MOVE SPACES                              TO
WS-HA-EXEC-TEXT.              IMP 372
  001741C                   MOVE ALL '='                             TO
WS-HA-EXEC-TEXT-T1.              373
  001742C                   MOVE 'ABEND OPEN'                        TO
WS-HA-EXEC-TEXT-T2.              374
  001743C                   MOVE 'EXEC CICS'                         TO
WS-HA-EXEC-TEXT-T3.              375
  001744C                   MOVE 'INQUIRE FILE'                      TO
WS-HA-EXEC-TEXT-T4.              376
  001745C                   MOVE WS-CMF-FILE-NAME-CNST               TO
WS-HA-EXEC-TEXT-T5.              40 377
  001746C                   MOVE SPACES                              TO
WS-HA-EXEC-TEXT-T6.              IMP 378
  001747C                   MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)                    531 383
  001748C                     TO WS-HA-EXEC-TEXT-T7.
379
  001749C                   MOVE ALL '='                             TO
WS-HA-EXEC-TEXT-T8.              380
  001750C              *
  001751C                   EXEC CICS
  001752C                       INQUIRE FILE     (WS-CMF-FILE-NAME-
CNST)
  001753C                               OPENSTATUS  (WS-CMF-OPEN-
STATUS)
  001754C                               ENABLESTATUS(WS-CMF-ENABLE-
STATUS)
  001755C                               RESP        (WS-RESPONSE-CODE)
  001756C                               RESP2       (WS-RESPONSE-CODE2)
  001757C                   END-EXEC.
EXT 53
  001758C              *
  001759C                   IF WS-CMF-OPEN-STATUS =
DFHVALUE(CLOSED)                    734
  001760C     1             MOVE 'SET FILE OPEN'                     TO
WS-HA-EXEC-TEXT-T4              376
  001761C     1             MOVE WS-CMF-FILE-NAME-CNST               TO
WS-HA-EXEC-TEXT-T5              40 377
```

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```
   001762C      1                     EXEC CICS
   001763C      1                         SET FILE  (WS-CMF-FILE-NAME-
CNST) OPEN
   001764C      1                             RESP  (WS-RESPONSE-CODE)
   001765C      1                             RESP2 (WS-RESPONSE-CODE2)
   001766C      1                     END-EXEC
EXT 53
   001767C      1                     MOVE WS-OPEN-CNST              TO
WS-CMF-OPEN                      29 731
```
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+----5----+----6----+----7-|--+----8 Map and Cross Reference
```
   001768C      1               ELSE IF WS-CMF-OPEN-STATUS =
DFHVALUE(OPEN)                        734
   001769C      2                   NEXT SENTENCE
   001770C      1               ELSE
   001771C      2                   PERFORM 9700-RESPTEXT
1660
   001772C      1               END-IF
   001773C                   END-IF.
   001774C              *
   001775               *
   001776                COPY CMFCLOSE.
   001777C              *
   001778C              * CMF CLOSE PARAGRAPH
   001779C              *
   001780C               8200-CMF-CLOSE.
   001781C              *
   001782C                 MOVE SPACES                     TO
WS-HA-EXEC-TEXT.              IMP 372
   001783C                 MOVE ALL '='                    TO
WS-HA-EXEC-TEXT-T1.            373
   001784C                 MOVE 'ABEND CLOSE'              TO
WS-HA-EXEC-TEXT-T2.            374
   001785C                 MOVE 'EXEC CICS'               TO
WS-HA-EXEC-TEXT-T3.            375
   001786C                 MOVE 'INQUIRE FILE'            TO
WS-HA-EXEC-TEXT-T4.            376
```

```
  001787C                    MOVE WS-CMF-FILE-NAME-CNST       TO
WS-HA-EXEC-TEXT-T5.          40 377
  001788C                    MOVE SPACES                      TO
WS-HA-EXEC-TEXT-T6.          IMP 378
  001789C                    MOVE WS-RT-MSG-NBR-TEXT(WS-HA-ERR-MSG-
FILENOTFOUND)                531 383
  001790C                      TO WS-HA-EXEC-TEXT-T7.
379
  001791C                    MOVE ALL '='                     TO
WS-HA-EXEC-TEXT-T8.          380
  001792C             *
  001793C                    EXEC CICS
  001794C                       INQUIRE FILE    (WS-CMF-FILE-NAME-
CNST)
  001795C                               OPENSTATUS  (WS-CMF-OPEN-
STATUS)
  001796C                               ENABLESTATUS(WS-CMF-ENABLE-
STATUS)
  001797C                               RESP      (WS-RESPONSE-CODE)
  001798C                               RESP2     (WS-RESPONSE-CODE2)
  001799C                    END-EXEC.
EXT 53
  001800C             *
  001801C                    IF WS-RESPONSE-CODE = DFHRESP(NORMAL)
52
  001802C      1             IF WS-CMF-OPEN-STATUS =
DFHVALUE(OPEN)                    734
  001803C      2                MOVE 'SET FILE CLOSED'    TO
WS-HA-EXEC-TEXT-T4           376
  001804C      2                MOVE WS-CMF-FILE-NAME-CNST TO
WS-HA-EXEC-TEXT-T5           40 377
  001805C      2                EXEC CICS
  001806C      2                   SET FILE  (WS-CMF-FILE-
NAME-CNST) CLOSED
  001807C      2                           RESP  (WS-RESPONSE-
CODE)
  001808C      2                           RESP2 (WS-RESPONSE-
CODE2)
  001809C      2                   END-EXEC
```

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```
EXT 53
  001810C     2                        MOVE WS-CLOSED-CNST          TO
WS-CMF-OPEN                            30 731
  001811C     1                 END-IF
  001812C                   ELSE
  001813C     1                 PERFORM 9700-RESPTEXT
1660
  001814C                   END-IF.
  001815C             *
  001816              *
```
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An "M" preceding a data-name reference indicates that the data-name
is modified by this reference.

  Defined   Cross-reference of data names   References

     571   ACTIONA
     597   ACTIONC
     569   ACTIONF. 570
     598   ACTIONH. M1036 M1040
     573   ACTIONI. 1039 1056
     568   ACTIONL. M1041
     599   ACTIONO. M996
     643   ADDRA. M1100
     699   ADDRC
     641   ADDRF. 642
     700   ADDRH. M1402 M1432
     645   ADDRI. 1430 1460 1567
     640   ADDRL. 1431 M1433
     701   ADDRO. M987 M1352 M1523
     209   ATTR-BLINK
     214   ATTR-BLUE
     213   ATTR-DEFAULT-COLOR
     217   ATTR-GREEN
     220   ATTR-NEUTRAL
     208   ATTR-NO-HIGHLIGHT. 1036 1399
     216   ATTR-PINK
     195   ATTR-PROT. 1098

```
     197    ATTR-PROT-BRT
     198    ATTR-PROT-BRT-MDT
     199    ATTR-PROT-DARK
     200    ATTR-PROT-DARK-MDT
     196    ATTR-PROT-MDT
     201    ATTR-PROT-SKIP
     203    ATTR-PROT-SKIP-BRT
     204    ATTR-PROT-SKIP-BRT-MDT
     205    ATTR-PROT-SKIP-DARK
     206    ATTR-PROT-SKIP-DARK-MDT
     202    ATTR-PROT-SKIP-MDT
     215    ATTR-RED
     210    ATTR-REVERSE . . . . . . . . . 1040 1048 1408 1416 1424
1432 1440 1448
     218    ATTR-TURQUOISE
     211    ATTR-UNDERSCORE
     183    ATTR-UNPROT
     185    ATTR-UNPROT-BRT
     186    ATTR-UNPROT-BRT-MDT
     187    ATTR-UNPROT-DARK
     188    ATTR-UNPROT-DARK-MDT
     184    ATTR-UNPROT-MDT
     189    ATTR-UNPROT-NUM
     191    ATTR-UNPROT-NUM-BRT
     192    ATTR-UNPROT-NUM-BRT-MDT
     193    ATTR-UNPROT-NUM-DARK
     194    ATTR-UNPROT-NUM-DARK-MDT
     190    ATTR-UNPROT-NUM-MDT
     219    ATTR-YELLOW
     181    ATTRIBUTE-DEFINITIONS
     649    CITYA. . . . . . . . . . . . . M1101
     703    CITYC
     647    CITYF. . . . . . . . . . . . . 648
```

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```
     704    CITYH. . . . . . . . . . . . . M1401 M1424
     651    CITYI. . . . . . . . . . . . . 1422 1461 1568
```

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646     CITYL. . . . . . . . . . . . .   1423 M1425
705     CITYO. . . . . . . . . . . . .   M988 M1353 M1524
565     CUSTNO1A
593     CUSTNO1C
563     CUSTNO1F . . . . . . . . . . .   564
594     CUSTNO1H . . . . . . . . . . .   M1037 M1048
567     CUSTNO1I . . . . . . . . . . .   984 1047
562     CUSTNO1L . . . . . . . . . . .   M778 M787 M879 M905 1046
M1049 M1346 M1517 M1619
595     CUSTNO1O . . . . . . . . . . .   M995
625     CUSTNO2A
687     CUSTNO2C
623     CUSTNO2F . . . . . . . . . . .   624
688     CUSTNO2H
627     CUSTNO2I . . . . . . . . . . .   1457 1496
622     CUSTNO2L
689     CUSTNO2O . . . . . . . . . . .   M793 M984
253     DFHAID
256     DFHCLEAR . . . . . . . . . . .   784
257     DFHCLRP
755     DFHCOMMAREA. . . . . . . . . .   757 771
  0     DFHEIGDI . . . . . . . . . . .   768
255     DFHENTER . . . . . . . . . . .   886
261     DFHMSRE
254     DFHNULL
260     DFHOPID
264     DFHPA1 . . . . . . . . . . . .   807
265     DFHPA2 . . . . . . . . . . . .   807
266     DFHPA3 . . . . . . . . . . . .   807
259     DFHPEN
267     DFHPF1
276     DFHPF10
277     DFHPF11
278     DFHPF12. . . . . . . . . . . .   842
279     DFHPF13
280     DFHPF14
281     DFHPF15
282     DFHPF16
283     DFHPF17
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        284    DFHPF18
        285    DFHPF19
        268    DFHPF2
        286    DFHPF20
        287    DFHPF21
        288    DFHPF22
        290    DFHPF23
        291    DFHPF24
        269    DFHPF3 . . . . . . . . . . .  810
        270    DFHPF4
        271    DFHPF5
        272    DFHPF6
        273    DFHPF7
        274    DFHPF8
        275    DFHPF9
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        262    DFHSTRF
        263    DFHTRIG
        583    DUMMY1A
        605    DUMMY1C
        581    DUMMY1F. . . . . . . . . . .  582
        606    DUMMY1H
        585    DUMMY1I
        580    DUMMY1L
        607    DUMMY1O
        673    DUMMY2A
        719    DUMMY2C
        671    DUMMY2F. . . . . . . . . . .  672
        720    DUMMY2H
        675    DUMMY2I
        670    DUMMY2L
        721    DUMMY2O
          0    EIBAID . . . . . . . . . . .  784 807 810 842 886
          0    EIBCALEN . . . . . . . . . .  770 776
          0    EIBRESP. . . . . . . . . . .  1680
          0    EIBRESP2 . . . . . . . . . .  1681
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      0    EIBRSRCE . . . . . . . . . . .   1683
      0    EIBTRNID . . . . . . . . . . .   1682
    637    FNAMEA . . . . . . . . . . . .   M1099
    695    FNAMEC
    635    FNAMEF . . . . . . . . . . . .   636
    696    FNAMEH . . . . . . . . . . . .   M1403 M1440
    639    FNAMEI . . . . . . . . . . . .   1438 1459 1566
    634    FNAMEL . . . . . . . . . . . .   1439 M1441
    697    FNAMEO . . . . . . . . . . . .   M986 M1351 M1522
    619    INSTR2A
    683    INSTR2C
    617    INSTR2F. . . . . . . . . . . .   618
    684    INSTR2H
    621    INSTR2I
    616    INSTR2L
    685    INSTR2O. . . . . . . . . . . .   M796 M798 M800 M1060
M1078 M1095
    631    LNAMEA . . . . . . . . . . . .   M1098
    691    LNAMEC
    629    LNAMEF . . . . . . . . . . . .   630
    692    LNAMEH . . . . . . . . . . . .   M1404 M1448
    633    LNAMEI . . . . . . . . . . . .   1446 1458 1565
    628    LNAMEL . . . . . . . . . . . .   M802 M913 M991 1447
M1449
    693    LNAMEO . . . . . . . . . . . .   M985 M1350 M1521
    554    MNT1F2AI . . . . . . . . . . .   586 M1031
    586    MNT1F2AO . . . . . . . . . . .   M777 M786 M878 M902
    608    MNT2F2AI . . . . . . . . . . .   676 M1394
    676    MNT2F2AO . . . . . . . . . . .   M791 M910 M1055
    577    MSG1A
    601    MSG1C
    575    MSG1F. . . . . . . . . . . . .   576
    602    MSG1H
    579    MSG1I
    574    MSG1L
    603    MSG1O. . . . . . . . . . . . .   M904 M1042 M1050 M1067
M1084 M1107 M1336 M1341 M1501 M1505 M1512 M1603 M1607
                                    M1614
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```
     667    MSG2A
     715    MSG2C
     665    MSG2F. . . . . . . . . . . . . .  666
     716    MSG2H
     669    MSG2I
     664    MSG2L
     717    MSG2O. . . . . . . . . . . . . .  M912 M1410 M1418 M1426
M1434 M1442 M1450
     655    STATEA . . . . . . . . . . . . .  M1102
     707    STATEC
     653    STATEF . . . . . . . . . . . . .  654
     708    STATEH . . . . . . . . . . . . .  M1400 M1416
     657    STATEI . . . . . . . . . . . . .  1414 1462 1569
     652    STATEL . . . . . . . . . . . . .  1415 M1417
     709    STATEO . . . . . . . . . . . . .  M989 M1354 M1525
     559    TRANID1A
     589    TRANID1C
     557    TRANID1F . . . . . . . . . . . .  558
     590    TRANID1H
     561    TRANID1I
     556    TRANID1L
     591    TRANID1O . . . . . . . . . . . .  M1222
     613    TRANID2A
     679    TRANID2C
     611    TRANID2F . . . . . . . . . . . .  612
     680    TRANID2H
     615    TRANID2I
     610    TRANID2L
     681    TRANID2O . . . . . . . . . . . .  M1147
      84    WS-ACTION-INVALID. . . . . . .  1042
      60    WS-ADD . . . . . . . . . . . . .  796 1060
      15    WS-CA-CONTEXT-FLAG
      21    WS-CA-CUSTOMER-NUMBER. . . . .  792 1598
      20    WS-CA-CUSTOMER-RECORD. . . . .  M1077 M1094 1499 1601
      17    WS-CA-PROCESS-ADD-CUST-88. . .  795 891 M1061
      18    WS-CA-PROCESS-CHG-CUST-88. . .  797 893 M1079
```

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    19    WS-CA-PROCESS-DEL-CUST-88. . .    799 895 980 M1096
    16    WS-CA-PROCESS-KEY-MAP-88 . . .    M781 785 843 M882 889
901 M1348 M1519 M1621
    66    WS-CHG . . . . . . . . . . .      798 1078
    32    WS-CICS-CNSTS
    30    WS-CLOSED-CNST . . . . . . . .    1810
   745    WS-CM-ADDRESS. . . . . . . . .    987 M1460 M1567
   746    WS-CM-CITY . . . . . . . . . .    988 M1461 M1568
   742    WS-CM-CUSTOMER-NUMBER. . . . .    M1457 M1496 M1598
   743    WS-CM-FIRST-NAME . . . . . . .    986 M1459 M1566
   741    WS-CM-KEY
   744    WS-CM-LAST-NAME. . . . . . . .    985 M1458 M1565
   747    WS-CM-STATE. . . . . . . . . .    989 M1462 M1569
   748    WS-CM-ZIP-CODE . . . . . . . .    990 M1463 M1570
   733    WS-CMF-CLOSED-88
   735    WS-CMF-ENABLE-STATUS
    40    WS-CMF-FILE-NAME-CNST. . . . .    1123 1141 1472 1542 1579
1634 1745 1761 1787 1804
   730    WS-CMF-FILE-STATUS-INFO
   731    WS-CMF-OPEN. . . . . . . . . .    M1767 M1810
   734    WS-CMF-OPEN-STATUS . . . . . .    1759 1768 1802
   732    WS-CMF-OPEN-88
```

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```
    24    WS-CNSTS
    14    WS-COMMUNICATION-AREA. . . . .    M771
   108    WS-CUST-ADDED. . . . . . . . .    1336
   114    WS-CUST-ADDED-BY-ANOTHER . . .    1340
   132    WS-CUST-DELETED
   138    WS-CUST-DELETED-BY-ANOTHER . .    1511 1613
   102    WS-CUST-DOES-NOT-EXIST . . . .    1083 1106
    96    WS-CUST-EXISTS . . . . . . . .    1066
   120    WS-CUST-UPDATED. . . . . . . .    1501
   126    WS-CUST-UPDATED-BY-ANOTHER . .    1504 1606
   740    WS-CUSTOMER-MASTER-RECORD. . .    M981 M1063 1076 1093
1499 1601
    72    WS-DEL . . . . . . . . . . . .    800 1095
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```
    315    WS-EM-ERROR-LINE-1
    322    WS-EM-ERROR-LINE-2
    323    WS-EM-ERROR-LINE-3
    328    WS-EM-ERROR-LINE-4
    333    WS-EM-ERROR-LINE-5
    338    WS-EM-ERROR-LINE-6
    343    WS-EM-ERROR-LINE-7
    347    WS-EM-ERROR-LINE-8
    314    WS-EM-ERROR-MESSAGE
    346    WS-EM-MSG. . . . . . . . . . .   M1685
    326    WS-EM-RESP . . . . . . . . . .   M1680
    331    WS-EM-RESP2. . . . . . . . . .   M1681
    341    WS-EM-RSRCE. . . . . . . . . .   M1683
    336    WS-EM-TRNID. . . . . . . . . .   M1682
     55    WS-END-OF-SESSION-MESSAGE
    162    WS-ENTER-ADDRESS . . . . . . .   1434
    156    WS-ENTER-CITY. . . . . . . . .   1426
     90    WS-ENTER-CUST-NBR. . . . . . .   1050
    168    WS-ENTER-FIRST-NAME. . . . . .   1442
    174    WS-ENTER-LAST-NAME . . . . . .   1450
    150    WS-ENTER-STATE . . . . . . . .   1418
    144    WS-ENTER-ZIP-CODE. . . . . . .   1410
     26    WS-FALSE-CNST. . . . . . . . .   1043 1051 1068 1085 1108
1411 1419 1427 1435 1443 1451
     39    WS-FILE-CNSTS
     42    WS-FLAGS
    301    WS-GM-GENERAL-ERROR-MSG
    306    WS-GM-MSG
    302    WS-GM-RESP
    303    WS-GM-RESP2
    305    WS-GM-RSRCE
    304    WS-GM-TRNID
    383    WS-HA-ERR-MSG-FILENOTFOUND . .   1125 1474 1544 1581 1636
1747 1789
    386    WS-HA-ERR-MSG-MAPFAIL. . . . .   1011 1160 1193 1235 1268
1302 1372
    382    WS-HA-ERR-MSG-NBRS
    384    WS-HA-ERR-MSG-PGMIDERR . . . .   820 854
    385    WS-HA-ERR-MSG-TRANSIDERR . . .   929 955
```

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```
    372    WS-HA-EXEC-TEXT. . . . . . . .  M761 M813 M846 M921 M948
M1004 M1116 M1151 M1184 M1226 M1259 M1293 M1363 M1465
                                          M1535 M1572 M1627 1721
M1740 M1782
    373    WS-HA-EXEC-TEXT-T1 . . . . . .  M762 M814 M847 M922 M949
M1005 M1117 M1152 M1185 M1227 M1260 M1294 M1364 M1466
                                          M1536 M1573 M1628 M1741
M1783
    374    WS-HA-EXEC-TEXT-T2 . . . . . .  M763 M815 M848 M923 M950
M1006 M1118 M1153 M1186 M1228 M1261 M1295 M1365 M1467
                                          M1537 M1574 M1629 M1742
M1784
    375    WS-HA-EXEC-TEXT-T3 . . . . . .  M816 M849 M924 M951
M1007 M1120 M1155 M1188 M1230 M1263 M1297 M1367 M1469 M1539
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 Defined   Cross-reference of data names   References


                                          M1576 M1631 M1743 M1785
    376    WS-HA-EXEC-TEXT-T4 . . . . . .  M817 M850 M925 M952
M1008 M1122 M1157 M1190 M1232 M1265 M1299 M1369 M1471 M1541
                                          M1578 M1633 M1744 M1760
M1786 M1803
    377    WS-HA-EXEC-TEXT-T5 . . . . . .  M818 M852 M926 M953
M1009 M1123 M1158 M1191 M1233 M1266 M1300 M1370 M1472 M1542
                                          M1579 M1634 M1745 M1761
M1787 M1804
    378    WS-HA-EXEC-TEXT-T6 . . . . . .  M819 M853 M927 M954
M1010 M1124 M1159 M1192 M1234 M1267 M1301 M1371 M1473 M1543
                                          M1580 M1635 M1746 M1788
    379    WS-HA-EXEC-TEXT-T7 . . . . . .  M821 M855 M930 M956
M1012 M1126 M1161 M1194 M1236 M1269 M1303 M1373 M1475 M1545
                                          M1582 M1637 M1748 M1790
    380    WS-HA-EXEC-TEXT-T8 . . . . . .  M764 M822 M856 M931 M957
M1013 M1127 M1162 M1195 M1237 M1270 M1304 M1374 M1476
                                          M1546 M1583 M1638 M1749
M1791
    355    WS-HA-HANDLE-ABEND-MSG . . . .  M1721
    356    WS-HA-MSG-T1
```

```
       357    WS-HA-MSG-T2
       358    WS-HA-MSG-T3
       359    WS-HA-MSG-T4
       360    WS-HA-MSG-T5
       361    WS-HA-MSG-T6
       362    WS-HA-MSG-T7
       363    WS-HA-MSG-T8
       366    WS-HA-UNEXPECTED-ABEND . . . .  763
       369    WS-HA-UNHANDLED-ABEND
       365    WS-HANDLE-ABEND-MSGS
        78    WS-KEY-UNASSIGNED. . . . . . .  903 911
        33    WS-MEN-PROGRAM-CNST. . . . . .  818 837 851 873
        35    WS-MNT-MAPSET-CNST . . . . . .  1009 1027 1158 1191 1233
1266 1300 1370
        36    WS-MNT-MAP1-CNST . . . . . . .  1010 1026 1234 1267 1301
        37    WS-MNT-MAP2-CNST . . . . . . .  1159 1192 1371
        34    WS-MNT-TRANSID-CNST. . . . . .  926 944 953 971 1147
1222
        28    WS-NO-CNST
        29    WS-OPEN-CNST . . . . . . . . .  1767
        52    WS-RESPONSE-CODE . . . . . . .  830 864 939 966 1023
1059 1065 1075 1082 1092 1105 1137 1138 1174 1208 1249 1283
                                   1317 1335 1339 1384 1486
1487 1498 1510 1557 1558 1592 1600 1612 1646 1662 1666
                                   1801
        51    WS-RESPONSE-CODES
        53    WS-RESPONSE-CODE2. . . . . . .  M828 M862 M937 M964
M1021 M1135 M1172 M1206 M1247 M1281 M1315 M1382 M1484 M1555
                                   M1590 M1644 M1757 M1766
M1799 M1809
       538    WS-RT-MSG. . . . . . . . . . .  M1663 1685
       539    WS-RT-MSG-HDR. . . . . . . . .  M1664
       544    WS-RT-MSG-HEADER . . . . . . .  M835 M870 M942 M969
M1025 M1139 M1177 M1211 M1252 M1286 M1320 M1387 1664
       531    WS-RT-MSG-NBR-TEXT . . . . . .  820 854 929 955 1011
1125 1160 1193 1235 1268 1302 1372 1474 1544 1581 1636 1671
                                   1747 1789
       546    WS-RT-MSG-NORMAL . . . . . . .  M836 M872 M943 M970
M1026 M1140 M1178 M1212 M1253 M1287 M1321 M1388 1667
```

```
         548    WS-RT-MSG-OTHER. . . . . . . .  M838 M874 M944 M971
M1027 M1141 M1179 M1214 M1254 M1288 M1323 M1390 1668 1673
                                        1677
         540    WS-RT-MSG-RESP-NBR
         400    WS-RT-MSG-TABLE-DATA . . . . .  530
         530    WS-RT-MSG-TABLE-DATA-R
         541    WS-RT-MSG-T1 . . . . . . . . .  M1667 M1672 M1676
         542    WS-RT-MSG-T2 . . . . . . . . .  M1668 M1673 M1677
         533    WS-RT-RESP-NBR . . . . . . . .  M1662 1671
         536    WS-RT-RESP-NBR-INVALID-MSG . .  1675
         534    WS-RT-RESP-NBR-VALID-88. . . .  1670
         401    WS-RT-001-ERROR
         402    WS-RT-002-RDATT
```

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```
         403    WS-RT-003-WRBRK
         404    WS-RT-004-EOF
         405    WS-RT-005-EODS
         406    WS-RT-006-EOC
         407    WS-RT-007-INBFMH
         408    WS-RT-008-ENDINPT
         409    WS-RT-009-NONVAL
         410    WS-RT-010-NOSTART
         411    WS-RT-011-TERMIDERR
         412    WS-RT-012-FILENOTFOUND
         413    WS-RT-013-NOTFND
         414    WS-RT-014-DUPREC
         415    WS-RT-015-DUPKEY
         416    WS-RT-016-INVREQ
         417    WS-RT-017-IOERR
         418    WS-RT-018-NOSPACE
         419    WS-RT-019-NOTOPEN
         420    WS-RT-020-ENDFILE
         421    WS-RT-021-ILLOGIC
         422    WS-RT-022-LENGERR
         423    WS-RT-023-QZERO
         424    WS-RT-024-SIGNAL
```

```
425    WS-RT-025-QBUSY
426    WS-RT-026-ITEMERR
427    WS-RT-027-PGMIDERR
428    WS-RT-028-TRANSIDERR
429    WS-RT-029-ENDDATA
430    WS-RT-030-INVTSREQ
431    WS-RT-031-EXPIRED
432    WS-RT-032-RETPAGE
433    WS-RT-033-RTEFAIL
434    WS-RT-034-RTESOME
435    WS-RT-035-TSIOERR
436    WS-RT-036-MAPFAIL
437    WS-RT-037-INVERRTERM
438    WS-RT-038-INVMPSZ
439    WS-RT-039-IGREQID
440    WS-RT-040-OVERFLOW
441    WS-RT-041-INVLDC
442    WS-RT-042-NOSTG
443    WS-RT-043-JIDERR
444    WS-RT-044-QIDERR
445    WS-RT-045-NOJBUFSP
446    WS-RT-046-DSSTAT
447    WS-RT-047-SELNERR
448    WS-RT-048-FUNCERR
449    WS-RT-049-UNEXPIN
450    WS-RT-050-NOPASSBKRD
451    WS-RT-051-NOPASSBKWR
452    WS-RT-052-SEGIDERR
453    WS-RT-053-SYSIDERR
454    WS-RT-054-ISCINVREQ
455    WS-RT-055-ENQBUSY
456    WS-RT-056-ENVDEFERR
457    WS-RT-057-IGREQCD
```
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 Defined   Cross-reference of data names   References

```
458    WS-RT-058-SESSIONERR
459    WS-RT-059-SYSBUSY
```

```
460    WS-RT-060-SESSBUSY
461    WS-RT-061-NOTALLOC
462    WS-RT-062-CBIDERR
463    WS-RT-063-INVEXITREQ
464    WS-RT-064-INVPARTNSET
465    WS-RT-065-INVPARTN
466    WS-RT-066-PARTNFAIL
467    WS-RT-067-NOTUSED
468    WS-RT-068-NOTUSED
469    WS-RT-069-USERIDERR
470    WS-RT-070-NOTAUTH
471    WS-RT-071-VOLIDERR
472    WS-RT-072-SUPPRESSED
473    WS-RT-073-NOTUSED
474    WS-RT-074-NOTUSED
475    WS-RT-075-RESIDERR
476    WS-RT-076-NOTUSED
477    WS-RT-077-NOTUSED
478    WS-RT-078-NOTUSED
479    WS-RT-079-NOTUSED
480    WS-RT-080-NOSPOOL
481    WS-RT-081-TERMERR
482    WS-RT-082-ROLLEDBACK
483    WS-RT-083-END
484    WS-RT-084-DISABLED
485    WS-RT-085-ALLOCERR
486    WS-RT-086-STRELERR
487    WS-RT-087-OPENERR
488    WS-RT-088-SPOLBUSY
489    WS-RT-089-SPOLERR
490    WS-RT-090-NODEIDERR
491    WS-RT-091-TASKIDERR
492    WS-RT-092-TCIDERR
493    WS-RT-093-DSNNOTFOUND
494    WS-RT-094-LOADING
495    WS-RT-095-MODELIDERR
496    WS-RT-096-OUTDESCRERR
497    WS-RT-097-PARTNERIDERR
498    WS-RT-098-PROFILEIDERR
```

```
       499   WS-RT-099-NETNAMEIDERR
       500   WS-RT-100-LOCKED
       501   WS-RT-101-RECORDBUSY
       502   WS-RT-102-UOWNOTFOUND
       503   WS-RT-103-UOWLNOTFOUND
       504   WS-RT-104-LINKABEND
       505   WS-RT-105-CHANGED
       506   WS-RT-106-PROCESSBUSY
       507   WS-RT-107-ACTIVITYBUSY
       508   WS-RT-108-PROCESSERR
       509   WS-RT-109-ACTIVITYERR
       510   WS-RT-110-CONTAINERERR
       511   WS-RT-111-EVENTERR
       512   WS-RT-112-TOKENERR
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 Defined   Cross-reference of data names   References

       513   WS-RT-113-NOTFINISHED
       514   WS-RT-114-POOLERR
       515   WS-RT-115-TIMERERR
       516   WS-RT-116-SYMBOLERR
       517   WS-RT-117-TEMPLATERR
       518   WS-RT-118-NOTSUPERUSER
       519   WS-RT-119-CSDERR
       520   WS-RT-120-DUPRES
       521   WS-RT-121-RESUNAVAIL
       522   WS-RT-122-CHANNELERR
       523   WS-RT-123-CCSIDERR
       524   WS-RT-124-TIMEDOUT
       525   WS-RT-125-CODEPAGEERR
       526   WS-RT-126-INCOMPLETE
       527   WS-RT-127-APPNOTFOUND
        49   WS-SEND-DATAONLY-ALARM-88. . .   M906 M914 M997 1183 1292
M1356 M1527
        48   WS-SEND-DATAONLY-88
        47   WS-SEND-ERASE-ALARM-88 . . . .   1258 M1342 M1506 M1513
M1608 M1615
        46   WS-SEND-ERASE-88 . . . . . . .   M779 M788 M803 M880 M992
```

```
1150 1225 M1337 M1502 M1604
      45    WS-SEND-FLAG
      25    WS-TRUE-CNST
      58    WS-USER-MESSAGES
      43    WS-VALID-DATA-FLAG . . . . . .  M1043 M1051 M1069 M1086
M1109 M1411 M1419 M1427 M1435 M1443 M1451
      44    WS-VALID-DATA-88 . . . . . . .  979 1054 1333 1495
      27    WS-YES-CNST
     661    ZIPCODEA . . . . . . . . . . .  M1103
     711    ZIPCODEC
     659    ZIPCODEF . . . . . . . . . . .  660
     712    ZIPCODEH . . . . . . . . . . .  M1399 M1408
     663    ZIPCODEI . . . . . . . . . . .  1406 1463 1570
     658    ZIPCODEL . . . . . . . . . . .  1407 M1409
     713    ZIPCODEO . . . . . . . . . . .  M990 M1355 M1526
```

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Context usage is indicated by the letter preceding a procedure-name
reference.
These letters and their meanings are:
    A = ALTER (procedure-name)
    D = GO TO (procedure-name) DEPENDING ON
    E = End of range of (PERFORM) through (procedure-name)
    G = GO TO (procedure-name)
    P = PERFORM (procedure-name)
    T = (ALTER) TO PROCEED TO (procedure-name)
    U = USE FOR DEBUGGING (procedure-name)

 Defined   Cross-reference of procedures   References

     759   0000-PROCESS-CUSTOMER-MAINT
     975   1000-PROCESS-KEY-MAP P890
    1002   1100-RECEIVE-KEY-MAP P977
    1034   1200-EDIT-KEY-DATA P978
    1114   1300-READ-CUSTOMER-RECORD. . . P1058 P1074 P1091
    1145   1400-SEND-DATA-MAP P804 P916 P993 P1358
P1529
    1220   1500-SEND-KEY-MAP. P780 P789 P881 P908 P999
P1347 P1518 P1620

```
    1329    2000-PROCESS-ADD-CUSTOMER. . .   P892
    1361    2100-RECEIVE-DATA-MAP. . . . .   P1331 P1493
    1397    2200-EDIT-CUSTOMER-DATA. . . .   P1332 P1494
    1454    2300-WRITE-CUSTOMER-RECORD . .   P1334
    1491    3000-PROCESS-CHANGE-CUSTOMER .   P894
    1532    3100-READ-CUSTOMER-FOR-UPDATE.   P1497 P1599
    1562    3200-REWRITE-CUSTOMER-RECORD .   P1500
    1596    4000-PROCESS-DELETE-CUSTOMER .   P896
    1623    4100-DELETE-CUSTOMER-RECORD. .   P1602
    1738    8100-CMF-OPEN. . . . . . . . .   P887 P1115 P1456 P1534
P1564 P1625
    1780    8200-CMF-CLOSE . . . . . . . .   P811 P844 P898
    1660    9700-RESPTEXT. . . . . . . . .   P839 P875 P945 P972
P1028 P1142 P1180 P1215 P1255 P1289 P1324 P1391 P1488 P1559
                                            P1593 P1647 P1771 P1813
    1702    9800-SEND-TERMINATION-MESSAGE
    1719    9900-HANDLE-ABEND
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 Defined   Cross-reference of programs     References


       2    CMMNTF2A
EXTERNAL   DFHEI1 . . . . . . . . . . . .   768 828 833 862 867 937
964 1021 1135 1172 1206 1247 1281 1315 1382 1484 1555
                                            1590 1644 1691 1708 1712
1727 1731 1757 1766 1799 1809
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        COPY/BASIS cross-reference of text-names, library names
and dataset information


 Text-name Library   File name
Concat    ISPF statistics
 (Member) (DDNAME)  (Dataset name)
Level     Created         Changed

 ATTR       SYSLIB   KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL
2    2023/04/27   2024/11/06 17:11:21
```

```
 CMFCLOSE   SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL
3    2024/11/06   2024/11/06 17:09:12
 CMFOPEN    SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL
3    2023/04/27   2024/11/06 17:08:49
 CMFWSREC   SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL
2    2024/11/06   2024/11/06 17:12:03
 CMFWSSTS   SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL
2    2024/11/06   2024/11/06 17:12:47
 DFHAID     SYSLIB     DFH610.CICS.SDFHCOB
0
 ERRORSWS   SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.WS.COBOL
2    2024/11/06   2024/11/06 17:13:16
 HDLABEND   SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL
3    2024/11/06   2024/11/06 17:09:56
 MNTSF2A    SYSLIB     KC03F2A.DCMAFD02.A5P3.COBOL
1
 RESPTEXT   SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL
3    2024/11/06   2024/11/06 17:10:29
 TERMMSG    SYSLIB     KC03F2A.DCMAFD02.COPYBOOK.PR.COBOL
3    2024/11/06   2024/11/06 17:10:52


* Statistics for COBOL program CMMNTF2A:
*    Source records = 2076
*    Data Division statements = 499
*    Procedure Division statements = 541
*    Generated COBOL statements = 116
*    Program complexity factor = 672
End of compilation 1,  program CMMNTF2A,  no statements flagged.
Return code 0
DATA SET UTILITY — GENERATE
PAGE 0001

PROCESSING ENDED AT EOD
z/OS V2 R5 BINDER      15:30:24 FRIDAY NOVEMBER 22, 2024
BATCH EMULATOR  JOB(CMMNTF2A) STEP(COMPLI  ) PGM= IEWL
PROCEDURE(LKED     )
IEW2278I B352 INVOCATION PARAMETERS — LIST,XREF,RENT,MAP
IEW2322I 1220  1     INCLUDE SYSLIB(DFHELII)
IEW2322I 1220  2      NAME CMMNTF2A(R)
```

*** M O D U L E   M A P ***

```
--------------
CLASS  C_CODE              LENGTH =      5680  ATTRIBUTES = CAT,
LOAD, RMODE=ANY
                           OFFSET =         0 IN SEGMENT 001     ALIGN
= DBLWORD
--------------
```

SECTION	CLASS				-------		
SOURCE --------						
OFFSET	OFFSET	NAME	TYPE	LENGTH	DDNAME	SEQ
MEMBER						
	0	CMMNTF2A	CSECT	5680	SYSLIN	02
NULL						
0	0	CMMNTF2A#C	LABEL			
0	0	CMMNTF2A	LABEL			

```
--------------
CLASS  B_TEXT              LENGTH =       C18  ATTRIBUTES = CAT,
LOAD, RMODE=ANY
                           OFFSET =      5680 IN SEGMENT 001     ALIGN
= DBLWORD
--------------
```

SECTION	CLASS				-------		
SOURCE --------						
OFFSET	OFFSET	NAME	TYPE	LENGTH	DDNAME	SEQ
MEMBER						
	0	DFHELII	CSECT	28	SYSLIB	01
DFHELII						
0	0	DFHEPIN	LABEL			
8	8	DFHEXEC	LABEL			
8	8	DFHEI1	LABEL			
8	8	DFHEPI	LABEL			
8	8	DFHEI2	LABEL			

```
        8         8      DFHEI3                LABEL
        8         8      DFHEI4                LABEL
        8         8      DFHEI5                LABEL
        8         8      DFHEI6                LABEL
        8         8      DFHEI7                LABEL
        8         8      DFHEI8                LABEL
        8         8      DFHEI9                LABEL
        8         8      DFHEI10               LABEL
        8         8      DFHEI11               LABEL
        8         8      DFHEI12               LABEL
        8         8      DFHEI13               LABEL
        8         8      DFHEI14               LABEL
        8         8      DFHEI15               LABEL
        8         8      DFHEI16               LABEL
        8         8      DFHEI17               LABEL
        8         8      DFHEI18               LABEL
        8         8      DFHEI01               LABEL
        8         8      DLZEI01               LABEL
        8         8      DLZEI02               LABEL
        8         8      DLZEI03               LABEL
        8         8      DLZEI04               LABEL

                 28    IGZXBS61      *  CSECT        10  SYSLIB    02
IGZXBS61

                 38    CEESG004      *  CSECT        34  SYSLIB    02
CEESG004

                 70    IGZXRT1       *  CSECT        12  SYSLIB    02
IGZXRT1

                 88    IGZXTREC      *  CSECT        12  SYSLIB    02
IGZXTREC

                 A0    IGZXVMO       *  CSECT        12  SYSLIB    02
IGZXVMO
```

*** M O D U L E   M A P ***

```
 SECTION     CLASS                              -------
SOURCE --------
   OFFSET    OFFSET  NAME              TYPE    LENGTH  DDNAME   SEQ
MEMBER
```

SOURCE OFFSET	OFFSET	NAME		TYPE	LENGTH	DDNAME	SEQ
IGZXCMSG	B8	IGZXCMSG	*	CSECT	12	SYSLIB	02
IGZXPRS	D0	IGZXPRS	*	CSECT	12	SYSLIB	02
IGZXBST4	E8	IGZXBST4	*	CSECT	4E0	SYSLIB	02
CEEBETBL	5C8	CEEBETBL	*	CSECT	28	SYSLIB	02
CEESTART	5F0	CEESTART	*	CSECT	B0	SYSLIB	02
CEEBPUBT	6A0	CEEBPUBT	*	CSECT	70	SYSLIB	02
CEEBTRM	710	CEEBTRM	*	CSECT	74	SYSLIB	02
CEEBTRM	788	CEECPYRT	*	CSECT	CF	SYSLIB	02
CEEBLLST	858	CEEBLLST	*	CSECT	5C	SYSLIB	02
10	868	CEELLIST		LABEL			
CEEBINT	8B8	CEEBINT	*	CSECT	8	SYSLIB	02
CEEARLU	8C0	CEEARLU	*	CSECT	B8	SYSLIB	02

```
              978  CEEBPIRA        *  CSECT      2A0  SYSLIB    02
CEEINT
        0    978     CEEINT           LABEL
        0    978     CEEBPIRB         LABEL
        0    978     CEEBPIRC         LABEL
                     *** M O D U L E   M A P ***
```

```
_____
CLASS  C_@@PPA2         LENGTH =        8  ATTRIBUTES = MRG,
LOAD, RMODE=ANY
                        OFFSET =     6298 IN SEGMENT 001    ALIGN
= DBLWORD
_____
```

```
             CLASS
             OFFSET  NAME                TYPE    LENGTH   SECTION
                0  $PRIV000010         PART              8  CMMNTF2A
```

```
_____
CLASS  C_@@CSINIT       LENGTH =        4  ATTRIBUTES = MRG,
LOAD, RMODE=ANY
                        OFFSET =     62A0 IN SEGMENT 001    ALIGN
= DBLWORD
_____
```

```
             CLASS
             OFFSET  NAME                TYPE    LENGTH   SECTION
                0  $PRIV000011         PART              4  CMMNTF2A
```

```
_____
CLASS  B_LIT           LENGTH =      100  ATTRIBUTES = CAT,
LOAD, RMODE=ANY
                        OFFSET =     62A8 IN SEGMENT 001    ALIGN
= DBLWORD
_____
```

```
 SECTION   CLASS                                         _____
SOURCE _____
  OFFSET   OFFSET  NAME                 TYPE    LENGTH  DDNAME   SEQ
```

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MEMBER

```
                 0   IEWBLIT          CSECT        100
**NULL**
         0       0    IEWBLIT          LABEL
```

_____
CLASS C_WSA   LENGTH =   F0 ATTRIBUTES = MRG,
DEFER , RMODE=ANY
                       OFFSET =   0 IN SEGMENT 002   ALIGN
= DBLWORD
_____

```
           CLASS
           OFFSET  NAME              TYPE   LENGTH   SECTION
              0   $PRIV000012       PART        10
             10   CMMNTF2A#S        PART        E0   CMMNTF2A
```

_____
CLASS C_CEESG003   LENGTH =   0 ATTRIBUTES = CAT,
NOLOAD

_____

```
 SECTION    CLASS                                    _____
SOURCE _____
  OFFSET   OFFSET  NAME               TYPE   LENGTH  DDNAME   SEQ
MEMBER

           0   CMMNTF2A           CSECT      0  SYSLIN   02
**NULL**
```
          *** DATA SET SUMMARY ***

DDNAME   CONCAT   FILE IDENTIFICATION

SYSLIB   01   DFH610.CICS.SDFHLOAD
SYSLIB   02   CEE.SCEELKED
SYSLIN   02   SYS24327.T153018.RA000.CMMNTF2A.LOADSET.H01
          *** SYMBOL REFERENCES NOT ASSOCIATED WITH ANY ADCON ***

```
TYPE   SCOPE   NAME


        *** E N D   O F   M O D U L E   M A P ***


                                      C R O S S – R E F E R E N C
E   T A B L E


_____

TEXT CLASS = C_CODE

--------------- R E F E R E N C E ----------------------- T A
R G E T ----------------------------------------
  CLASS                            ELEMENT        |
ELEMENT                                           |
  OFFSET SECT/PART(ABBREV)        OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)              OFFSET CLASS NAME     |
                                                  |
|
     24 CMMNTF2A                      24 A–CON | CMMNTF2A#C
CMMNTF2A                       0 C_CODE         |
     2C CMMNTF2A                      2C A–CON | CMMNTF2A#C
CMMNTF2A                       0 C_CODE         |
     30 CMMNTF2A                      30 A–CON | CMMNTF2A#C
CMMNTF2A                       0 C_CODE         |
     34 CMMNTF2A                      34 A–CON | CMMNTF2A#C
CMMNTF2A                       0 C_CODE         |
     38 CMMNTF2A                      38 V–CON | IGZXBST4
IGZXBST4                       0 B_TEXT         |
     3C CMMNTF2A                      3C A–CON | CMMNTF2A#C
CMMNTF2A                       0 C_CODE         |
     44 CMMNTF2A                      44 A–CON | CMMNTF2A#C
CMMNTF2A                       0 C_CODE         |
   3F7C CMMNTF2A                    3F7C Q–CON | CMMNTF2A#S
$NON–RELOCATABLE              10 C_WSA          |
   3F80 CMMNTF2A                    3F80 V–CON | DFHEI1
```

```
DFHELII                          8 B_TEXT            |
    3F84 CMMNTF2A                     3F84 V-CON | IGZXPRS
IGZXPRS                          0 B_TEXT            |
    3F88 CMMNTF2A                     3F88 V-CON | IGZXCMSG
IGZXCMSG                         0 B_TEXT            |
    3F8C CMMNTF2A                     3F8C A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    3F90 CMMNTF2A                     3F90 A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    3F94 CMMNTF2A                     3F94 V-CON | IGZXVMO
IGZXVMO                          0 B_TEXT            |
    3F98 CMMNTF2A                     3F98 V-CON | IGZXTREC
IGZXTREC                         0 B_TEXT            |
    3F9C CMMNTF2A                     3F9C V-CON | IGZXRT1
IGZXRT1                          0 B_TEXT            |
    40BC CMMNTF2A                     40BC A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    40C8 CMMNTF2A                     40C8 A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    42B8 CMMNTF2A                     42B8 A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    53A8 CMMNTF2A                     53A8 A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    55CC CMMNTF2A                     55CC A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    55CC CMMNTF2A                     55CC A-CON | CEESTART
CEESTART                         0 B_TEXT            |
    55E4 CMMNTF2A                     55E4 A-CON | CMMNTF2A#C
CMMNTF2A                         0 C_CODE            |
    55E8 CMMNTF2A                     55E8 V-CON | CEESTART
CEESTART                         0 B_TEXT            |
    55EC CMMNTF2A                     55EC V-CON | CEEBETBL
CEEBETBL                         0 B_TEXT            |
    563C CMMNTF2A                     563C Q-CON | CMMNTF2A#S
$NON-RELOCATABLE                10 C_WSA             |
```

TEXT CLASS = B_TEXT

```
--------------- R E F E R E N C E ----------------------- T A
R G E T ------------------------------------------
  CLASS                          ELEMENT        |
ELEMENT                      |
  OFFSET SECT/PART(ABBREV)        OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)          OFFSET CLASS NAME      |
                                                |
|
     4C CEESG004                     14 A-CON | IGZEOPT
$UNRESOLVED(W)                                  |
     50 CEESG004                     18 A-CON | IGZETUN
$UNRESOLVED(W)                                  |
     54 CEESG004                     1C A-CON | IGZXRES1
$UNRESOLVED(W)                                  |
     58 CEESG004                     20 A-CON | IEWBLIT
IEWBLIT                    0 B_LIT            |
     538 IGZXBST4                   450 V-CON | CEEINT
CEEBPIRA                   0 B_TEXT           |
     53C IGZXBST4                   454 V-CON | CEEARLU
CEEARLU                    0 B_TEXT           |
     540 IGZXBST4                   458 A-CON | CEESG004
CEESG004                   0 B_TEXT           |
     5CC CEEBETBL                     4 V-CON | CEEBXITA
$UNRESOLVED(W)                                  |
     5D0 CEEBETBL                     8 V-CON | CEEBINT
CEEBINT                    0 B_TEXT           |
     5D4 CEEBETBL                     C V-CON | CEEBLLST
CEEBLLST                   0 B_TEXT           |
     5D8 CEEBETBL                    10 V-CON | CEEUOPT
$UNRESOLVED(W)                                  |
     5DC CEEBETBL                    14 V-CON | CEEBTRM
CEEBTRM                    0 B_TEXT           |
     5E4 CEEBETBL                    1C V-CON | CEEBPUBT
CEEBPUBT                   0 B_TEXT           |
```

                                   C R O S S - R E F E R E N C
E T A B L E

_____

TEXT CLASS = B_TEXT

--------------- R E F E R E N C E ------------------------ T A
R G E T --
  CLASS   ELEMENT |
ELEMENT |
  OFFSET SECT/PART(ABBREV)   OFFSET TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)   OFFSET CLASS NAME |
                                               |
|
     5E8 CEEBETBL   20 V-CON | IEWBLIT
IEWBLIT   0 B_LIT |
     64C CEESTART   5C A-CON | CEEMAIN
$UNRESOLVED(W) |
     65C CEESTART   6C C-LEN |
$NON-RELOCATABLE   B_PRV |
     688 CEESTART   98 A-CON | CEEFMAIN
$UNRESOLVED(W) |
     694 CEESTART   A4 A-CON | CEEBETBL
CEEBETBL   0 B_TEXT |
     698 CEESTART   A8 A-CON | CEEROOTA
$UNRESOLVED(W) |
     69C CEESTART   AC A-CON | CEEROOTD
$UNRESOLVED(W) |
     77C CEEBTRM   6C A-CON | CEEBPUBT
CEEBPUBT   0 B_TEXT |
     868 CEEBLLST   10 A-CON | CEESG000
$UNRESOLVED(W) |
     86C CEEBLLST   14 A-CON | CEESG001
$UNRESOLVED(W) |
     870 CEEBLLST   18 A-CON | CEESG002
$UNRESOLVED(W) |
     874 CEEBLLST   1C A-CON | CEESG003
$UNRESOLVED(W) |
     878 CEEBLLST   20 A-CON | CEESG004
CEESG004   0 B_TEXT |
     87C CEEBLLST   24 A-CON | CEESG005

```
$UNRESOLVED(W)                                           |
     880 CEEBLLST                         28 A-CON | CEESG006
$UNRESOLVED(W)                                           |
     884 CEEBLLST                         2C A-CON | CEESG007
$UNRESOLVED(W)                                           |
     888 CEEBLLST                         30 A-CON | CEESG008
$UNRESOLVED(W)                                           |
     88C CEEBLLST                         34 A-CON | CEESG009
$UNRESOLVED(W)                                           |
     890 CEEBLLST                         38 A-CON | CEESG010
$UNRESOLVED(W)                                           |
     894 CEEBLLST                         3C A-CON | CEESG011
$UNRESOLVED(W)                                           |
     898 CEEBLLST                         40 A-CON | CEESG012
$UNRESOLVED(W)                                           |
     89C CEEBLLST                         44 A-CON | CEESG013
$UNRESOLVED(W)                                           |
     8A0 CEEBLLST                         48 A-CON | CEESG014
$UNRESOLVED(W)                                           |
     8A4 CEEBLLST                         4C A-CON | CEESG015
$UNRESOLVED(W)                                           |
     8A8 CEEBLLST                         50 A-CON | CEESG016
$UNRESOLVED(W)                                           |
     BA8 CEEBPIRA                        230 A-CON | CEEBPUBT
CEEBPUBT                               0 B_TEXT          |
```

TEXT CLASS = C_@@PPA2

```
--------------- R E F E R E N C E ----------------------- T A
R G E T -----------------------------------------
  CLASS                            ELEMENT        |
ELEMENT                          |
  OFFSET SECT/PART(ABBREV)        OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)           OFFSET CLASS NAME      |
                                                 |
|
       4 $PRIV000010                     4 A-CON | CMMNTF2A#C
CMMNTF2A                               0 C_CODE          |
```

TEXT CLASS = C_@@CSINIT

```
-------------- R E F E R E N C E ----------------------- T A
R G E T -------------------------------------------
  CLASS                         ELEMENT         |
ELEMENT                     |
  OFFSET SECT/PART(ABBREV)       OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)      OFFSET CLASS NAME        |
                                              |
|
      0 $PRIV000011                  0 A-CON | CMMNTF2A#C
CMMNTF2A                     0 C_CODE         |
```

TEXT CLASS = B_LIT

```
-------------- R E F E R E N C E ----------------------- T A
R G E T -------------------------------------------
  CLASS                         ELEMENT         |
ELEMENT                     |
  OFFSET SECT/PART(ABBREV)       OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)      OFFSET CLASS NAME        |
                                              |
|
     28 IEWBLIT                    28 L TOKE|
|
```

                              C R O S S - R E F E R E N C
E T A B L E

_____

TEXT CLASS = B_LIT

```
-------------- R E F E R E N C E ----------------------- T A
R G E T -------------------------------------------
```

```
  CLASS                                ELEMENT        |
ELEMENT                       |
  OFFSET SECT/PART(ABBREV)         OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)         OFFSET CLASS NAME       |
                                                 |
|
     50 IEWBLIT                        50 C-LEN |
$NON-RELOCATABLE                 B_TEXT          |
     54 IEWBLIT                        54 A-CON |
B_TEXT             |
     70 IEWBLIT                        70 C-LEN |
$NON-RELOCATABLE                 C_CODE          |
     74 IEWBLIT                        74 A-CON |
C_CODE             |
     90 IEWBLIT                        90 C-LEN |
$NON-RELOCATABLE                 C_WSA           |
     B0 IEWBLIT                        B0 C-LEN |
$NON-RELOCATABLE                 C_@@PPA2        |
     B4 IEWBLIT                        B4 A-CON |
C_@@PPA2           |
     D0 IEWBLIT                        D0 C-LEN |
$NON-RELOCATABLE                 C_@@CSINIT      |
     D4 IEWBLIT                        D4 A-CON |
C_@@CSINIT         |
     F0 IEWBLIT                        F0 C-LEN |
$NON-RELOCATABLE                 B_LIT           |
     F4 IEWBLIT                        F4 A-CON |
B_LIT              |


TEXT CLASS = C_WSA

--------------- R E F E R E N C E  ----------------------- T A
R G E T  ----------------------------------------
  CLASS                                ELEMENT        |
ELEMENT                       |
  OFFSET SECT/PART(ABBREV)         OFFSET  TYPE | SYMBOL(ABBREV)
SECTION (ABBREV)         OFFSET CLASS NAME       |
                                                 |
```

```
|
      28 CMMNTF2A#S                         28 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      2C CMMNTF2A#S                         2C A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      30 CMMNTF2A#S                         30 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      34 CMMNTF2A#S                         34 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      38 CMMNTF2A#S                         38 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      3C CMMNTF2A#S                         3C A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      40 CMMNTF2A#S                         40 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      44 CMMNTF2A#S                         44 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      48 CMMNTF2A#S                         48 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      4C CMMNTF2A#S                         4C A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      50 CMMNTF2A#S                         50 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      54 CMMNTF2A#S                         54 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      58 CMMNTF2A#S                         58 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      5C CMMNTF2A#S                         5C A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      60 CMMNTF2A#S                         60 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      64 CMMNTF2A#S                         64 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      68 CMMNTF2A#S                         68 A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      6C CMMNTF2A#S                         6C A-CON | CMMNTF2A#C
CMMNTF2A                          0 C_CODE           |
      78 CMMNTF2A#S                         78 A-CON | CMMNTF2A#S
$PRIV000003                      10 C_WSA            |
```

```
      7C CMMNTF2A#S                        7C A-CON | CMMNTF2A#C
CMMNTF2A                            0 C_CODE        |
      C4 CMMNTF2A#S                        C4 V-CON | CMMNTF2A
CMMNTF2A                            0 C_CODE        |
      D8 CMMNTF2A#S                        D8 A-CON | CMMNTF2A#S
$PRIV000003                        10 C_WSA         |
                                      *** E N D   O F   C R O S S   R
E F E R E N C E ***
```

                              *** O P E R A T I O N   S U M M A R
Y   R E P O R T ***

PROCESSING OPTIONS:

```
    ALIASES              NO
    ALIGN2               NO
    AMODE                UNSPECIFIED
    CALL                 YES
    CASE                 UPPER
    COMPAT               UNSPECIFIED
    COMPRESS             AUTO
    DCBS                 NO
    DYNAM                NO
    EXTATTR              UNSPECIFIED
    EXITS:               NONE
    FILL                 NONE
    GID                  UNSPECIFIED
    HOBSET               NO
    INFO                 NO
    LET                  04
    LINECT               060
    LIST                 SUMMARY
    LISTPRIV             NO
    LONGPARM             NO
    MAP                  YES
    MAXBLK               032760
    MODMAP               NO
```

```
MSGLEVEL              00
OVLY                  NO
PRINT                 YES
RES                   NO
REUSABILITY           REENTRANT
RMODE                 UNSPECIFIED
RMODEX                NO
SIGN                  NO
STORENX               NOREPLACE
STRIPCL               NO
STRIPSEC              NO
SYMTRACE
TERM                  NO
TRAP                  ON
UID                   UNSPECIFIED
UPCASE                NO
WKSPACE               000000K,000000K
XCAL                  NO
XREF                  YES
***END OF OPTIONS***
```

SAVE OPERATION SUMMARY:

```
MEMBER NAME           CMMNTF2A
LOAD LIBRARY          TSOECCC.CICSTS12.STUDENT.LOADLIB
PROGRAM TYPE          PROGRAM OBJECT(FORMAT 3)
VOLUME SERIAL         KCTR12
DISPOSITION           ADDED NEW
TIME OF SAVE          15.30.26  NOV 22, 2024
```

SAVE MODULE ATTRIBUTES:

```
AC                    000
AMODE                  31
COMPRESSION           NONE
```

```
     DC                   NO
     EDITABLE             YES
     EXCEEDS 16MB         NO
     EXECUTABLE           YES
     LONGPARM             NO
     MIGRATABLE           NO
     OL                   NO
     OVLY                 NO
     PACK,PRIME           NO,NO
     PAGE ALIGN           NO
     REFR                 NO
     RENT                 YES
     REUS                 YES
     RMODE                ANY
     SCTR                 NO
     SIGN                 NO
     SSI
     SYM GENERATED        NO
     TEST                 NO
     XPLINK               NO
     MODULE SIZE (HEX)    00006498
     DASD SIZE (HEX)      00010000
```

 ENTRY POINT AND ALIAS SUMMARY:

 NAME: ENTRY TYPE AMODE C_OFFSET CLASS NAME
STATUS

 CMMNTF2A   MAIN_EP   31 00000000 C_CODE

                     *** E N D   O F   O P E R A T I O N   S U
M M A R Y   R E P O R T ***

z/OS V2 R5 BINDER   15:30:24 FRIDAY NOVEMBER 22, 2024
BATCH EMULATOR JOB(CMMNTF2A) STEP(COMPLI) PGM= IEWL

PROCEDURE(LKED   )
IEW2008I 0F03 PROCESSING COMPLETED. RETURN CODE = 0.

_____
MESSAGE SUMMARY REPORT
_____
 TERMINAL MESSAGES   (SEVERITY = 16)
 NONE

 SEVERE MESSAGES   (SEVERITY = 12)
 NONE

 ERROR MESSAGES   (SEVERITY = 08)
 NONE

 WARNING MESSAGES   (SEVERITY = 04)
 NONE

 INFORMATIONAL MESSAGES (SEVERITY = 00)
 2008 2278 2322

 **** END OF MESSAGE SUMMARY REPORT ****