

```
3 CT EJ D F1(D1A) IPLED  
PROGRAM END  
2 CT EJ D F1(D1A) IPLED  
PROGRAM END  
1 CT EJ D F1(D1A) IPLED  
PROGRAM END
```

```
sim> at pch ccpint.oc1
```

```
// READER MFCU1  
// LOG 1403  
// LOG ON  
// NOHALT  
*  
*** CLEAR AN 5444 SIMULATION AREA.  
*  
// LOAD $SCOPY,F1  
// RUN  
// CLEAR FROM-D2A,PACK-PID001,CLRNAME-F2F2F2,TYPE-FORCE  
// END
```

1 CT EJ I
PROGRAM END

\$SCOPY01

```
*  
*** ALLOCATE LIBRARIES ON AN IBM 5444 PACK.  
*  
// LOAD $MAINT,F1  
// RUN  
// ALLOCATE TO-F2,OBJECT-200,SOURCE-50  
// END
```

```
1 CT EJ I $MAINT01  
PROGRAM END
```

```
sim> at pch ccpgen1.ocl
```

```

*
// READER CONSOLE
// READER MFCU1
// LOG 1403
// LOG ON
// NOHALT
*****
*           I N P U T   T O   C C P   G E N E R A T I O N           *
*****
*
*
* THESE CARDS -- AFTER YOU HAVE MODIFIED THEM TO YOUR SPECIFICATIONS -- *
* WILL BE THE INPUT TO THE FIRST PASS OF CCP GENERATION                *
*
*
* DISCARD THE LEADING CARDS OF THIS DECK, FROM THE // COPY CARD AT THE *
* BEGINNING THROUGH THE CARD THAT MARKS *** END OF INSTRUCTIONS ***    *
*
* DISCARD ALSO THE // CEND CARD -- THE LAST CARD OF THE DECK          *
*
*
* YOU MUST MAKE THREE KINDS OF MODIFICATIONS TO THE REMAINING CARDS -- *
*
* 1. IN THOSE CARDS THAT ARE MARKED ++ IN COLUMNS 74-75, REPLACE      *
* ANY $$ OR ## IN THE CARD WITH THE IDENTIFICATION OF A DISK          *
* UNIT --                                                                *
*
* -- $$ WITH THE UNIT ON WHICH YOUR SYSTEM PACK IS LOCATED            *
*
* -- ## WITH THE UNIT ON WHICH THE CCP DISTRIBUTION PACK IS           *
* LOCATED                                                                *
*
* 2. REPLACE CARD NUMBER 00299 WITH A CARD PUNCHED /* IN COLUMNS 1-2 *
*
* 3. MODIFY THE GENERATION CONTROL STATEMENTS -- THOSE CARDS          *
* FOLLOWING CARD NUMBER 00206 -- TO SPECIFY THE REQUIREMENTS OF        *
* THE CCP YOU WISH TO GENERATE                                          *
*
* IF YOU DO NOT WISH TO USE THE DISTRIBUTION PACK FOR THE REQUIRED       *
* $SOURCE FILE, SPECIFY THE LOCATION OF THAT FILE BY CHANGING THE UNIT *
* AND PACK PARAMETERS IN CARDS 00204 AND 00306                          *
*
*
* WHEN YOU HAVE MADE THESE CHANGES, PLACE THE MODIFIED DECK IN THE    *
* HOPPER OF THE SYSTEM INPUT DEVICE AND BEGIN PASS 1 OF CCP GENERATION *
*
***** END OF INSTRUCTIONS ***** END OF INSTRUCTIONS *****
*
*
*** PROCESS SPECIFICATIONS FOR THE CCP TO BE GENERATED
*
// LOAD $MPXDV,R1
// FILE NAME-$SOURCE,RETAIN-T,UNIT-F2,PACK-F2F2F2,TRACKS-20,
// LOCATION-380,SHARE-NO
// RUN
00100
00200
00201
00202
++00203
++00204
00205
00206

```

1 CT EJ I
PROGRAM END

\$MPXDV01

```
* 00300
*** PRINT RESULTS OF CCP GENERATION PASS 1 00301
* 00302
*** IF NO ERRORS, PUNCH INPUT TO CCP GENERATION PASS 2 00303
* 00304
// LOAD $CC1PP,R1 ++00305
// FILE NAME-$SOURCE,RETAIN-T,UNIT-F2,PACK-F2F2F2,SHARE-NO ++00306
// RUN 00307
```

----- CCP GENERATION CONTROL STATEMENTS -----

\$EFAC	ESCAPE-NO,	-- 'CCCCC' / X'XXXXXXXXXXXX' --	X00010000
	PGMCNT-NO,	-- NO --	X00020000
	FORMAT-NO,	-- NO --	X00030000
	PRUF-NO,	-- YES --	X00040000
	ACCEPT-NO,	-- YES --	X00050000
	RESOPN-NO,	-- YES --	X00060000
	BSYPRT-NO,	-- YES --	X00061000
	MOVTNT-NO,	-- YES --	X00062000
	MOVDFE-NO,	-- YES --	X00063000
	RESREQ-NO,	-- YES --	X00064000
	SIOC-NO,	-- YES --	X00065000
	OPPRUF-NO,	-- YES --	X00066000
	CPUMSG-NO,	-- YES --	X00067000
	LOWCAS-NO,	-- PF1 - PF12 --	X00068000
	TTASK-NO	-- YES --	00069000
\$EPLG	LANG-ASSEM,	-- COBOL / RPGII / FORTRAN / ASSEM --	X00070000
	PPUNIT-F1	-- R1 / F1 / R2 / F2 --	00080000
\$EPLG	LANG-RPGII,	-- COBOL / RPGII / FORTRAN / ASSEM --	X00090000
	PPUNIT-F1	-- R1 / F1 / R2 / F2 --	00100000
\$ESEC	SECURE-CCP	-- CCP / USER --	00110000
\$EFIL	SETS-3,	-- 1 - 25 --	X00120000
	PROGS-15,	-- 1 - 999 --	X00130000
	DFILES-5,	-- 1 - 192 --	X00140000
	TERMS-5,	-- 2 - 254 --	X00150000
	DUMPS-2,	-- 2 - 99 --	X00160000
	CORE-256K,	-- 128K/160K/192K/224K/256K/384K/512K	X00170000
	FLPACK-F2F2F2,	-- NAME OF PACK --	X00180000
	FLUNIT-F2,	-- R1 / F1 / R2 / F2 --	X00190000
	DPTRAC-6	-- 0 - 1000 --	00195000
\$EBSC	BSCA-1,	-- 0 - 2 --	X00200000
	DA-YES,	-- YES --	X00210000
	DIAL-NO,	-- YES --	X00220000
	PP-NO,	-- YES --	X00230000
	MP-NO,	-- YES --	X00240000
	CS-YES,	-- NO --	X00250000
	GETMSG-NO,	-- NO --	X00260000
	ITB-NO,	-- YES --	X00270000
	RECSEP-1E,	-- TWO HEX DIGITS --	X00280000
	ASCII-NO,	-- YES --	X00290000
	EBCDIC-YES,	-- NO --	X00300000
	XPRNCY-NO,	-- YES --	X00310000
	RESPOL-NO,	-- YES --	X00320000
	INTPOL-YES,	-- NO --	X00330000
	AUTORS-NO,	-- YES --	X00340000
	PORT-NO	-- YES --	00345000
\$EBSD	TYPE-3277M1	-- SEE SYSTEM REFERENCE MANUAL --	00350000
\$EBSD	TYPE-3277M2	-- SEE SYSTEM REFERENCE MANUAL --	00350000
\$ECSC	BSCC-0,	-- 0 - 2 --	X00360000

----- CCP GENERATION CONTROL STATEMENTS -----

GETMSG-NO,	-- NO --		X00370000
ITB-NO,	-- YES --		X00380000
RECSEP-1E,	-- TWO HEX DIGITS --		X00390000
ASCII-NO,	-- YES --		X00400000
EBCDIC-YES,	-- NO --		X00410000
XPRNCY-NO,	-- YES --		X00420000
INTPOL-NO,	-- NO --		X00430000
PORT-NO,	-- YES --		X00432000
PP-NO,	-- YES --		X00434000
CS-NO	-- NO --		00436000
\$EGEN DSUNIT-F1,	-- R1 / F1 --		X00450000
CCUNIT-F2,	-- R1 / F1 / R2 / F2 --		X00460000
WKUNIT-D1,	-- 'UNIT,UNIT,UNIT' --		X00470000
WKPACK-PID001,	-- 'PACK,PACK,PACK' --		X00480000
DIUNIT-R1,	-- R1 / F1 / R2 / F2 --	CCP-PID	X00490000
MINRES-NO,	-- YES --		X00500000
CARD-NO,	-- YES --		X00510000
DPPACK-PID001,	-- PACK NAME --		X00510001
DPUNIT-D2	-- UNIT --		00510002

NO ERRORS DETECTED IN GENERATION CONTROL STATEMENTS

INPUT TO PASS 2 OF GENERATION WILL BE PRINTED

----- INPUT TO CCP GENERATION PASS 2 -----

```
// COPY NAME-$CC1FC,LIBRARY-P CCP00000
* --- PREPARE THE INITIAL CONTENTS OF $CCPFILE --- CCP00001
* CCP00002
*** FIRST, USE THE SCP GENERATOR TO CONVERT THE CONTENTS OF THE CCP00003
*** CCP CONFIGURATION RECORD AND THE ASSIGNMENT DIRECTORY TO ENCODED CCP00004
*** FORM -- SAVE THIS ENCODED INFORMATION AS A RELOCATABLE MODULE CCP00005
*** NAMED $CC1FC -- THE INFORMATION WILL LATER BE WRITTEN TO THE CCP00006
*** FIRST TWO SECTORS OF $CCPFILE AS THE CCP CONFIGURATION RECORD CCP00007
*** AND THE ASSIGNMENT SET DIRECTORY CCP00008
* CCP00009
// NOHALT CCP00010
// LOAD $CGDRV,R1 CCP00011
// SWITCH 0XXXXXXX CCP00012
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-10,RETAIN-S, CCP00013
// SHARE-NO CCP00014
// FILE NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-5,RETAIN-S, CCP00015
// SHARE-NO CCP00016
// FILE NAME-$WORK2,UNIT-D1,PACK-PID001,TRACKS-5,RETAIN-S, CCP00017
// SHARE-NO CCP00018
// COMPILE UNIT-R1,SOURCE-$CC1FC CCP00019
// RUN CCP00020
// CEND CCP00021
// COPY NAME-$CC1FC,LIBRARY-S CCP00022
$CC1FC TITLE 'CCP CONFIGURATION RECORD AND DIRECTORY' CCP00023
$CC1FC START 0 MODULE NAME CCP00024
EXTRN $CC1BF REFERENCE TO MODULE WHICH INITs CCP00025
EJECT CCP00026
***** CCP00027
* C C P C O N F I G U R A T I O N R E C O R D * CCP00028
***** CCP00029
SPACE 2 CCP00030
* THIS SET OF 256 BYTES -- A SECTOR ON DISK -- INDICATES TO CCP THOSE CCP00031
* DEVICES AND SYSTEM FACILITIES YOU SPECIFIED DURING CCP GENERATION CCP00032
SPACE 1 CCP00033
CFGVRF DC XL2'EBD7' TWO BYTES *ALWAYS* HEX 'EBD7' CCP00034
SPACE 1 CCP00035
CFGCA1 DC BL1'00000000' BSCC FACILITIES BYTE ONE CCP00036
CFGCA2 DC BL1'00000000' FACILITIES BYTE TWO CCP00037
CFGRSM DC XL1'1E' RECORD SEPARATOR BYTE (BSCC) CCP00038
CFGYD1 DC BL1'00000000' BSCC DEVICES--BYTE 1 CCP00039
CFGYD2 DC BL1'00000000' BSCC DEVICES--BYTE 2 CCP00040
CFGTP1 DC AL1(0) NUMBER OF BSCC LINES CCP00041
SPACE 1 CCP00042
CFGFA2 DC BL1'00010000' FACILITIES--BYTE 2 CCP00043
CFGFLA DC BL1'00000000' CCP FLAG A CCP00044
CFGDPQ DC XL1'C8' Q-BYTE OF $CCPDUMP FILE CCP00045
CFGPLG DC BL1'00110000' PROGRAMMING LANGUAGES SUPPORTED CCP00046
SPACE 1 CCP00047
CFGCBO DC XL2'00C7' CONSOLE INTERRUPT BRANCH OFFSET CCP00048
CFGESC DC CL6' ' *NO* DATA MODE ESCAPE STRING CCP00049
CFGUS DC IL2'0' LENGTH OF USER SECURITY DATA CCP00050
CFGV3 DC 4XL1'00' *RESERVED* CCP00051
SPACE 1 CCP00052
CFGNS DC IL1'3' MAX NUMBER SETS CCP00053
CFGNPM DC IL2'15' MAX NUMBER PROGRAMS CCP00054
```

```

----- INPUT TO CCP GENERATION PASS 2 -----
CFGNDF DC    IL1'5'          MAX NUMBER DISK FILES          CCP00055
CFGNT  DC    IL1'5'          MAX NUMBER TERMINALS           CCP00056
CFGDMP DC    IL1'2'          MAX NUMBER CORE DUMPS         CCP00057
CFGSC  DC    IL2'1024'      MEMORY # SECTORS (384-2048)    CCP00058
CFGRV4 DC    3XL1'00'      *RESERVED*                     CCP00059
      SPACE 1                      CCP00060
CFGTP  DC    AL1(16*0+1)    NUMBER COMMUNICATIONS LINES    CCP00061
      SPACE 1                      CCP00062
CFGMD1 DC    BL1'00000000'  MLTA DEVICES--BYTE 1          CCP00063
CFGMD2 DC    BL1'00000000'  MLTA DEVICES--BYTE 2          CCP00064
CFGMD3 DC    BL1'00000000'  MLTA DEVICES--BYTE 3          CCP00065
CFGRV5 DC    2XL1'00'      *RESERVED*                     CCP00066
CFGMXC DC    BL1'00000000'  MLTA TRANSMISSION CODES      CCP00067
CFGRV6 DC    2XL1'00'      *RESERVED*                     CCP00068
      SPACE 1                      CCP00069
CFGBLT DC    BL1'00100000'  BSC LINE TYPES SUPPORTED     CCP00070
CFGBFA DC    BL1'00100100'  BSC FACILITIES                CCP00071
CFGBF1 DC    BL1'10000000'  BSC FACILITIES CONTINUED     CCP00072
CFGRV7 DC    1XL1'00'      *RESERVED*                     CCP00073
CFGRSB DC    XL1'1E'        RECORD SEPARATOR BYTE (BSCA)  CCP00074
CFGBD1 DC    BL1'01000100'  BSCA DEVICES--BYTE 1         CCP00075
CFGBD2 DC    BL1'00000000'  BSCA DEVICES--BYTE 2         CCP00076
      SPACE 1                      CCP00077
      SPACE 1                      CCP00078
      DC    203XL1'FF'          FILLED WITH HEX 'FF'         CCP00079
      EJECT                      CCP00080
*****                      CCP00081
*          $ C C P F I L E   D I R E C T O R Y          *      CCP00082
*****                      CCP00083
      SPACE 2                      CCP00084
* THIS SET OF 256 BYTES -- A SECOND SECTOR ON DISK -- SERVES AS A  CCP00085
* DIRECTORY TO THE CONTENTS OF THIS FILE FOR THE CCP ASSIGNMENT AND  CCP00086
* STARTUP PROGRAMS -- EACH FIELD IS INITIALLY ZERO                 CCP00087
      SPACE 1                      CCP00088
DIRNSA DC    IL1'0'          CURRENT NUMBER ASSIGNMENT SETS CCP00089
DIRRS1 DC    IL2'0'          * RESERVED *                   CCP00090
DIRDAT DC    XL3'000000'    DATE LAST MODIFIED            CCP00091
DIRDID DC    XL1'00'        EXECUTION DEFAULT SET         CCP00092
DIRNFX DC    XL1'00'        *** UNUSED ***                 CCP00093
DIRRS2 DC    IL2'0'          * RESERVED *                   CCP00094
DIRRS3 DC    IL1'0'          * RESERVED *                   CCP00095
DIRBD@ DC    XL2'0000'      LOCATION BEGIN DUMP AREA       CCP00096
DIRED@ DC    XL2'0000'      LOCATION END DUMP AREA         CCP00097
DIRRS5 DC    XL2'0000'      * RESERVED *                   CCP00098
      SPACE 1                      CCP00099
* ASSIGNMENT SET DIRECTORY ENTRIES START HERE                      CCP00100
      SPACE 1                      CCP00101
      DC    239XL1'FF'          INITIALLY UNUSED PORTION           CCP00102
      SPACE 5                      CCP00103
      END    $CC1FC                      CCP00104
// CEND                      CCP00105
// COPY  NAME-$CC1LC,LIBRARY-P                      CCP00106
*** USE THE OVERLAY LINKAGE EDITOR TO JOIN THE ABOVE MODULE WITH  CCP00107
*** ANOTHER MODULE CAPABLE OF WRITING THE INFORMATION TO $CCPFILE -- CCP00108
*** SAVE THE RESULTING LOAD MODULE $CC1BF ON THE DISTRIBUTION PACK  CCP00109

```

----- INPUT TO CCP GENERATION PASS 2 -----

*** FOR LATER INITIALIZATION OF \$CCPFILE	CCP00110
*	CCP00111
// LOAD \$OLINK,F1	CCP00112
// FILE NAME-\$SOURCE,UNIT-D1,PACK-PID001,TRACKS-10,RETAIN-S,	CCP00113
// SHARE-NO	CCP00114
// FILE NAME-\$WORK,UNIT-D1,PACK-PID001,TRACKS-10,RETAIN-S,	CCP00115
// SHARE-NO	CCP00116
// RUN	CCP00117
// PHASE NAME-\$CC1BF,UNIT-R1,RETAIN-R,LINKADD-X'4000'	CCP00118
// OPTIONS ENTRY-EXECBF,LEVEL-4	CCP00119
// INCLUDE NAME-'\$CC1FC,\$CC1BF',UNIT-R1	CCP00120
// END	CCP00121
// CEND	CCP00122
// COPY NAME-\$CC1#1,LIBRARY-P	CCP00123

----- INPUT TO CCP GENERATION PASS 2 -----

```
*      --- CREATE THE EXECUTION STAGE RESIDENT MODULES ---      CCP00124
*                                                                CCP00125
*** USE THE MACRO PROCESSOR TO EXPAND SOURCE CODE OF THE FIRST  CCP00126
*** OF THE RESIDENT MODULES - $CC4#1                          CCP00127
*                                                                CCP00128
// LOAD $MPXDV,R1                                             CCP00129
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-130,RETAIN-T,  CCP00130
//      SHARE-NO                                             CCP00131
// COMPILE UNIT-R1,SOURCE-$CC1#1                             CCP00132
// RUN                                                         CCP00133
// CEND                                                        CCP00134
// COPY NAME-$CC1#1,LIBRARY-S                                CCP00135
$CC4#1 TITLE 'BEGIN CCP SYSTEM CONTROL MODULE'               CCP00136
$CC4#1 START X'4600' CCP SYSTEM CONTROL MODULE               CCP00137
$E000 #M-0,#B-1,DF-0,DE-0,MS-0,RF-0,RS-0                    CCP00138
$E001 PC-0,SO-10,RR-0,MVT-0,MOV-0                            CCP00139
$E002 ML-00,MT-000,MF-0,MS-0                                 CCP00140
$E003 BL-0010,BF-00100100,BT-0100010000000000,INP-1,BIA-1,BY-0 CCP00141
$E004 CS#-0,CSI-0,CT-0000000000000000,CSF-00000000,SIOC-0  CCP00142
$E005 AP-0,CP-0,TK-0,PP-0,CS-0                              CCP00143
TITLE 'EQUATES -- COMMON VALUES'                            CCP00144
$EEQU                                                         CCP00145
TITLE 'EQUATES -- CCP COMMUNICATIONS AREA'                   CCP00146
$ECOM ID-0,DF-0                                              CCP00147
TITLE 'EQUATES -- TASK CONTROL BLOCK'                         CCP00148
$ETCB                                                         CCP00149
TITLE 'EQUATES -- FOR PROGRAM APPENDED STORAGE'              CCP00150
$EPAS                                                         CCP00151
TITLE 'EQUATES -- FOR SYSLOG'                                 CCP00152
$LOGD                                                         CCP00153
TITLE 'EQUATES -- FOR SYSTEM COMM AREAS'                     CCP00154
$EDSM RB-Y,SP-Y                                              CCP00155
TITLE 'EQUATES -- TASK COMPLETION CODES'                     CCP00156
$ETCC DF-0                                                    CCP00157
TITLE 'EQUATES -- COMMUNICATIONS PARAMETER LIST'             CCP00158
$ECPL                                                         CCP00159
TITLE 'EQUATES -- TERMINAL ATTRIBUTES SET'                   CCP00160
$ETAS                                                         CCP00161
TITLE 'EQUATES -- TERMINAL UNIT BLOCK'                       CCP00162
$ETUB                                                         CCP00163
TITLE 'EQUATES -- LINE CONTROL BLOCK'                        CCP00164
$ELCB                                                         CCP00165
TITLE 'EQUATES -- TERMINAL NAME TABLE'                      CCP00166
$ETNT                                                         CCP00167
TITLE 'EQUATES -- TRANSLATE/MOVE LIST'                       CCP00168
$ETML                                                         CCP00169
TITLE 'CCP COMMON AREA'                                      CCP00170
$E030 ROC-0,ORF-0,PF-FF                                       CCP00171
$E060                                                         CCP00172
$E038 MXL-0000000000000000,CON-1                             CCP00173
END $CC4#1                                                    CCP00174
// CEND                                                       CCP00175
// COPY NAME-$CC1#A,LIBRARY-P                                CCP00176
*** USE THE SCP GENERATOR TO PROCESS THIS SOURCE CODE INTO A  CCP00177
*** RELOCATABLE MODULE                                       CCP00178
```

----- INPUT TO CCP GENERATION PASS 2 -----

```
*
// LOAD $CGDRV,R1
// SWITCH 1XXXXXXX
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,RETAIN-S,SHARE-NO
// FILE NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,
// SHARE-NO
// FILE NAME-$WORK2,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,
// SHARE-NO
// RUN
// CEND
// COPY NAME-$CC1L1,LIBRARY-P
*** USE THE OVERLAY LINKAGE EDITOR TO FORM THE FIRST RESIDENT MODULE
*** AS A LOAD MODULE NAMED $CC4#1.
*
// LOAD $OLINK,R1
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-100,RETAIN-S,
// SHARE-NO
// FILE NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,
// SHARE-NO
// RUN
// OPTIONS ENTRY-$CC4II,MAP-XREF,LEVEL-4
// PHASE NAME-$CC4#1,UNIT-F2,RETAIN-R,LINKADD-X'4600',RLD-NO
// CATEGORY NAME-$CC4V1,VALUE-100
// INCLUDE NAME-'$CC4#1,$CC4MS,$CC4V1',UNIT-R1
// INCLUDE NAME-$CC4MV,UNIT-R1
// INCLUDE NAME-$CC4TI,UNIT-R1
// INCLUDE NAME-$CC4OC,UNIT-R1
// INCLUDE NAME-$CC4CP,UNIT-R1
// INCLUDE NAME-$CC4PI,UNIT-R1
// END
// CEND
// COPY NAME-$CC1VT,LIBRARY-P
*** USE THE MACRO PROCESSOR TO EXPAND SOURCE CODE OF THE ADDRESS
*** VECTOR TABLE - $CC4VT
*
// LOAD $MPXDV,R1
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-50,RETAIN-T,
// SHARE-NO
// COMPILE UNIT-R1,SOURCE-$CC1VT
// RUN
// CEND
// COPY NAME-$CC1VT,LIBRARY-S
$CC4VT TITLE 'ADDRESS -- VECTOR -- TABLE'
$CC4VT START 0
$E000 #M-0,#B-1,DF-0,DE-0,MS-0
$E002 ML-00,MT-000,MF-0,MS-0
$E003 BL-0010,BF-00100100,BT-0100010000000000,INP-1,BIA-1,BY-0
$E005 AP-0,CP-0,TK-0,PP-0,CS-0
$E033 MD1-00000000,MD2-00000000,MD3-0000,BF-00100100
END $CC4VT
// CEND
// COPY NAME-$CC1VS,LIBRARY-P
*** USE THE SCP GENERATOR TO PROCESS THIS SOURCE CODE INTO A
*** RELOCATABLE MODULE - $CC4VT
*
```

```
CCP00179
CCP00180
CCP00181
CCP00182
CCP00183
CCP00184
CCP00185
CCP00186
CCP00187
CCP00188
CCP00189
CCP00190
CCP00191
CCP00192
CCP00193
CCP00194
CCP00195
CCP00196
CCP00197
CCP00198
CCP00199
CCP00200
CCP00201
CCP00202
CCP00203
CCP00204
CCP00205
CCP00206
CCP00207
CCP00208
CCP00209
CCP00210
CCP00211
CCP00212
CCP00213
CCP00214
CCP00215
CCP00216
CCP00217
CCP00218
CCP00219
CCP00220
CCP00221
CCP00222
CCP00223
CCP00224
CCP00225
CCP00226
CCP00227
CCP00228
CCP00229
CCP00230
CCP00231
CCP00232
CCP00233
```

----- INPUT TO CCP GENERATION PASS 2 -----

```
// LOAD $CGDRV,R1 CCP00234
// SWITCH 1XXXXXXX CCP00235
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,RETAIN-S, CCP00236
// SHARE-NO CCP00237
// FILE NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S, CCP00238
// SHARE-NO CCP00239
// FILE NAME-$WORK2,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S, CCP00240
// SHARE-NO CCP00241
// RUN CCP00242
// CEND CCP00243
// COPY NAME-$CC1#2,LIBRARY-P CCP00244
*** USE THE MACRO PROCESSOR TO EXPAND SOURCE CODE OF THE SECOND CCP00245
*** RESIDENT MODULE - $CC4#2 CCP00246
* CCP00247
// LOAD $MPXDV,R1 CCP00248
// FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-180,RETAIN-T, CCP00249
// SHARE-NO CCP00250
// COMPILE UNIT-R1,SOURCE-$CC1#2 CCP00251
// RUN CCP00252
// CEND CCP00253
// COPY NAME-$CC1#2,LIBRARY-S CCP00254
$CC4#2 TITLE 'BEGIN CCP COMMUNICATIONS CONTROL MODULE' CCP00255
$CC4#2 START 0 CCP COMMUNICATIONS CNTRL MODULE CCP00256
$E000 #M-0,#B-1,DF-0,DE-0,MS-0,RF-0,RS-0 CCP00257
$E002 ML-00,MT-000,MF-0,MS-0 CCP00258
$E003 BL-0010,BF-00100100,BT-0100010000000000,INP-1,BIA-1,BY-0 CCP00259
$E004 CS#-0,CSI-0,CT-0000000000000000,CSF-00000000,SIOC-0 CCP00260
$E005 AP-0,CP-0,TK-0,PP-0,CS-0 CCP00261
TITLE 'EQUATES -- COMMON VALUES' CCP00262
$EEQU CCP00263
TITLE 'EQUATES -- CCP COMMUNICATIONS AREA' CCP00264
$SECOM ID-0,DF-0,CP-Y,AM-Y,TM-Y,CM-Y CCP00265
TITLE 'EQUATES -- TASK CONTROL BLOCK' CCP00266
$ETCB CCP00267
TITLE 'EQUATES -- DSM TCB' CCP00268
$EDSM NP-Y,NC-Y,SP-N CCP00269
TITLE 'EQUATES -- COMMUNICATIONS PARAMETER LIST' CCP00270
$ECPL RTNCD-EXCP CCP00271
TITLE 'EQUATES -- TERMINAL ATTRIBUTES SET' CCP00272
$ETAS CCP00273
TITLE 'EQUATES -- TERMINAL UNIT BLOCK' CCP00274
$ETUB CCP00275
TITLE 'EQUATES -- LINE CONTROL BLOCK' CCP00276
$ELCB MLTA-0,BSCA-1 CCP00277
TITLE 'EQUATES -- TRANSLATE/MOVE LIST' CCP00278
$ETML CCP00279
TITLE 'EQUATES -- BSCA COMMON VALUES' CCP00280
$EBEQ IOB-Y,WKA-Y,POL-Y,CKL-Y,CMD-CM,MIN-Y CCP00281
TITLE 'EQUATES -- BSCA DTF' CCP00282
$DFOB CCP00283
$E038 MXL-0000000000000000 CCP00284
$E070 CCP00285
$E072 CCP00286
$E080 CCP00287
$E085 CCP00288
```

----- INPUT TO CCP GENERATION PASS 2 -----

```

      $E090                                CCP00289
      $E092                                CCP00290
      $E093                                CCP00291
      $E095                                CCP00292
      END  $CC4#2                          CCP00293
// CEND                                    CCP00294
// COPY  NAME-$CC1#B,LIBRARY-P            CCP00295
*** USE THE SCP GENERATOR TO PROCESS THIS SOURCE CODE INTO A  CCP00296
*** RELOCATABLE MODULE - $CC4#2          CCP00297
*                                          CCP00298
// LOAD  $CGDRV,R1                        CCP00299
// SWITCH 1XXXXXXX                       CCP00300
// FILE  NAME-$SOURCE,UNIT-D1,PACK-PID001,RETAIN-S,SHARE-NO  CCP00301
// FILE  NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-050,RETAIN-S,  CCP00302
//      SHARE-NO                          CCP00303
// FILE  NAME-$WORK2,UNIT-D1,PACK-PID001,TRACKS-050,RETAIN-S,  CCP00304
//      SHARE-NO                          CCP00305
// RUN                                       CCP00306
// CEND                                    CCP00307
// COPY  NAME-$CC1LE,LIBRARY-P            CCP00308
// LOAD  $OLINK,R1  LINKEDIT $CC4#2       CCP00309
// FILE  NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-100,RETAIN-S,  CCP00310
//      SHARE-NO                          CCP00311
// FILE  NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,  CCP00312
//      SHARE-NO                          CCP00313
// RUN                                       CCP00314
// OPTIONS  ENTRY-$CC4CM,MAP-XREF,LEVEL-4  CCP00315
// PHASE  NAME-$CC4#2,UNIT-F2,RETAIN-R,LINKADD-X'0000'        CCP00316
// CATEGORY NAME-$CC4V2,VALUE-100         CCP00317
// INCLUDE NAME-'$CC4VT,$CC4#2,$CC4V2',UNIT-R1                CCP00318
// INCLUDE NAME-'$CC4IB,$CC4BT',UNIT-R1                       CCP00319
// INCLUDE NAME-$CC4M1,UNIT-R1                                CCP00320
// INCLUDE NAME-$$BSLG,UNIT-F1                               CCP00321
// INCLUDE NAME-$$BSID,UNIT-F1                               CCP00322
// END                                                        CCP00323
// CEND                                                        CCP00324
// COPY  NAME-$CC1BT,LIBRARY-P                                CCP00325
*** USE THE OVERLAY LINKAGE EDITOR TO CREATE THE LOADABLE BSCA TRACE  CCP00326
*** SERVICE AID                                             CCP00327
*                                                           CCP00328
// LOAD  $OLINK,R1                                           CCP00329
// FILE  NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-100,RETAIN-S,  CCP00330
//      SHARE-NO                                             CCP00331
// FILE  NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-40,RETAIN-S,   CCP00332
//      SHARE-NO                                             CCP00333
// RUN                                                        CCP00334
// PHASE  NAME-$CC$BS,UNIT-F2,RETAIN-R                       CCP00335
// OPTIONS  LEVEL-4                                          CCP00336
// INCLUDE NAME-$CC$BS,UNIT-R1                               CCP00337
// INCLUDE NAME-$$BSTT,UNIT-F1                               CCP00338
// END                                                        CCP00339
// CEND                                                        CCP00340
// COPY  NAME-$CC1C1,LIBRARY-P                               CCP00341
```


----- INPUT TO CCP GENERATION PASS 2 -----

```
*      --- COPY REQUIRED LOAD MODULES FOR ALL STAGES OF CCP ---      CCP00342
*
// LOAD  $MAINT,F1      CCP00343
// RUN      CCP00344
// COPY  FROM-R1,TO-F2,LIBRARY-O,RETAIN-R,NAME-$CC1BF      CCP00345
// COPY  FROM-R1,TO-F2,LIBRARY-O,RETAIN-R,NAME-$CC1DP      CCP00346
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCPAS      CCP00347
// COPY  FROM-R1,TO-F2,LIBRARY-O,RETAIN-R,NAME-$CCHRA,NEWNAME-$CCTRA      CCP00348
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCY.ALL,NEWNAME-$CC2      CCP00349
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCPAL      CCP00350
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCPPGM      CCP00351
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$HACCP      CCP00352
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCUUN,NEWNAME-$CC4UN      CCP00353
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCP      CCP00354
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CC3.ALL      CCP00355
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CC4SU      CCP00356
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CC4YA      CCP00357
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCS.ALL,NEWNAME-$CC4      CCP00358
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCT.ALL,NEWNAME-$CC4      CCP00359
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCE.ALL,NEWNAME-$CC4      CCP00360
// END      CCP00361
// CEND      CCP00362
// COPY  NAME-$CC1C3,LIBRARY-P      CCP00363
// LOAD  $MAINT,F1      CCP00364
// RUN      CCP00365
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCC.ALL,NEWNAME-$CC4      CCP00366
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCB.ALL,NEWNAME-$CC4      CCP00367
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCI.ALL,NEWNAME-$CC4      CCP00368
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCG.ALL,NEWNAME-$CC4      CCP00369
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCR.ALL,NEWNAME-$CC4      CCP00370
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCA.ALL,NEWNAME-$CC4      CCP00371
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCO.ALL,NEWNAME-$CC4      CCP00372
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCL.ALL,NEWNAME-$CC4      CCP00373
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCX.ALL,NEWNAME-$CC4      CCP00374
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CC5SH      CCP00375
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CC5CL      CCP00376
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCPDD      CCP00377
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CCPIVP      CCP00378
// COPY  FROM-R1,TO-F2,RETAIN-R,LIBRARY-O,NAME-$CC6.ALL,NEWNAME-$CCP      CCP00379
// COPY  FROM-R1,TO-F2,LIBRARY-S,NAME-$CGSST,RETAIN-R      CCP00380
// END      CCP00381
// CEND      CCP00382
// COPY  NAME-$CC1AS,LIBRARY-P      CCP00383
*** COPY MACRO DEFINITIONS AND ANY REQUIRED SUBROUTINES FOR USE WITH      CCP00384
*** BASIC ASSEMBLER TO PROGRAM PREPARATION PACK      CCP00385
*      CCP00386
// PAUSE  ASSURE BASIC ASSEMBLER PACK ON UNIT F1 -- THEN CONTINUE      CCP00387
// LOAD  $MAINT,F1      CCP00388
// RUN      CCP00389
// COPY  FROM-R1,TO-F1,RETAIN-R,LIBRARY-S,NAME-$N.ALL      CCP00390
// END      CCP00391
// CEND      CCP00392
// COPY  NAME-$CC1RG,LIBRARY-P      CCP00393
*** COPY SUBROUTINES FOR USE WITH RPG II TO PROGRAM PREPARATION PACK      CCP00394
*      CCP00395
*      CCP00396
```

----- INPUT TO CCP GENERATION PASS 2 -----

// PAUSE	ASSURE RPG II PROGRAM PACK ON UNIT F1 -- THEN CONTINUE	CCP00397
// LOAD	\$MAINT,F1	CCP00398
// RUN		CCP00399
// COPY	FROM-R1,TO-F1,RETAIN-R,LIBRARY-R,NAME-SUBR.ALL	CCP00400
// END		CCP00401

----- INPUT TO CCP GENERATION PASS 2 -----

// CEND	CCP00402
// COPY NAME-\$CC1ND,LIBRARY-P	CCP00403
*	CCP00404
*** PRINT SAMPLE ASSIGNMENT SET TO BE USED WITH INSTALLATION	CCP00405
*** VERIFICATION PROGRAM	CCP00406
*	CCP00407
// LOAD \$MAINT,F1	CCP00408
// RUN	CCP00409
// COPY FROM-R1,TO-PRINT,LIBRARY-S,NAME-\$CGSST	CCP00410
// COPY FROM-R1,TO-PRINT,LIBRARY-S,NAME-\$CGCND	CCP00411
// END	CCP00412
// CEND	CCP00413
// COPY NAME-\$CC1BF,LIBRARY-P	CCP00414

----- INPUT TO CCP GENERATION PASS 2 -----

* --- ALLOCATE \$CCPFILE AND WRITE INITIAL CONTENTS ---	CCP00415
*	CCP00416
*** EXECUTE THE PREVIOUSLY CREATED LOAD MODULE \$CC1BF TO WRITE THE	CCP00417
*** INITIAL CONTENTS OF \$CCPFILE	CCP00418
*	CCP00419
// PAUSE ASSURE UNIT F2 CONTAINS PACK F2F2F2 -- THEN CONTINUE	CCP00420
// LOAD \$CC1BF,R1	CCP00421
// FILE NAME-\$CCPFILE,UNIT-F2,PACK-F2F2F2,TRACKS-2,RETAIN-P,	CCP00422
// SHARE-NO	CCP00423
// RUN	CCP00424
// CEND	CCP00425
// COPY NAME-\$CC1DP,LIBRARY-P	CCP00426

----- INPUT TO CCP GENERATION PASS 2 -----

* --- ALLOCATE \$CCPDUMP AND WRITE INITIAL CONTENTS ---	CCP00427
*	CCP00428
*** EXECUTE THE LOAD MODULE \$CC1DP TO WRITE THE INTITIAL	CCP00429
*** CONTENTS OF \$CCPDUMP	CCP00430
*	CCP00431
// PAUSE ASSURE UNIT D2 CONTAINS PACK PID001 -- THEN CONTINUE	CCP00432
*** IF CCP WILL BE EXECUTED ON A SYSTEM HAVING A DIFFERENT MAIN STORAGE	CCP00433
*** SIZE, \$CCPDUMP MUST BE RECREATED ON THAT SYSTEM USING \$CC1DP.	CCP00434
// LOAD \$CC1DP,R1	CCP00435
// FILE NAME-\$CCPDUMP,UNIT-D2,PACK-PID001,TRACKS-49,	CCP00436
// SHARE-NO,RETAIN-P	CCP00437
// RUN	CCP00438
// TRACE TRACKS-6	CCP00439
// CEND	CCP00440

----- INPUT TO CCP GENERATION PASS 2 -----

```
// COPY NAME-$CCPSA,LIBRARY-P CCP00441
*** PERFORM CCP GENERATION PASS 2 *** CCP00442
* CCP00443
// CALL $CC1FC,R1 *** ASSEMBLE $CC1FC CCP00444
// CALL $CC1LC,R1 *** CREATE R-MODULE $CC1FC CCP00445
// CALL $CC1#1,R1 *** EXPAND $CC4#1 MOCROS CCP00446
// CALL $CC1#A,R1 *** ASSEMBLE $CC4#1 CCP00447
// CALL $CC1L1,R1 *** CREATE $CC4#1 CCP00448
// CALL $CC1VT,R1 *** EXPAND $CC4VT MACROS CCP00449
// CALL $CC1VS,R1 *** ASSEMBLE $CC4VT CCP00450
// CALL $CC1#2,R1 *** EXPAND $CC4#2 MACROS CCP00451
// CALL $CC1#B,R1 *** ASSEMBLE $CC4#2 CCP00452
// CALL $CC1LE,R1 *** CREATE $CC4#2 CCP00453
// CALL $CC1BT,R1 *** CREATE BSCA TRACE MODULE CCP00454
// CALL $CC1C1,R1 *** COPY REQUIRED CCP MODULES CCP00455
// CALL $CC1C3,R1 *** COPY REQUIRED CCP MODULES CCP00456
// CALL $CC1AS,R1 *** COPY ASSEMBLER MODULES CCP00457
// CALL $CC1RG,R1 *** COPY RPGII MODULES CCP00458
// CALL $CC1ND,R1 *** COPY SAMPLE ASSIGNMENT CCP00459
// CALL $CC1BF,R1 *** CREATE $CCPFILE CCP00460
// CALL $CC1DP,R1 *** CREATE $CCPDUMP FILE CCP00461
// CEND CCP00462
// END CCP00463
```

----- INPUT TO CCP GENERATION PASS 2 -----

\$MAINT WILL NOW BUILD SOURCE AND PROCEDURE MEMBERS FOR GENERATION PASS 2

1 CT EJ I
PROGRAM END

\$CC1PP01


```

*
*** CCP CARDLESS GENERATION PROCEDURE ***
*
*** IF NO ERRORS IN GENERATION SPECIFICATIONS, LOAD $MAINT TO CREATE
*** SOURCE AND PROCEDURE MEMBERS THAT WILL COMPLETE THE CCP GENERATION
*
// LOAD $MAINT,F1
// FILE NAME-$SOURCE,UNIT-F2,PACK-F2F2F2,RETAIN-S,SHARE-NO
// RUN
// COPY FROM-DISK,TO-R1,RECL-96,RETAIN-R,FILE-$SOURCE
XX COPY NAME-$CC1FC,LIBRARY-P
XX COPY NAME-$CC1FC,LIBRARY-S
XX COPY NAME-$CC1LC,LIBRARY-P
XX COPY NAME-$CC1#1,LIBRARY-P
XX COPY NAME-$CC1#1,LIBRARY-S
XX COPY NAME-$CC1#A,LIBRARY-P
XX COPY NAME-$CC1L1,LIBRARY-P
XX COPY NAME-$CC1VT,LIBRARY-P
XX COPY NAME-$CC1VT,LIBRARY-S
XX COPY NAME-$CC1VS,LIBRARY-P
XX COPY NAME-$CC1#2,LIBRARY-P
XX COPY NAME-$CC1#2,LIBRARY-S
XX COPY NAME-$CC1#B,LIBRARY-P
XX COPY NAME-$CC1LE,LIBRARY-P
XX COPY NAME-$CC1BT,LIBRARY-P
XX COPY NAME-$CC1C1,LIBRARY-P
XX COPY NAME-$CC1C3,LIBRARY-P
XX COPY NAME-$CC1AS,LIBRARY-P
XX COPY NAME-$CC1RG,LIBRARY-P
XX COPY NAME-$CC1ND,LIBRARY-P
XX COPY NAME-$CC1BF,LIBRARY-P
XX COPY NAME-$CC1DP,LIBRARY-P
XX COPY NAME-$CCPSA,LIBRARY-P
XX END
// END

```

```

00308
05020
05030
05040
05050
05060
++05070
###$05080
05090
05100
CCP00000
CCP00022
CCP00106
CCP00123
CCP00135
CCP00176
CCP00189
CCP00210
CCP00220
CCP00230
CCP00244
CCP00254
CCP00295
CCP00308
CCP00325
CCP00341
CCP00364
CCP00384
CCP00394
CCP00403
CCP00414
CCP00426
CCP00441
CCP00463

```

1 CT EJ I
PROGRAM END

\$MAINT01

```

*
// READER CONSOLE
// CALL $CCPSA,R1

*** PERFORM CCP GENERATION PASS 2 ***
*
XX CALL $CC1FC,R1          *** ASSEMBLE $CC1FC
*   --- PREPARE THE INITIAL CONTENTS OF $CCPFILE ---
*
*** FIRST, USE THE SCP GENERATOR TO CONVERT THE CONTENTS OF THE
*** CCP CONFIGURATION RECORD AND THE ASSIGNMENT DIRECTORY TO ENCODED
*** FORM -- SAVE THIS ENCODED INFORMATION AS A RELOCATABLE MODULE
*** NAMED $CC1FC -- THE INFORMATION WILL LATER BE WRITTEN TO THE
*** FIRST TWO SECTORS OF $CCPFILE AS THE CCP CONFIGURATION RECORD
*** AND THE ASSIGNMENT SET DIRECTORY
*
XX NOHALT
XX LOAD $CGDRV,R1
XX SWITCH 0XXXXXXXX
XX FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-10,RETAIN-S,
XX   SHARE-NO
XX FILE NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-5,RETAIN-S,
XX   SHARE-NO
XX FILE NAME-$WORK2,UNIT-D1,PACK-PID001,TRACKS-5,RETAIN-S,
XX   SHARE-NO
XX COMPILE UNIT-R1,SOURCE-$CC1FC
XX RUN
// RUN $CCPSA,R1

```

```

CCP00442
CCP00443
CCP00444
CCP00001
CCP00002
CCP00003
CCP00004
CCP00005
CCP00006
CCP00007
CCP00008
CCP00009
CCP00010
CCP00011
CCP00012
CCP00013
CCP00014
CCP00015
CCP00016
CCP00017
CCP00018
CCP00019
CCP00020

```

\$CC1FC

EXTERNAL SYMBOL LIST

SYMBOL TYPE

SCP GENERATOR 08/08/10 PAGE 1

\$CC1FC MODULE

\$CC1BF EXTRN

\$CC1FC CCP CONFIGURATION RECORD AND DIRECTORY

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	2
0000			2	\$CC1FC	START 0	MODULE NAME			CCP00024
		0001	3		EXTRN \$CC1BF	REFERENCE TO MODULE WHICH INITIS			CCP00025

\$CC1FC CCP CONFIGURATION RECORD AND DIRECTORY

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	3
			5		*****				CCP00027
			6	*	C C P C O N F I G U R A T I O N R E C O R D				* CCP00028
			7		*****				CCP00029
			9	*	THIS SET OF 256 BYTES -- A SECTOR ON DISK -- INDICATES TO CCP THOSE				CCP00031
			10	*	DEVICES AND SYSTEM FACILITIES YOU SPECIFIED DURING CCP GENERATION				CCP00032
0000	EBD7	0001	12	CFGVRF DC	XL2'EBD7'			TWO BYTES *ALWAYS* HEX 'EBD7'	CCP00034
0002	00	0002	14	CFGCA1 DC	BL1'00000000'			BSCC FACILITIES BYTE ONE	CCP00036
0003	00	0003	15	CFGCA2 DC	BL1'00000000'			FACILITIES BYTE TWO	CCP00037
0004	1E	0004	16	CFGRSM DC	XL1'1E'			RECORD SEPARATOR BYTE (BSCC)	CCP00038
0005	00	0005	17	CFGYD1 DC	BL1'00000000'			BSCC DEVICES--BYTE 1	CCP00039
0006	00	0006	18	CFGYD2 DC	BL1'00000000'			BSCC DEVICES--BYTE 2	CCP00040
0007	00	0007	19	CFGTP1 DC	AL1(0)			NUMBER OF BSCC LINES	CCP00041
0008	10	0008	21	CFGFA2 DC	BL1'00010000'			FACILITIES--BYTE 2	CCP00043
0009	00	0009	22	CFGFLA DC	BL1'00000000'			CCP FLAG A	CCP00044
000A	C8	000A	23	CFGDPQ DC	XL1'C8'			Q-BYTE OF \$CCPDUMP FILE	CCP00045
000B	30	000B	24	CFGPLG DC	BL1'00110000'			PROGRAMMING LANGUAGES SUPPORTED	CCP00046
000C	00C7	000D	26	CFGCB0 DC	XL2'00C7'			CONSOLE INTERRUPT BRANCH OFFSET	CCP00048
000E	404040404040	0013	27	CFGESC DC	CL6' '			*NO* DATA MODE ESCAPE STRING	CCP00049
0014	0000	0015	28	CFGLUS DC	IL2'0'			LENGTH OF USER SECURITY DATA	CCP00050
0016	00000000	0019	29	CFGRV3 DC	4XL1'00'			*RESERVED*	CCP00051
001A	03	001A	31	CFGNS DC	IL1'3'			MAX NUMBER SETS	CCP00053
001B	000F	001C	32	CFGNPM DC	IL2'15'			MAX NUMBER PROGRAMS	CCP00054
001D	05	001D	33	CFGNDF DC	IL1'5'			MAX NUMBER DISK FILES	CCP00055
001E	05	001E	34	CFGNT DC	IL1'5'			MAX NUMBER TERMINALS	CCP00056
001F	02	001F	35	CFGDMP DC	IL1'2'			MAX NUMBER CORE DUMPS	CCP00057
0020	0400	0021	36	CFGSC DC	IL2'1024'			MEMORY # SECTORS (384-2048)	CCP00058
0022	000000	0024	37	CFGRV4 DC	3XL1'00'			*RESERVED*	CCP00059
0025	01	0025	39	CFGTP DC	AL1(16*0+1)			NUMBER COMMUNICATIONS LINES	CCP00061
0026	00	0026	41	CFGMD1 DC	BL1'00000000'			MLTA DEVICES--BYTE 1	CCP00063
0027	00	0027	42	CFGMD2 DC	BL1'00000000'			MLTA DEVICES--BYTE 2	CCP00064
0028	00	0028	43	CFGMD3 DC	BL1'00000000'			MLTA DEVICES--BYTE 3	CCP00065
0029	0000	002A	44	CFGRV5 DC	2XL1'00'			*RESERVED*	CCP00066
002B	00	002B	45	CFGMXC DC	BL1'00000000'			MLTA TRANSMISSION CODES	CCP00067
002C	0000	002D	46	CFGRV6 DC	2XL1'00'			*RESERVED*	CCP00068
002E	20	002E	48	CFGBLT DC	BL1'00100000'			BSC LINE TYPES SUPPORTED	CCP00070
002F	24	002F	49	CFGBFA DC	BL1'00100100'			BSC FACILITIES	CCP00071
0030	80	0030	50	CFGBF1 DC	BL1'10000000'			BSC FACILITIES CONTINUED	CCP00072
0031	00	0031	51	CFGRV7 DC	1XL1'00'			*RESERVED*	CCP00073
0032	1E	0032	52	CFGRSB DC	XL1'1E'			RECORD SEPARATOR BYTE (BSCA)	CCP00074
0033	44	0033	53	CFGBD1 DC	BL1'01000100'			BSCA DEVICES--BYTE 1	CCP00075
0034	00	0034	54	CFGBD2 DC	BL1'00000000'			BSCA DEVICES--BYTE 2	CCP00076
0035	FFFFFFFFFFFFFFFF	00FF	57	DC	203XL1'FF'			FILLED WITH HEX 'FF'	CCP00079
003D	FFFFFFFFFFFFFFFF		57						
0045	FFFFFFFFFFFFFFFF		57						

\$CC1FC CCP CONFIGURATION RECORD AND DIRECTORY

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 4

004D	FFFFFFFFFFFFFFFF	57
0055	FFFFFFFFFFFFFFFF	57
005D	FFFFFFFFFFFFFFFF	57
0065	FFFFFFFFFFFFFFFF	57
006D	FFFFFFFFFFFFFFFF	57
0075	FFFFFFFFFFFFFFFF	57
007D	FFFFFFFFFFFFFFFF	57
0085	FFFFFFFFFFFFFFFF	57
008D	FFFFFFFFFFFFFFFF	57
0095	FFFFFFFFFFFFFFFF	57
009D	FFFFFFFFFFFFFFFF	57
00A5	FFFFFFFFFFFFFFFF	57
00AD	FFFFFFFFFFFFFFFF	57
00B5	FFFFFFFFFFFFFFFF	57
00BD	FFFFFFFFFFFFFFFF	57
00C5	FFFFFFFFFFFFFFFF	57
00CD	FFFFFFFFFFFFFFFF	57
00D5	FFFFFFFFFFFFFFFF	57
00DD	FFFFFFFFFFFFFFFF	57
00E5	FFFFFFFFFFFFFFFF	57
00ED	FFFFFFFFFFFFFFFF	57
00F5	FFFFFFFFFFFFFFFF	57
00FD	FFFFFF	57

\$CC1FC CCP CONFIGURATION RECORD AND DIRECTORY

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	5
			59	*****				CCP00081
			60	* \$ C C P F I L E D I R E C T O R Y *				CCP00082
			61	*****				CCP00083
			63	* THIS SET OF 256 BYTES -- A SECOND SECTOR ON DISK -- SERVES AS A				CCP00085
			64	* DIRECTORY TO THE CONTENTS OF THIS FILE FOR THE CCP ASSIGNMENT AND				CCP00086
			65	* STARTUP PROGRAMS -- EACH FIELD IS INITIALLY ZERO				CCP00087
0100	00	0100	67	DIRNSA DC IL1'0'	CURRENT NUMBER ASSIGNMENT SETS			CCP00089
0101	0000	0102	68	DIRRS1 DC IL2'0'	* RESERVED *			CCP00090
0103	000000	0105	69	DIRDAT DC XL3'000000'	DATE LAST MODIFIED			CCP00091
0106	00	0106	70	DIRDID DC XL1'00'	EXECUTION DEFAULT SET			CCP00092
0107	00	0107	71	DIRNFX DC XL1'00'	*** UNUSED ***			CCP00093
0108	0000	0109	72	DIRRS2 DC IL2'0'	* RESERVED *			CCP00094
010A	00	010A	73	DIRRS3 DC IL1'0'	* RESERVED *			CCP00095
010B	0000	010C	74	DIRBD@ DC XL2'0000'	LOCATION BEGIN DUMP AREA			CCP00096
010D	0000	010E	75	DIRED@ DC XL2'0000'	LOCATION END DUMP AREA			CCP00097
010F	0000	0110	76	DIRRS5 DC XL2'0000'	* RESERVED *			CCP00098
			78	* ASSIGNMENT SET DIRECTORY ENTRIES START HERE				CCP00100
0111	FFFFFFFFFFFFFFFF	01FF	80	DC 239XL1'FF'	INITIALLY UNUSED PORTION			CCP00102
0119	FFFFFFFFFFFFFFFF		80					
0121	FFFFFFFFFFFFFFFF		80					
0129	FFFFFFFFFFFFFFFF		80					
0131	FFFFFFFFFFFFFFFF		80					
0139	FFFFFFFFFFFFFFFF		80					
0141	FFFFFFFFFFFFFFFF		80					
0149	FFFFFFFFFFFFFFFF		80					
0151	FFFFFFFFFFFFFFFF		80					
0159	FFFFFFFFFFFFFFFF		80					
0161	FFFFFFFFFFFFFFFF		80					
0169	FFFFFFFFFFFFFFFF		80					
0171	FFFFFFFFFFFFFFFF		80					
0179	FFFFFFFFFFFFFFFF		80					
0181	FFFFFFFFFFFFFFFF		80					
0189	FFFFFFFFFFFFFFFF		80					
0191	FFFFFFFFFFFFFFFF		80					
0199	FFFFFFFFFFFFFFFF		80					
01A1	FFFFFFFFFFFFFFFF		80					
01A9	FFFFFFFFFFFFFFFF		80					
01B1	FFFFFFFFFFFFFFFF		80					
01B9	FFFFFFFFFFFFFFFF		80					
01C1	FFFFFFFFFFFFFFFF		80					
01C9	FFFFFFFFFFFFFFFF		80					
01D1	FFFFFFFFFFFFFFFF		80					
01D9	FFFFFFFFFFFFFFFF		80					
01E1	FFFFFFFFFFFFFFFF		80					
01E9	FFFFFFFFFFFFFFFF		80					
01F1	FFFFFFFFFFFFFFFF		80					
01F9	FFFFFFFFFFFFFFFF		80					

\$CC1FC CCP CONFIGURATION RECORD AND DIRECTORY

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	6
		0000	82	END	\$CC1FC				CCP00104

\$CC1FC

CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 7

\$CC1BF	001	0001	0003	
\$CC1FC	001	0000	0002	0082
CFGBD1	001	0033	0053	
CFGBD2	001	0034	0054	
CFGBFA	001	002F	0049	
CFGBF1	001	0030	0050	
CFGBLT	001	002E	0048	
CFGCA1	001	0002	0014	
CFGCA2	001	0003	0015	
CFGCBO	002	000D	0026	
CFGDMP	001	001F	0035	
CFGDPQ	001	000A	0023	
CFGESC	006	0013	0027	
CFGFA2	001	0008	0021	
CFGFLA	001	0009	0022	
CFGFLUS	002	0015	0028	
CFGMD1	001	0026	0041	
CFGMD2	001	0027	0042	
CFGMD3	001	0028	0043	
CFGMXC	001	002B	0045	
CFGNDF	001	001D	0033	
CFGNPM	002	001C	0032	
CFGNS	001	001A	0031	
CFGNT	001	001E	0034	
CFGPLG	001	000B	0024	
CFGRSB	001	0032	0052	
CFGRSM	001	0004	0016	
CFGRV3	001	0019	0029	
CFGRV4	001	0024	0037	
CFGRV5	001	002A	0044	
CFGRV6	001	002D	0046	
CFGRV7	001	0031	0051	
CFGSC	002	0021	0036	
CFGTP	001	0025	0039	
CFGTP1	001	0007	0019	
CFGVRF	002	0001	0012	
CFGYD1	001	0005	0017	
CFGYD2	001	0006	0018	
DIRBD@	002	010C	0074	
DIRDAT	003	0105	0069	
DIRDID	001	0106	0070	
DIRED@	002	010E	0075	
DIRNFX	001	0107	0071	
DIRNSA	001	0100	0067	
DIRRS1	002	0102	0068	
DIRRS2	002	0109	0072	
DIRRS3	001	010A	0073	
DIRRS5	002	0110	0076	

TOTAL STATEMENTS IN ERROR IN THIS GENERATION-- 0

OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 3
NAME-\$CC1FC,PACK-R2R2R2,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000
OL105 I THE CODE LENGTH OF \$CC1FC IS 512 DECIMAL.

1 CT EJ I
PROGRAM END

\$CGDRV01

XX	CALL	\$CC1LC,R1	*** CREATE R-MODULE \$CC1FC	CCP00445
***	USE THE OVERLAY LINKAGE EDITOR TO JOIN THE ABOVE MODULE WITH			CCP00107
***	ANOTHER MODULE CAPABLE OF WRITING THE INFORMATION TO \$CCPFILE --			CCP00108
***	SAVE THE RESULTING LOAD MODULE \$CC1BF ON THE DISTRIBUTION PACK			CCP00109
***	FOR LATER INITIALIZATION OF \$CCPFILE			CCP00110
*				CCP00111
XX	LOAD	\$OLINK,F1		CCP00112
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,TRACKS-10,RETAIN-S,		CCP00113
XX		SHARE-NO		CCP00114
XX	FILE	NAME-\$WORK,UNIT-D1,PACK-PID001,TRACKS-10,RETAIN-S,		CCP00115
XX		SHARE-NO		CCP00116
XX	RUN			CCP00117
//	PHASE	NAME-\$CC1BF,UNIT-R1,RETAIN-R,LINKADD-X'4000'		CCP00118
//	OPTIONS	ENTRY-EXECBF,LEVEL-4		CCP00119
//	INCLUDE	NAME-'\$CC1FC,\$CC1BF',UNIT-R1		CCP00120
//	END			CCP00121

START ADDRESS	CATEGORY	NAME AND ENTRY	CODE LENGTH	
			HEXADECIMAL	DECIMAL
4000	0	\$CC1FC	0200	512
4200	0	\$CC1BF	03DF	991
4205		EXECBF		

OL100 I THE TOTAL CORE USED BY \$CC1BF IS 1503 DECIMAL.
 OL107 I THE PARTITION SIZE REQUIRED TO EXECUTE THIS PROGRAM IS 08K.
 OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 4205.
 OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 7
 NAME-\$CC1BF,PACK-R2R2R2,UNIT-R1,RETAIN-P,LIBRARY-O

1 CT EJ I
PROGRAM END

ŞOLINK01

XX	CALL	\$CC1#1,R1	*** EXPAND \$CC4#1 MOCROS	CCP00446
*	---	CREATE THE EXECUTION STAGE RESIDENT MODULES	---	CCP00124
*				CCP00125
***	USE THE MACRO PROCESSOR TO EXPAND SOURCE CODE OF THE FIRST			CCP00126
***	OF THE RESIDENT MODULES - \$CC4#1			CCP00127
*				CCP00128
XX	LOAD	\$MPXDV,R1		CCP00129
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,TRACKS-130,RETAIN-T,		CCP00130
XX		SHARE-NO		CCP00131
XX	COMPILE	UNIT-R1,SOURCE-\$CC1#1		CCP00132
XX	RUN			CCP00133

1 CT EJ I
PROGRAM END

\$MPXDV01

XX	CALL	\$CC1#A,R1	*** ASSEMBLE \$CC4#1	CCP00447
***	USE THE SCP GENERATOR TO PROCESS THIS SOURCE CODE INTO A			CCP00177
***	RELOCATABLE MODULE			CCP00178
*				CCP00179
XX	LOAD	\$CGDRV,R1		CCP00180
XX	SWITCH	1XXXXXXX		CCP00181
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,RETAIN-S,SHARE-NO		CCP00182
XX	FILE	NAME-\$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,		CCP00183
XX		SHARE-NO		CCP00184
XX	FILE	NAME-\$WORK2,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,		CCP00185
XX		SHARE-NO		CCP00186
XX	RUN			CCP00187

\$CC4#1

EXTERNAL SYMBOL LIST

SCP GENERATOR 08/08/10 PAGE 1

SYMBOL TYPE

\$CC4#1	MODULE
\$CCCOM	ENTRY
\$CC4II	ENTRY
IISTNT	ENTRY
IIBTCB	ENTRY
IIVLNN	ENTRY
IIVLNP	ENTRY
IIIOL	ENTRY
IIVLNI	ENTRY
IIINRT	ENTRY
IINDPD	ENTRY
IIIREQ	ENTRY
IIUPST	ENTRY
IIREND	ENTRY
IITEND	ENTRY
IINDFE	ENTRY
IIQSUB	ENTRY
\$CC4IS	ENTRY
ISREQ1	ENTRY
IIVTBL	ENTRY
\$CC4TR	EXTRN
\$CC4TX	EXTRN
\$CC4MS	EXTRN
\$CC4GM	EXTRN
\$CC4FM	EXTRN
\$CC4MX	EXTRN
\$CC4MV	EXTRN
\$CC4SR	EXTRN
CC4TI2	EXTRN
\$CC4CP	EXTRN
\$CC4TM	EXTRN
\$CCINT	EXTRN
\$CCTI2	EXTRN
\$CC4IG	EXTRN
XSNT1	EXTRN
XSNT2	EXTRN
XSNT3	EXTRN
\$CC4TI	EXTRN
CC4TH	EXTRN
XSNTHT	EXTRN
\$CC4PI	EXTRN
\$CC4OC	EXTRN
ADDRS1	EXTRN
\$CC4V1	EXTRN

\$CC4#1 BEGIN CCP SYSTEM CONTROL MODULE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	2
4600		2	\$CC4#1	START	X'4600'	CCP SYSTEM CONTROL MODULE			CCP00137
		3	*	\$E000	#M-0,#B-1,DF-0,DE-0,MS-0,RF-0,RS-0				CCP00138
		4	*	\$E001	PC-0,SO-10,RR-0,MVT-0,MOV-0				CCP00139
		5	*	\$E002	ML-00,MT-000,MF-0,MS-0				CCP00140
		6	*	\$E003	BL-0010,BF-00100100,BT-0100010000000000,INP-1,BIA-1,BY-0				CCP00141
		7	*	\$E004	CS#-0,CSI-0,CT-0000000000000000,CSF-00000000,SIOC-0				CCP00142
		8	*	\$E005	AP-0,CP-0,TK-0,PP-0,CS-0				CCP00143

\$CC4#1 EQUATES -- COMMON VALUES

CCP00145

10 * \$EEQU
 11+*****
 12+* COMMON SYMBOLS *
 13+*****

15+* EQUATES FOR BITS WITHIN A BYTE

0080	16+BIT0	EQU	X'80'	BIT X... ..
0040	17+BIT1	EQU	X'40'	BIT .X.. ..
0020	18+BIT2	EQU	X'20'	BIT ..X.
0010	19+BIT3	EQU	X'10'	BIT ...X
0008	20+BIT4	EQU	X'08'	BIT X...
0004	21+BIT5	EQU	X'04'	BITX..
0002	22+BIT6	EQU	X'02'	BITX.
0001	23+BIT7	EQU	X'01'	BITX

0000	25+NOBIT	EQU	X'00'	*NO* BITS ON WITHIN BYTE
00FF	26+ALLBIT	EQU	X'FF'	*ALL* BITS WITHIN BYTE

28+* SYSTEM DETECTED ERROR CONDITIONS *

0000	29+TIFE	EQU	0	FREEMAIN ERROR
0001	30+TIBC	EQU	TIFE+1	BAD START CODE
0002	31+TIRC	EQU	TIBC+1	BAD RETURN CODE
0003	32+TITR	EQU	TIRC+1	TRANSLATE ERROR
0004	33+TIYA	EQU	TITR+1	NO USER SECURITY
0005	34+TIAC	EQU	TIYA+1	ADAPTER CHECK
0006	35+TISS	EQU	TIAC+1	BAD SENSE STATUS
0007	36+TICS	EQU	TISS+1	PERMANENT BSCC ERROR
0008	37+TICR	EQU	TICS+1	INVALID BSCC RETURN CODE
0009	38+TINS	EQU	TICR+1	STATUS NOT RECEIVED FROM 3270

0080	40+WAIT	EQU	BIT0	WAIT BIT IN ECB
0040	41+POST	EQU	BIT1	POST BIT IN ECB
0020	42+SKIP	EQU	BIT2	SKIP BIT IN ECB

44+* REGISTER EQUATES

0001	45+XR1	EQU	1	INDEX REGISTER ONE
0002	46+XR2	EQU	2	INDEX REGISTER TWO
0004	47+PSR	EQU	4	PROGRAM STATUS REGISTER
0008	48+ARR	EQU	8	ADDRESS RECALL REGISTER
0010	49+IAR	EQU	16	PROGRAM LEVEL IAR
0030	50+PMR	EQU	48	PROGRAM MODE REGISTER
0040	51+LCPPMR	EQU	64	PROGRAM MODE REG FOR LCP INSTR.

0080	53+LVIIAR	EQU	X'80'	DPF INTERRUPT LEVEL IAR
0090	54+LVMIAR	EQU	X'90'	MLTA INTERRUPT LEVEL IAR
00A0	55+LVBIAR	EQU	X'A0'	BSCA INTERRUPT LEVEL IAR
00C0	56+LVCIAR	EQU	X'C0'	CONSOLE INTERRUPT LEVEL IAR

58+* Q-BYTE EQUATES FOR BRANCH/NOP

0007	59+NOP	EQU	X'07'	NO-OP
0080	60+NOOP	EQU	X'80'	NO-OP
00FF	61+UNCON	EQU	X'FF'	ALWAYS BRANCH
0080	62+BRNOP	EQU	X'80'	BRANCH NO-OP

\$CC4#1 EQUATES -- COMMON VALUES

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	4
		0087	63+BR	EQU	X'87'				ALWAYS BRANCH
		0097	64+BR97	EQU	X'97'				BRANCH AND RESET FALSE BIT
66+* EQUATES FOR MODIFIED FIELDS IN AN INSTRUCTION									
		0000	68+#	EQU	X'00'				ANY FIELD
		0000	69+##	EQU	X'00'				SINGLE-BYTE FIELD
		0000	70+###	EQU	X'00'				ONE- OR TWO-BYTE FIELD
		0000	71+####	EQU	X'0000'				TWO-BYTE FIELD
73+* CONDITION CODE EQUATES									
		0080	74+ANY	EQU	X'80'				IF *ANY* CONDITION HOLDS
		0000	75+NONE	EQU	X'00'				IF *NO* CONDITION HOLDS
		0020	76+BOVFL	EQU	X'20'				BINARY OVERFLOW
		0010	77+FALSE	EQU	X'10'				FALSE
		0008	78+DOVFL	EQU	X'08'				DECIMAL OVERFLOW
		0004	79+HI	EQU	X'04'				FIRST OPERAND HIGH
		0002	80+LO	EQU	X'02'				FIRST OPERAND LOW
		0001	81+EQ	EQU	X'01'				OPERANDS EQUAL
		0070	82+PMRI12	EQU	112				OP2,OP1,I-CYCLE TRANSLATE
		0040	83+PMROP2	EQU	64				OPERAND 2 E-CYCLES TRANSLATION
		0020	84+PMROP1	EQU	32				OPERAND 1 E-CYCLES TRANSLATION
		0010	85+PMRINS	EQU	16				INSTRUCTION-CYCLES TRANSLATION
		0008	86+PMRPRV	EQU	8				PRIVELEGED
		0002	87+PMRPRT	EQU	2				STORAGE PROTECT
		0001	88+PMRINT	EQU	1				MASK INTERRUPTS
90+* EQUATES FOR TYPES OF CCP TRACE ENTRIES									
		00E7	91+TTTRAN	EQU	X'E7'				TRACE ID FOR TRANSIENT CALLS
		00E8	92+TTGETM	EQU	X'E8'				TRACE ID FOR GETMAIN
		00E9	93+TTFREE	EQU	X'E9'				TRACE ID FOR FREEMAIN
		00EA	94+TTMOPN	EQU	X'EA'				TRACE ID FOR TP CHECK ROUTINE
		00EB	95+TTMSIO	EQU	X'EB'				TRACE ID FOR MLTA START IO
		00FB	96+TTBSIO	EQU	X'FB'				TRACE ID FOR BSCA START IO
		00EC	97+TTII	EQU	X'EC'				TRACE ID FOR \$CC4II
		00ED	98+TTIS	EQU	X'ED'				TRACE ID FOR \$CC4IS
		00EE	99+TTIIRT	EQU	X'EE'				RETURN FROM \$CC4II TO USER
		00FC	100+TTDFEN	EQU	X'FC'				TRACE ID FOR ENTRY TO DFF TASK
		00FE	101+TTDFEX	EQU	X'FE'				TRACE ID FOR EXIT FROM DFF TASK

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

CCP00147

103 * \$ECOM ID-0,DF-0
 104+*****
 105+* C O M M U N I C A T I O N S C O N T R O L P R O G R A M *
 106+* C O M M O N A R E A O F F S E T S *
 107+*****

4000 108+TAONE EQU X'4000' LOCATION OF TRANSIENT AREA 1
 4300 109+TATWO EQU TAONE+768 LOCATION OF TRANSIENT AREA 2
 4600 111+\$COMON EQU X'4600' ADDRESS OF CCP COMMON

113+*-----ENTRY POINT ADDRESS DEFINITION-----*

4601 114+@CC4TR EQU \$COMON-1+2 TRANSIENT RETURN ADDRESS
 4603 115+@CC4TX EQU @CC4TR+2 TRANSIENT TRANSFER CONTROL @
 4605 116+@CC4PI EQU @CC4TX+2 1ST LEVEL TRANSIENT INVOCATION @
 4605 117+@CC4TA EQU @CC4TX+2 1ST LEVEL TRANSIENT INVOCATION @
 4607 118+@CC4IS EQU @CC4TA+2 COMMUNICATIONS I/O INTERFACE ADR
 4609 119+@CC4GM EQU @CC4IS+2 GETMAIN ENTRY ADDRESS
 460B 120+@CC4FM EQU @CC4GM+2 FREEMAIN ENTRY ADDRESS
 460D 121+@MLTIO EQU @CC4FM+2 MLTA IOCS ENTRY POINT @.
 460F 122+@MLTOP EQU @MLTIO+2 MLTA OPEN ENTRY POINT @.
 4611 123+@USECW EQU @MLTOP+2 USER SECURITY DATA WORK AREA ADR
 4613 124+@CC4MX EQU @USECW+2 MOVE FOREVER ROUTINE ADDRESS
 4615 125+@C4TI2 EQU @CC4MX+2 PROGRAM TERMINATION INTERFACE @
 4617 126+@CC4TI EQU @C4TI2+2 OTHER TASK TERMINATE ADDRESS
 4619 127+@CC4SR EQU @CC4TI+2 ENTRY ADDRESS IN MOVE ROUTINE
 461B 128+@CC4TH EQU @CC4SR+2 @ TERMINATION INTERFACE
 461D 129+@BTRAC EQU @CC4TH+2 CCP BSCA TRACE ROUTINE
 461F 130+@MTRAC EQU @BTRAC+2 CCP MLTA TRACE ROUTINE

132+*-----TRANSIENT COMMUNICATION AREA-----*

4621 133+SV1TAX EQU @MTRAC+2 TRANSIENT AREA 1 PARAMETER AREA
 4623 134+SV2TAX EQU SV1TAX+2 TRANSIENT AREA 2 PARAMETER AREA

136+*-----ADDRESSES OF SYSTEM TASK CONTROL BLOCKS -----*

4625 137+@CMTCB EQU SV2TAX+2 @ COMMUNICATIONS MANAGEMENT TCB
 4627 138+@DFTCB EQU @CMTCB+2 @ OF DISPLAY FORMAT FACILITY TCB
 4629 139+@TMTCB EQU @DFTCB+2 @ TERMINATION TCB
 462B 140+@CPTCB EQU @TMTCB+2 @ COMMAND PROCESSOR TCB
 462D 141+@AVTCB EQU @CPTCB+2 @ AVAILABLE TCB'S

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 6

143+*----- SYSTEM LEVEL FLAGS -----*

462E	144+\$FLGA	EQU	@AVTCB+1	FIRST SYSTEM LEVEL FLAG BYTE
0080	145+#DFFOK	EQU	BIT0	DFF IS SUPPORTED
0040	146+CPSOB1	EQU	BIT1	SIGN ON PASSWORD REQUIRED
0020	147+CPSOB2	EQU	BIT2	SIGN ON USER PASSWORD REQUIRED
0010	148+CPSHUT	EQU	BIT3	SHUTDOWN HAS BEEN REQUESTED
0008	149+CPSU	EQU	BIT4	STARTUP IS IN PROCESS
0004	150+#EPL	EQU	BIT5	EXT POINT LIST SUPPORTED
0002	151+CPSHD	EQU	BIT6	SHUTDOWN IN PROCESS
0001	152+CPISNW	EQU	BIT7	\$CC4IS IS NOT TO ISSUE WAIT
	153+*			AFTER POSTING \$CC4CM

462F	155+\$FLGB	EQU	\$FLGA+1	SECOND SYSTEM LEVEL FLAG BYTE
0080	156+#SUALL	EQU	BIT0	SUSPEND ALL IN EFFECT
0040	157+#SUINT	EQU	BIT1	SUSPEND INIT IN EFFECT
0020	158+#SUCMD	EQU	BIT2	SUSPEND COMMANDS IN EFFECT
0010	159+CPSHDP	EQU	BIT3	SHUTDOWN IS PENDING
0008	160+#FEHLT	EQU	BIT4	FEHALT IS RUNNING
0004	161+#RESPR	EQU	BIT5	RESIDENT PROGRAM REQUEST GEN'D
0002	162+#CPCAN	EQU	BIT6	CCP CANCEL RECEIVED
0001	163+#PUCNT	EQU	BIT7	PROGRAM USE COUNTING IS ON

4630	165+\$FLGC	EQU	\$FLGB+1	THIRD SYSTEM LEVEL FLAG BYTE
0080	166+#MTRAC	EQU	BIT0	MLTA TRACE IS ON
0040	167+#BTRAC	EQU	BIT1	BSCA TRACE IS ON
0020	168+#NTRAC	EQU	BIT2	NO TRACE FOR CM (INT POLL)
0010	169+#PUTTP	EQU	BIT3	PUT ONLY TP GETMAIN REQUEST
0008	170+#INVPL	EQU	BIT4	INVITE PL GETMAIN REQUEST
0004	171+INTPNO	EQU	BIT5	1=NO INT POLL SUPPORT FOR BSCC
0002	172+INTNSP	EQU	BIT6	1=NO INT POLL SUPPORT FOR BSCA
0001	173+#NTRCS	EQU	BIT7	NO TRACE FOR CS (INT POLL)

175+*----- SYSTEM CONSTANTS -----*

4632	176+X\$0000	EQU	\$FLGC+2	CONSTANT XL2'0000'
4633	177+X\$0001	EQU	X\$0000+1	CONSTANT XL2'0001'
4635	178+X\$0002	EQU	X\$0001+2	CONSTANT XL2'0002'
4637	179+X\$0004	EQU	X\$0002+2	CONSTANT XL2'0004'
4639	180+X\$FFFF	EQU	X\$0004+2	CONSTANT XL2'FFFF'

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	7
			182+*	-----	QUEUE ADDRESS POINTERS	-----			*
463B		183+	@ALOCQ	EQU	X\$FFFF+2				Q OF TASKS WAITING TO BE ALLOC'D
463D		184+	@WATSK	EQU	@ALOCQ+2				ALLOCATE WAIT QUEUE
463F		185+	@QTUBS	EQU	@WATSK+2				@ Q TUB'S WAITING FOR TCB/CORE
4641		186+	@GMWTQ	EQU	@QTUBS+2				@ GETMAIN TCB QUEUE
4643		187+	@DFEQ	EQU	@GMWTQ+2				QUEUE FOR REQUESTS TO DFF TASK
4645		188+	@PRLQ	EQU	@DFEQ+2				@ OF PARAMETER LIST QUED FOR CM
			190+*	-----	LIST ADDRESS POINTERS	-----			*
4647		191+	@TALST	EQU	@PRLQ+2				@ PROGRAM LIST IN \$CC4TA
4649		192+	@TCORG	EQU	@TALST+2				@ OF THE TCB LIST
464B		193+	@ROCAT	EQU	@TCORG+2				ATT @ OF RESIDENT OPEN/CLOSE
464D		194+	@LCB#1	EQU	@ROCAT+2				@ FIRST LCB IN SYSTEM
464F		195+	@TUBQ	EQU	@LCB#1+2				@ OF THE FIRST TUB IN THE SYSTEM
4651		196+	@EPATR	EQU	@TUBQ+2				ATT @ OF EXTERNAL POINTER LIST
4651		197+	@DFCT	EQU	@EPATR				ADDRESS OF SHORT DTF @ LIST
4653		198+	@TNT	EQU	@EPATR+2				@ OF 1ST TERMINAL NAME TABLE ENT
4655		199+	@XDT	EQU	@TNT+2				@ 1ST SYMBOLIC DFCT NAME ENTRY
			201+*	-----	MAIN STORAGE CONTROL BLOCK(TPBUFF)	-----			*
4656		202+	@BUFA	EQU	@XDT-1+2				@ OF FIRST FREE SEGMENT
4659		203+	#NBND	EQU	@BUFA+1+2				RESERVED - MUST BE ZEROS
465B		204+	@LOBND	EQU	#NBND+2				@ LO-BOUND GETMAIN AREA
465D		205+	@HIBND	EQU	@LOBND+2				@ HI-BOUND GETMAIN AREA
465E		206+	#GMS	EQU	@HIBND-1+2				SIZE OF LARGEST FREE SPACE
4661		208+	#TPBUF	EQU	#GMS+1+2				ORIGINAL SIZE OF TPBUFF
4662		209+	@UPA	EQU	#TPBUF+1				USER PROGRAM AREA ATR
4663		210+	#AVCOR	EQU	@UPA+1				# 2K BLOCKS NOT GIVEN TO NEP'S
4665		211+	@PUCNT	EQU	#AVCOR+2				@ PROGRAM USE COUNT TABLE
			213+*	-----	GENERAL AREAS	-----			*
4667		214+	@TUSTG	EQU	@PUCNT+2				@ OF TUB IN STAGING NOW(CP TASK)
4669		215+	@KNTUB	EQU	@TUSTG+2				@ OF CONSOLE TUB
466B		216+	@PTX	EQU	@KNTUB+2				@ OF PCT MASTER INDEX
466D		217+	@PTXCS	EQU	@PTX+2				C/S VALUE OF PCT DISK START
466E		218+	#PCTLN	EQU	@PTXCS+1				LONGEST LEN PCT USED BY PGM RQST
466F		219+	#DFCT	EQU	#PCTLN+1				NO. ENTRIES IN SHORT DTF @ LIST
4670		220+	#SETID	EQU	#DFCT+1				ID OF ASSIGNMENT SET IN USE
4671		221+	#XDT	EQU	#SETID+1				NUMBER OF SYMFILE STATEMENTS
4672		222+	#RSVD1	EQU	#XDT+1				RESERVED AREA - 1 BYTE
4673		223+	@UALFA	EQU	#RSVD1+1				ATR - UNCHANGING START OF UPA
4675		224+	@TKFSB	EQU	@UALFA+2				FSB AREA FOR TCB'S
4676		226+	CPLPWD	EQU	@TKFSB+1				LENGTH OF SIGN ON PASSWORD
467C		227+	CPPSWD	EQU	CPLPWD+6				CCP SIGN ON PASSWORD
			229+*	-----	CCP DUMP AREA DISK ADDRESSES	-----			*
467D		230+	#DUMPQ	EQU	CPPSWD+1				Q-BYTE OF \$CCPDUMP FILE UNIT
467F		231+	@CPDMP	EQU	#DUMPQ+2				DISK ADDRESS OF \$CCPDUMP FILE
4682		232+	@NDUMP	EQU	@CPDMP+3				DISK ADDRESS OF NEXT DUMP

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	8
		467E	233+	@DSTRT	EQU	CPPSWD+2			DUMP AREA START C/S
		4680	234+	@DEND	EQU	@DSTRT+2			DUMP AREA END C/S
		4682	235+	@DNEXT	EQU	@DEND+2			DUMP AREA NEXT ENTRY C/S
		4683	236+	#CPFLQ	EQU	@NDUMP+1			\$CCPFILE DEVICE Q-BYTE

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 9

238+*----- FIXED LOCATIONS OF RESIDENT CODE -----*

4684	239+CC4TA	EQU	#CPFLQ+1	LOAD IAR OF @CC4TA
4684	240+CC4PI	EQU	CC4TA	LOAD IAR OF @CC4PI (@CC4TA)
4688	241+CC4IS	EQU	CC4TA+4	LOAD IAR OF @CC4IS
468C	242+CC4GM	EQU	CC4IS+4	LOAD IAR OF @CC4GM
4690	243+CC4FM	EQU	CC4GM+4	LOAD IAR OF @CC4FM
4694	244+USECW	EQU	CC4FM+4	LOAD IAR OF @USECW
4698	245+CC4MX	EQU	USECW+4	LOAD IAR OF @CC4MX
469C	246+C4TI2	EQU	CC4MX+4	LOAD IAR OF @C4TI2
46A0	247+CC4TI	EQU	C4TI2+4	LOAD IAR OF @CC4TI
46A4	248+CC4TT	EQU	CC4TI+4	LOAD IAR OF \$TRACE(X'004C')
46A8	249+CC4SR	EQU	CC4TT+4	LOAD IAR OF @CC4MV
46AC	250+CC4FR	EQU	CC4SR+4	LOAD IAR OF @CC4FR
46B1	251+@CC4FR	EQU	CC4FR+3+2	@ OF \$CC4FR IN CM
46B3	252+@CC4II	EQU	@CC4FR+2	@ OF \$CC4II

254+*----- MAINTENANCE SPACE ----- 2 BYTES -----*

46B6	256+\$END1	EQU	@CC4II+2+1	END OF MAINTENANCE SPACE
------	------------	-----	------------	--------------------------

258+*----- WORK AREAS LENGTHS DEFINITIONS -----*

000F	259+#LDFWK	EQU	15	LENGTH DFF WORK AREA
0032	260+#LCPWK	EQU	50	LENGTH COMND PROCESSOR WORK AREA
0009	261+#LAMWK	EQU	9	LENGTH ALLOCATION WORK AREA
0018	262+#LTMWK	EQU	24	LENGTH TERMINATION WORK AREA
002D	263+#LCMWK	EQU	45	LENGTH COMMO MGMT WORK AREA
008F	264+#LWKWK	EQU	143	LENGTH-SUM OF ALL WORK AREAS

266+*----- CONSOLE TUB AND PARAMETER LIST -----*

4745	267+KNTUB	EQU	\$END1+#LWKWK	FIXED LOCATION OF CONSOLE TUB
476C	268+KNPL	EQU	KNTUB+39	CONSOLE PARAMETER LIST

270+*----- SHUTDOWN FIELDS -----*

477F	271+SHDECB	EQU	KNPL+19	SHUTDOWN'S ECB
4784	272+FEHLT@	EQU	SHDECB+2+3	ADDRESS OF FE HALT ROUTINE
478F	273+SHDSAV	EQU	FEHLT@+11	CM TCB FIELDS SAVE AREA

275+*----- CM FIELDS AND MAINTENANCE SPACE -----*

4790	276+#CMTRL	EQU	SHDSAV-10+11	CM'S TRANSLATE PARAMETER LIST
4790	277+#CMMVL	EQU	#CMTRL	CM'S MOVE PARAMETER LIST
479E	279+PLTIME	EQU	#CMMVL+10+4	POLL TIME FOR CM
47A1	280+WATIME	EQU	PLTIME+3	WAIT TIME FOR CM
47A2	281+SAVLOP	EQU	WATIME+1	SAVE AREA FOR POLL LOOP COUNT
47A4	282+@CCPTB	EQU	SAVLOP+2	ADDRESS OF CCP PARTITION TCB
47A6	283+#TPPUT	EQU	@CCPTB+2	LENGTH OF PUT AREA OF TPBUFFER
47A8	284+#TPANY	EQU	#TPPUT+2	LENGTH OF COMMON TPBUFFER AREA
47A9	285+#ANYS	EQU	#TPANY+1	SIZE OF LARGEST COMMON AREA
47AB	286+CORCNT	EQU	#ANYS+2	NUMBER OF PL WAITING ON CORE

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT

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4800 287+@TMIOB EQU X'4800'

LOCATION OF SHUTDOWN TIMER IOB

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

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ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          SCP GENERATOR  08/08/10  PAGE  11

      289+***** COMMAND PROCESSOR WORK AREA          50 BYTES*****
46C5  290+$CPWK EQU  $END1+#LDFWK          START OF COMMAND
46C5  291+$CP EQU  $CPWK                    PROCESSOR'S WORK AREA

      293+*----- COMMAND PROCESSOR ECB LIST -----*
46CA  294+$CPLST EQU  $CP+5                ECB LIST.  DEFINED AS FOLLOWS:
      295+* DC  AL2(@TMECB)                SHUTDOWN TIMER ECB
      296+* DC  AL2($CPQ)                  PROGRAM INITIATE-POSTED BY TERM
      297+* DC  AL2($CPPF9)                PF9 - PROGRAM REQUEST
      298+* DC  AL2($CPCM)                 DATA IN TP BUFFER FOR CP
      299+* DC  AL2($CPOCC)                OCC
      300+* DC  AL2($CP1ST/$CPWTO/65535)   STARTUP/WTOR/LIST DELIMITER
      301+* DC  XL2'FFFF'                  LIST DELIMITER

0001  303+#CPTMR EQU  1                    OFFSET TO TIMER ECB @
0003  304+#CPCPQ EQU  3                    OFFSET TO PROG INIT ECB @
0005  305+#CPPF9 EQU  5                    OFFSET TO PF9 ECB @
0007  306+#CPCM EQU  7                    OFFSET TO CM ECB @
0009  307+#CPOCC EQU  9                    OFFSET TO OCC ECB @
000B  308+#CP1ST EQU  11                   OFFSET TO 1ST ECB @
000B  309+#CPWTO EQU  11                   OFFSET TO WTO ECB @
000D  310+#CPEND EQU  13                   OFFSET TO END OF @ LIST

      312+*----- COMMAND PROCESSOR ECB'S -----*
4807  313+@TMECB EQU  @TMIOB+7            TIMER ECB LOCATION IN IOB
46D8  314+$CPQ EQU  $CP+19                PROGRAM INITIATE-POSTED BY TERM
46DB  315+$CPPF9 EQU  $CP+22              PF9 - PROGRAM REQUEST
46DE  316+$CPCM EQU  $CP+25              DATA IN TP BUFFER FOR CP
0048  317+$CPOCC EQU  X'0048'            OCC - IN THE DSM NUCLEUS
46E1  318+$CP1ST EQU  $CP+28             FIRST TIME SWITCH
0000  319+$CPWTO EQU  0                    WTO - GETMAINED FOR IN TPBUFF

      321+*----- COMMAND PROCESSOR FLAG BYTE -----*
46E2  322+$CPFLG EQU  $CP+29             COMMAND PROCESSOR FLAG BYTE
0080  323+$CPFR EQU  BIT0                 FREEMAIN TO BE DONE
0010  324+$CPCFR EQU  BIT3               FREE NEEDED FOR CONSOLE OCC
0008  325+$CPDPG EQU  BIT4               PAGE 1 OF DISPLAY DONE
0004  326+$CPD1S EQU  BIT5               DO SECONDARY MENU
0002  327+$CPPAS EQU  BIT6               ASSIGNMENT/SHUTDOWN INTERLOCK
0001  328+$CPFND EQU  BIT7               ASSIGNMENT/CCPFMT/CCPPGM INTLK

      330+*----- COMMAND PROCESSOR TASK TRANSIENT COMMUNICATION AREA -----*
46E3  331+$CPPRQ EQU  $CP+30             LABEL FOR PROGRAM REQUEST

46E3  333+$CPCOM EQU  $CP+30             LABEL FOR COMMANDS
46E4  334+$CPRTC EQU  $CP+31             SAVE AREA FOR PLRTC
46E6  335+$CPEFL EQU  $CP+33             SAVE AREA FOR PLEFFL
46E8  336+$CPRCA EQU  $CP+35             SAVE AREA FOR PLRECA

      338+*----- STARTUP VALUES - VALID ONLY DURING STARTUP -----*
46E5  339+$CPMSG EQU  $CP+32             ADDRSS OF $CC4IG
46E7  340+#LSTSZ EQU  $CPMSG+1+1        # ENTRIES IN FIRST LEVEL LIST
46E9  341+@XSNT1 EQU  #LSTSZ+2          ENTRIES IN $CC4PI

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\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	12
		46EB	342+	@XSNT2	EQU @XSNT1+2				FOR START-UP
		46ED	343+	@L1TCB	EQU @XSNT2+2				SWITCHED LCB TCB @ FOR LINE 1
		46EF	344+	@L2TCB	EQU @L1TCB+2				SWITCHED LCB TCB @ FOR LINE 2

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346+***** ALLOCATION WORK AREA          9 BYTES*****
46F7 347+$AMWK EQU $END1+#LDFWK+#LCPWK  START OF ALLOCATION
46F7 348+$AM   EQU $AMWK                WORK AREA

46F7 350+$AMFLG EQU $AM                 ALLOCATION FLAG BYTE
0080 351+$AMBSY EQU BIT0                1--ALLOCATION BUSY
0040 352+$APEND EQU BIT1                1--ALLOCATION TASK POST PENDING
0020 353+$AMDFE EQU BIT2                NON-RESIDENT DFE ALOC IN PROCESS
0010 354+$AMA1  EQU BIT3                U/R DEVICE ALLOCATION IN PROCESS
0008 355+$AMA2  EQU BIT4                REJECT IN PROCESS
0004 356+$AMPF9 EQU BIT5                CONSOLE TUB IN USE FOR PROGRAM
0002 357+$AMERR EQU BIT6                ALLOCATION REJECT IN PROCESS

46F8 359+$AMUR  EQU $AMFLG+1           CCP LEVEL AND SPOOLING DEVICES.
0080 360+A1SPLV EQU BIT0                1=CCP IS IN LEVEL 1.
361+*                                0=CCP IS IN LEVEL 2.
0040 362+A1PTRS EQU BIT1                PRINTER IS SPOOLED FOR CCP LVL.
363+*                                MFCU/M SEC IS SPOOL RDR FOR CCP
364+*                                MFCU/M SEC IS SPOOL PCH FOR CCP
0008 365+A1741S EQU BIT4                3741 IS SPOOLED READER FOR CCP
0004 366+A1501S EQU BIT5                2501 IS SPOOLED READER FOR CCP
367+*                                MFCU/M PRI IS SPOOL RDR FOR CCP
368+*                                MFCU/M PRI IS SPOOL PCH FOR CCP
46F9 369+$AMPA  EQU $AMUR+1           PERM ALOC AND SPOOLED UR
370+*                                DEVICES FOR CCP.
371+*PCTPRS                                BIT0                1=WILL SHARE PRINTER.
372+*PCT41I                                BIT1                1=3741 IS PERMANENTLY ALLOCATED
373+*PCT501                                BIT2                1=2501 IS PERM ALLOCATED.
374+*PCTPRT                                BIT3                1=PRINTER IS PERM ALLOCATED.
375+*PCT142                                BIT4                1=1442 IS PERM ALLOCATED.
376+*PCTMFU                                BIT5                1=MFCU/M IS PERM ALLOCATED.
377+*                                BIT6                1=1442 IS SPOOL READER FOR CCP
378+*                                BIT7                1=1442 IS SPOOL PUNCH FOR CCP

46FA 380+$AMSA  EQU $AMPA+1           IN USE DEVICES
0002 381+AMSORT EQU BIT6                1 = $INDEX45 FILE IN USE
46FB 382+$AMSHR EQU $AMSA+1           COUNT OF PRESENT PRINT SHARERS
46FC 383+$AMID  EQU $AMSHR+1         TCB ID OF LEVEL CCP IS IN
46FD 384+$AMUSE EQU $AMID+1           COUNT OF ACTIVE USER TASKS
46FF 385+$AMWRK EQU $AMUSE+2         ALLOCATION WORK FIELD
    
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\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	14
			387+	*****	TERMINATOR WORK AREA				24 BYTES*****
4700		388+	\$TMWK	EQU	\$END1+#LDFWK+#LCPWK+#LAMWK				START OF TERMINATION'S
4700		389+	\$TM	EQU	\$TMWK				WORK AREA
4700		391+	\$TMFLG	EQU	\$TM				TERMINATOR FLAG BYTE
0080		392+	\$TMSTK	EQU	BIT0				SYSTEM TASK FAILURE
0080		393+	\$TMBSY	EQU	BIT0				1--TERMINATION TASK IS ACTIVE
		394+	*						0--TERMINATION TASK NOT BUSY
0040		395+	\$TMDMP	EQU	BIT1				1--NO USER TASK ACTIVE FOR C CCP
		396+	*						0--USER TASK ACTIVE FOR C CCP
0020		397+	\$TMEJ	EQU	BIT2				1--\$CC4EJ (CCP END OF JOB)
		398+	*						HAS BEEN INVOKED BY \$CC4TD
		399+	*						(TERMINATION CONTROL ROUTINE)
0010		400+	\$TMCLZ	EQU	BIT3				TERMINATION MUST CALL CLOSE
0008		401+	\$TMTWA	EQU	BIT4				\$CC4TW ACTIVE IN XIENT AREA
0004		402+	\$TMDDR	EQU	BIT5				DISK DUMP REQUESTED (NOT 2A,2B)
0002		403+	\$TMDFL	EQU	BIT6				ON=NO MORE DUMP SPACE GUARANTEED
0001		404+	\$TMDER	EQU	BIT7				ON=PERMANENT DISK I/O ERROR
		405+	*						DURING TERMINATION DUMP
4702		407+	\$TMTCB	EQU	\$TMFLG+2				@ OF TCB CURRENTLY BEING
		408+	*						PROCESSED BY TERMINATION TASK
4703		409+	\$TMECB	EQU	\$TMTCB+1				TERMINATION'S ECB (3 BYTES)
4707		410+	\$TMDID	EQU	\$TMECB-1+3+2				DUMP ID DIGITS (2 BYTES)
		412+	*	-----	\$CC4TI-\$CC4TM-CC4TH WORK AREAS-----*				
4709		413+	TIWRK1	EQU	\$TMDID+2				RESIDENT WORK
470B		414+	TIWRK2	EQU	TIWRK1+2				AREAS
470D		415+	TIWRK3	EQU	TIWRK2+2				FOR INFORMATION
470F		416+	TIWRK4	EQU	TIWRK3+2				SAVE ON
4711		417+	TIWRK5	EQU	TIWRK4+2				SYSTEM DISASTER
4713		418+	TIWRK6	EQU	TIWRK5+2				CONDITIONS
4713		419+	@XSNT3	EQU	TIWRK6				ADDRESS OF TRANSIENT AREA 3 IOB
4715		420+	@CSXPT	EQU	TIWRK6+2				C/S ADDRESS OF ORIGINAL PCT
		422+	*	-----	PSEUDO OPEN/CLOSE SAVE AREA FOR ATTS -----				
470B		423+	OPSATT	EQU	\$TMDID+4				FSA ATT SAVE AREA
470D		424+	OPEATT	EQU	OPSATT+2				EXT BUF ATT SAVE AREA
470E		425+	OPSEG#	EQU	OPEATT+1				SAVE AREA FOR SEGMENT NUMBER

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	15
			427+	*****	COMMUNICATIONS MANAGEMENT WORK AREA			45	BYTES*****
4718		428+	\$CMWK	EQU	\$END1+#LDFWK+#LCPWK+#LAMWK+#LTMWK				START OF COMMUNICATION
4718		429+	\$CM	EQU	\$CMWK				MANAGEMENT WORK AREA
4719		431+	#CMDTF	EQU	\$CM+1				SAVE AREA FOR DTF ADDRESS
471B		432+	#Cmpl	EQU	#CMDTF+2				SAVE AREA FOR PARM LIST
471D		434+	#CMTMA	EQU	#Cmpl+2				SAVE AREA FOR TERMINAL ADDRESS
471D		435+	#CMBK1	EQU	#CMTMA				RETURN CODE FOR \$CC4BL MESSAGE
471E		437+	#CMTFT	EQU	#CMTMA+1				SAVE AREA FOR TERMINAL FEATURES
471E		438+	#CMBK2	EQU	#CMTFT				INTERNAL MSG TYPE FOR \$CC4BL
4720		440+	#CMPTR	EQU	#CMTFT+2				SAVE AREA FOR PREVIOUS POINTER
4722		441+	#CMFPL	EQU	#CMPTR+2				SAVE AREA FOR FOUND PARM LIST
4724		442+	#CMLSL	EQU	#CMFPL+2				LAST LCB CHECKED FOR PL NEEDING
		443+	*						* GETMAIN
4726		444+	#CMTUB	EQU	#CMLSL+2				SAVE AREA FOR TUB ADDRESS
4728		445+	#CMERP	EQU	#CMTUB+2				@ OF DTF TO BE RESCHEDULED AFTER
		446+	*						BEING IN CCP ERP
4729		447+	#CMSWT	EQU	#CMERP+1				CONTROL SWITCH
0080		448+	#CMARR	EQU	BIT0				1--OK TO MODIFY TCBARR
0040		449+	#CMFMD	EQU	BIT1				1--CM FREEMAIN DONE SINCE LAST
		450+	*						* CHECK.
0020		451+	PRUFOF	EQU	BIT2				1--RESET PRUF MODE (PRUFOF)
472A		453+	#OPEND	EQU	#CMSWT+1				T-P OP END COUNT
472C		454+	#CCMCL	EQU	#OPEND+2				MAXIMUM COMMAND BUFFER LENGTH
472E		455+	#RUFCL	EQU	#CCMCL+2				MAX READ UNDER FORMAT COM LEN
4730		456+	@TAS	EQU	#RUFCL+2				TERMINAL ATTRIBUTE SET ADDRESS
4731		457+	#HITAS	EQU	@TAS+1				HIGHEST TAS INDEX IN SYSTEM
4733		459+	@CSSTT	EQU	#HITAS+2				DISK C/S OF STT
4734		460+	#HISTT	EQU	@CSSTT+1				NO ENTRIES IN STT(SW TERM TBL)
4736		462+	@MLTAD	EQU	#HISTT+2				ADDRESS OF MLTA ADAPTER
		463+	*						0 INDICATES NO MLTA ADAPTER
4738		464+	@CKLST	EQU	@MLTAD+2				ADDRESS OF CHECK LIST
		466+	*	-----	COMMUNICATIONS MANAGEMENT				ECB'S -----*
4739		467+	\$CMECB	EQU	@CKLST+1				ECB FOR POST OF CM
473C		468+	\$CMFM	EQU	\$CMECB+3				FREEMAIN POST OF CM
4740		469+	@ANYTP	EQU	\$CMFM+4				ADDRESS OF COMMON TP FOR GETMAIN
4742		470+	@INVPL	EQU	@ANYTP+2				ADDRESS OF INV PL TP FOR GETMAIN
4744		471+	ERTIME	EQU	@INVPL+2				AUTO ERP RECOVERY TIME
		473+	*	-----	COMMUNICATIONS MANAGEMENT				RESERVED AREA -----*
4743		474+	\$CMRV2	EQU	@INVPL+1				START OF 2 BYTE RESERVED AREA
		476+	*		PROGRAM REQUEST/ALLOCATION DUMMY TUB				CHAIN POINTER
47AD		477+	@DTUBQ	EQU	CORCNT+2				START ADDRESS OF DUMMY TUB'S
47AF		478+	#RUFAD	EQU	@DTUBQ+2				ADDITIONAL DATA FOR PRUF'S.
47B1		479+	TNTATT	EQU	#RUFAD+2				ATT LOCATION FOR TNT MOVEOUT

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	16
		47B3	480+	\$RESER EQU	TNTATT+2				RESERVE AREA.
		482+*	----- BSCC COMMUNICATIONS AREA -----*						
		47B4	484+	\$CSFM EQU	\$RESER+1				FREEMIAN ECB
		47B7	485+	\$CSECB EQU	\$CSFM+3				OP END AND NEW REQUEST ECB
		47BA	486+	#CONSD EQU	\$CSECB+3				OP END COUNT FOR LINES 3 AND 4
		47BC	487+	@CSNRQ EQU	#CONSD+2				NEW REQUEST QUEUE
		47BE	488+	@CSTCB EQU	@CSNRQ+2				ADDRESS OF BSCC TCB
		47C0	489+	#CSERP EQU	@CSTCB+2				ADDRESS OF LCB IN ERROR RECOVERY
		47C2	490+	@CLB#1 EQU	#CSERP+2				ADDRESS OF FIRST BSCC LCB
		47C6	491+	POLTIM EQU	@CLB#1+4				POLL TIME FOR CS
		47C7	492+	SVLOOP EQU	POLTIM+1				SAVE POLL LOOP COUNT FOR CS
		47CA	493+	WAITIM EQU	SVLOOP+3				WAIT TIME FOR CS
		47CB	494+	#MATST EQU	WAITIM+1				LOGICAL ATR START OF BSCC
		47CC	495+	#MATED EQU	#MATST+1				LOGICAL ATR END OF BSCC
		47CD	496+	#MATX3 EQU	#MATED+1				REAL ATR START OF XIENT AREA 3
		498+*	----- DIRECTORY ADDRESSES -----*						
		499+*	--INDIVIDUAL FIELDS ARE VALID ONLY IF A PROGRAM STATEMENT DESIGNATED--*						
		500+*	--THAT UNIT AS ITS LOCATION, OTHERWISE THE FIELDS ARE LEFT AS ZEROES--*						
		501+*	-----*						
		47CF	503+	CSPKR1 EQU	#MATX3+2				C/S OF DIRECTORY ON UNIT R1
		47D1	504+	CSPKF1 EQU	CSPKR1+2				C/S OF DIRECTORY ON UNIT F1
		47D3	505+	CSPKR2 EQU	CSPKF1+2				C/S OF DIRECTORY ON UNIT R2
		47D5	506+	CSPKF2 EQU	CSPKR2+2				C/S OF DIRECTORY ON UNIT F2
		508+*	----- SAVE AREAS FOR THE DISPLAY TRANSIENTS -----*						
		47D7	509+	\$CPIAR EQU	CSPKF2+2				IAR
		47D9	510+	\$CPXR1 EQU	\$CPIAR+2				TUB,TNT,OR FSB
		47DB	511+	\$CPDTF EQU	\$CPXR1+2				DTF
		47DC	512+	\$CPUSE EQU	\$CPDTF+1				PROGRAM USE COUNT SAVE FIELD
		514+*	----- CCP TRACE, AUTO ERP, TNT MOVEOUT-----*						
		47DD	516+	\$FLGD EQU	\$CPUSE+1				FOURTH SYSTEM LEVEL FLAG BYTE
		0001	517+	#BIT7 EQU	BIT7				
		0002	518+	#DDRUN EQU	BIT6				\$CCPDD IS PRINTING TRACE
		0004	519+	#NOPST EQU	BIT5				SKIP FREEMAIN POST OF CM TASK
		0008	520+	#CPALC EQU	BIT4				\$CCPDUMP FILE HAS BEEN ALLOCATED
		0010	521+	#PRQIP EQU	BIT3				PROGRAM REQUEST Q IN PROCESS
		0020	522+	#AERPS EQU	BIT2				AUTO ERP SUPPORTED
		0040	523+	#AERPA EQU	BIT1				AUTO ERP ACTIVE
		0080	524+	TNTOUT EQU	BIT0				1--TNT MOVE-OUT SUPPORTED
		47DF	525+	\$CCTR@ EQU	\$FLGD+2				ADDRESS OF CCP TRACE INTERCEPT
		47E0	526+	\$CCTR# EQU	\$CCTR@+1				2K BLOCKS IN TRACE REQUEST
		47E2	528+	@AERPQ EQU	\$CCTR#+2				Q OF TUBS FOR AUTO ERP

\$CC4#1 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	17
		47E4	530+	#DPEND EQU	@AERPQ+2				CC/HH @ OF END OF \$CCPDUMP
			532+*						*
			533+*	THIS AREA IS CS'S MOVE TRANSLATE AREA					*
			534+*						*
47E6		535+	CS#MVL EQU	#DPEND+2					BSCC MOVE PARAMETER
4600		536+	CS#TRL EQU	*					BSCC TRANSLATE PARAMETER LIST
		47FF	538+	\$CCEND EQU	X'47FF'				END OF \$CCCOM

\$CC4#1 EQUATES -- TASK CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	18
			540 *	\$ETCB					CCP00149
			541+	*****					
			542+	*	EQUATES FOR THE CCP TCB EXTENSION				*
			543+	*****					
		0000	544+TCBCAL	EQU	0				OCC CANCEL WHILE TCB IN ALLOC
			545+	*	CCP BIT INDICATORS APPEARING IN FIELDS IN THE STANDARD TCB.				
			546+	*	BIT EQUATES FOR TCBID.				
		00FF	547+TCBWID	EQU	B'11111111'				SYSTEM WAIT TASK ID
			549+	*	BIT EQUATES FOR TCBFG1.				
		0080	550+TCBUSR	EQU	B'10000000'				CCP USER TASK
		0004	551+TCBNCL	EQU	B'00000100'				CANCEL NOT ALLOWED
			552+**		TCBUSR+TCBNCL = CCP SYSTEM TASK				
			554+	*	BIT EQUATES FOR TCBFG2.				
		0080	555+TCBTRC	EQU	B'10000000'				TERMINATION CALL OF CLOSE
			557+	*	BIT EQUATES FOR TCBDS1.				
		0040	558+TCBSUS	EQU	B'01000000'				WAIT INDICATOR FOR SUSPENDED TCB
		0020	559+TCBTRM	EQU	B'00100000'				TCB IS IN CCP TERMINATION
			561+	*	FIELDS OVERLAYING DSM TCB FIELDS.				
		002B	562+TCBCMP	EQU	X'2B'				TCBEJC - USER TERMINATION CODE
		0064	564+TCB@AS	EQU	X'64'				NPNAME-4 PROG APPENDED STORAGE @
		0065	565+TCBPAS	EQU	TCB@AS+1				SIZE (X256) OF PAS
		0066	566+TCBFDT	EQU	TCBPAS+1				SIZE (X256) OF LARGEST FDT
		0068	567+TCBINQ	EQU	TCBFDT+2				Q OF TUBS WITH DATA FOR ACCEPT
		00A7	569+TCBIR	EQU	X'A7'				NPSCH-1 XIENT AREA IAR SAVE FLD
		00A9	570+TCBPR	EQU	TCBIR+2				TRANSIENT AREA PMR SAVE FIELD
		00AB	571+TCBX2	EQU	TCBPR+2				TRANSIENT AREA REG 2 SAVE FIELD
		00AD	572+TCBX1	EQU	TCBX2+2				TRANSIENT AREA REG 1 SAVE FIELD
		00AE	574+TCBDMG	EQU	TCBX1+1				CCP INTERNAL FLAGS
		0080	575+TCBRUF	EQU	B'10000000'				PRUF PROGRAM ACTIVE
		0040	576+TCBKRQ	EQU	B'01000000'				CONSOLE WAS PROGRAM REQUESTOR
		0020	577+TCBALC	EQU	B'00100000'				TASK IS IN ALLOCATE
		0010	578+TCBNEP	EQU	B'00010000'				TASK IS A NEVER-ENDING-PROGRAM
		0008	579+TCBCM	EQU	B'00001000'				COMMUNICATIONS MANAGEMENT ID
		0004	580+TCBMTS	EQU	B'00000100'				TASK IS A MULTI-TERM-SERVICER
		0002	581+TCBEMG	EQU	B'00000010'				END MSG IS WANTED BY TERMINAL
		0001	582+TCBSHQ	EQU	B'00000001'				SHUTDOWN COMMAND HAS BEEN KEYED
			584+	*	END OF CCP PROGRAM LEVEL TCB(CM TASK).				
			586+	*	BEGINNING OF CCP EXTENSION FOR TCB (ALL CCP TASKS EXCEPT CM)				
			587+	*	CCP BITS WITHIN TCBEBC				
		0001	588+TCBACW	EQU	X'01'				THIS TASK AT ACCEPT INPUT WAIT
			589+	*					
		00C4	590+TCBPL	EQU	X'C4'				NPRCCP-39 TP PARAMETER LIST
		00D6	591+TCBPLE	EQU	TCBPL+18				END OF PARM LIST
		00D8	592+TCBXQ	EQU	TCBPLE+2				CCP CHAIN OF WAITING TASKS
		00D8	593+TCBWK	EQU	TCBXQ				WORK FIELD
		00DA	594+TCBTUB	EQU	TCBXQ+2				OWNED TUB CHAIN START POINT

\$CC4#1 EQUATES -- TASK CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	19
		00DB	595+	TCBECB EQU	TCBTUB+1				INTERNAL ECB FOR CCP - START
		00DE	596+	TCBIIC EQU	TCBECB+3				INVITE INPUT COUNT FOR USERS
		00DF	597+	TCBMAX EQU	TCBIIC+1				MAX NUMBER OF TERMINALS
		00E0	598+	TCBATR EQU	TCBMAX+1				CURRENT TERMINAL COUNT
		00E1	600+	TCBURA EQU	TCBATR+1				UNIT RECORD ALLOCATE MASK
		0080	601+	TCBPRS EQU	B'10000000'				PRINTER IS SHARED
		0020	602+	TCB501 EQU	B'00100000'				PROGRAM USES 2501
		0010	603+	TCBPRT EQU	B'00010000'				PROGRAM USES LINE PRINTER
		0008	604+	TCB142 EQU	B'00001000'				PROGRAM USES 1442
		0004	605+	TCBMFU EQU	B'00000100'				PROGRAM USES MFCU OR MFCM
		0040	606+	TCB741 EQU	B'01000000'				3741 USED AS UNIT RECORD DEVICE
		00E3	608+	TCBFBM EQU	TCBURA+2				FILE BIT MASK, DISPLACEMENT
		00E4	609+	TCBUSE EQU	TCBFBM+1				
		00E5	611+	TCBOFG EQU	TCBUSE+1				CCP INTERNAL FLAGS
		0080	612+	TCBSRT EQU	B'10000000'				SORT PGM ACTIVE
		0040	613+	TCBCHN EQU	B'01000000'				TASK WAS REQUESTED VIA CHAIN OP
		0020	614+	TCBLOW EQU	B'00100000'				LOW PRIORITY TASK REQUEST
			615+*	EQU	B'00010000'				
			616+*	EQU	B'00001000'				
			617+*	EQU	B'00000100'				
			618+*	EQU	B'00000010'				
			619+*	EQU	B'00000001'				
		00E7	621+	TCBPCB EQU	TCBOFG+2				ADDR OF REQUIRED PORT.
		00E9	622+	TCBXR@ EQU	TCBPCB+2				ADDR OF CCP XIENT RIB BYTE.
		00EB	623+	TCBRV EQU	TCBPL+39				RESERVED AREA FROM 'TCBXR@'
			625+	*****					
			626+*	RESIDENT OPEN CLOSE ATT SAVE AREA					*
			627+	*****					
		010D	628+	TCBATS EQU	X'010D'				START OF SAVE AREA
		010E	629+	TCBEPL EQU	TCBATS+1				E.P.L. ATTS
		0112	630+	TCBROC EQU	TCBEPL+4				RESIDENT OPEN/CLOSE ATTS
		0116	631+	TCBFSA EQU	TCBROC+4				F.S.A. ATTS
			633+	*****					
			634+*	THE FOLLOWING REDEFINES THE PARM-LIST AREA FOR THE					*
			635+*	COMMUNICATIONS SCHEDULAR (\$CC4CS). DEFINES THE ATTS					*
			636+*	THAT MAPS THE SIOC DM/IOCS/IH. (4K-MAX)					*
			637+	*****					
		00C4	638+	TCBSAD EQU	TCBPL				DISPLACEMENT FOR SIOC DM ATR
		00C6	639+	TCBSAT EQU	TCBSAD+2				ATRS VALUES TO MAP SIOC DM.
		00C8	640+	TCBSAS EQU	TCBSAT+2				ATRS TO RESTORE \$CC4#M ATRS.
		00CA	641+	TCBSAV EQU	TCBSAS+2				ATRS SAVE AREA FOR \$@TRAP.
			643+	*****					
			644+*	THE FOLLOWING REDEFINES TCBIIC, TCBMAX, TCBATR, TCBURA,					*
			645+*	TCBFBM, TCBUSE, AND TCBOFG FOR THE COMMAND PROCESSOR TCB					*
			646+*	ONLY (SUCH FIELDS ARE MEANINGFUL ONLY FOR USER TCB'S).					*
			647+*	EACH OF THE FOLLOWING FOUR FIELDS IS 2 BYTES LONG.					*
			648+	*****					
		00DF	649+	#CPDAT EQU	TCBMAX				TIMES CP TASK RECEIVED DATA
		00E1	650+	#PGMLD EQU	TCBURA				# OF USER PGM LOADS DONE

\$CC4#1 EQUATES -- TASK CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	20
		00E3	651+#MRTAT	EQU	TCBFBM				PGM REQS ATTACHED TO ACTIVE MRTS
		00E5	652+#TCACC	EQU	TCBOFG				TASK CHAIN REQUESTS ACCEPTED

CCP00151

```

655 *      $EPAS
656+* * * * *
657+*
658+*      EQUATES TO OFFSETS IN THE 'PROGRAM APPENDED STORAGE' AREA.
659+*      01/08/74  MODEL 15
660+*
661+*
662+*      THE PAS IS DIVIDED UP INTO THREE MAIN STORAGE AREAS...
663+*          1. PAS CONSTANTS AND WORK AREAS.  THIS AREA CONTAINS
664+*              ALL THE INFORMATION PERTAENT TO A TASK.
665+*              THIS AREA STARTS ON A SECTOR BOUNDARY AND IS LESS
666+*              THAN A SECTOR IN LENGTH.
667+*
668+*          2. FT AND TT ENTRIES.  THIS AREA IMMEDIATELY FOLLOWS
669+*              THE PAS CONSTANTS AND CONTAINS THE 'FORMAT TABLE'
670+*              AND 'TERMINAL TABLE' (TT AND FT) ENTRIES.  THIS AREA
671+*              WILL RUN UP TO THE FIRST BYTE OF THE NEXT AREA.
672+*
673+*          3. 'FIELD DESCRIPTOR AREA' (FDT).  THIS AREA WILL START
674+*              ON A SECTOR BOUNDARY AND ITS LENGTH WILL BE EVENLY
675+*              DIVISIBLE BY SECTORS.  THE 'FDT' OF A FORMAT WILL BE
676+*              READ INTO THIS AREA FROM THE OBJECT LIBRARY ON DISK.
677+*
678+* * * * *

680+* * * * *
681+*      CONSTANT AND WORK AREA.
682+* * * * *

0000 684+PAS EQU 0          START OF PROGRAM APPENDED STORAG
0001 685+PASITT EQU PAS+1  @ OF FIRST TERMINAL TABLE ENTRY.
686+*          2 (TT ENTRY)

0003 688+PASNFT EQU PASITT+2 @ OF NEXT AVAILABLE TT OR FORMAT
689+*          2 TABLE (FT) ENTRY.

0005 691+PASEFT EQU PASNFT+2 @ OF END OF AREA TO BUILD TT AND
692+*          2 FT ENTRIES. (SHOULD BE END OF
693+*          PAS AREA.

0007 695+PASFDT EQU PASEFT+2 @ OF FDT AREA
696+*          2

0008 698+PASTID EQU PASFDT+1 TASK ID
699+*          1

0009 701+PASFDL EQU PASTID+1 NUMBER OF 256 BYTE BLOCKS OF
702+*          1 CORE NEEDED FOR LARGEST FDT.

000B 704+PASCT@ EQU PASFDL+2 @ OF TT ENTRY CURRENTLY PROCESS.
705+*          2

0011 707+PASCTN EQU PASCT@+6 NAME OF TERMINAL CURRENTLY
708+*          6 BEING PROCESSED.
    
```

\$CC4#1 EQUATES -- FOR PROGRAM APPENDED STORAGE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	22
		0013	710+PASCF@ EQU 711+*	PASCTN+2	@ OF FT FOR FDT CURRENTLY IN PAS	2			
		0015	713+PASFR@ EQU 714+*	PASCF@+2	RETURN POINT FROM DFF000	2			
		0017	716+PASJR@ EQU 717+*	PASFR@+2	RETURN POINT FROM DFJ000	2			
		0019	719+PASXR@ EQU 720+*	PASJR@+2	COMMON SAVE AREA FOR RETURN 2 ADDRESS FOR MISC ROUTINES.	2			
		001B	722+PASRE@ EQU 723+*	PASXR@+2	@ OF RETURN POINT TO OP CODE 2 LOGIC AFTER RETURN FROM \$CC4CM.	2			
		001D	725+PASOH@ EQU 726+*	PASRE@+2	@ OF OUTPUT HOLD AREA CURRENTLY 2 IN USE BY THIS TASK	2			
		001F	728+PASOHL EQU 729+*	PASOH@+2	LENGTH OF OUTPUT HOLD AREA 2 CURRENTLY USING.	2			
		0021	731+PASOHE EQU 732+*	PASOHL+2	END ADDR OF OHA	2			
		0022	734+PASCCC EQU 735+*	PASOHE+1	COPY CONTROL CHARACTER	1			
		0024	737+PASTOD EQU 738+*	PASCCC+2	'TO'DEVICE + CONTROL UNIT	2			
		0026	740+PASFRD EQU 741+*	PASTOD+2	'FROM'DEVICE ADDRESS FOR 'COPY'	2			
		0026	742+PASID@ EQU 743+*	PASFRD	ADDRESS OF LINE ID IN CCCOM	2			
		0027	745+PASFLG EQU 746+*	PASFRD+1	FLAG BYTE	1			
		0080	747+PASFRT EQU 748+*	BIT0	1-'TO'TERMINAL 0-'FROM'TERMINAL				
		0020	749+PASRST EQU	BIT2	1-RESET MDT SET IN USERS WCC				
		0010	750+PASBLK EQU 751+*	BIT3	0-NO BLOCKING 1- BLOCKING				
		0008	752+PASFTS EQU 753+*	BIT4	FIRST TIME SWITCH FOR BLOCKING 1- FIRST TIME THROUGH				
		0004	754+PASRUF EQU 755+*	BIT5	READ UNDER FORMAT ACCEPT INPUT 1-ACCEPT INPUT AND TUBRUF ON				
			757+*	* * * * *	DISK IOB FOR DISK READS.				
		0028	759+PASIOB EQU	PASFLG+1	BEGINING OF IOB				
		0044	761+PASDBE EQU	PASIOB+28	END OF IOB				

\$CC4#1 EQUATES -- FOR PROGRAM APPENDED STORAGE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	23
				764+* * * * * CCP PARAMETER LIST STORAGE AREA FROM USER PGM.				
				766+PASPL@ EQU PASDBE+2 @ OF USER PARM LIST				
0046				767+* 2				
				769+PASCPL EQU PASPL@+1 BEGIN OF PARM LIST				
0047								
				771+PASCPE EQU PASCPL+11 END OF PARM LIST(LAST 4 BYTES				
0052				772+* 16 ARE NOT SAVED.				
				774+PASIX1 EQU PASCPE+2 SAVE ARE FOR \$CC4II XR1				
0054				775+* 2				
				777+PASIAR EQU PASIX1+2 SAVE AREA FOR \$CC4II RETURN @				
0056				778+* 2				
				780+PASOF@ EQU PASIAR+2 @ IN FDT CURRENTLY WORKING AT				
0058				781+* 2 FOR OUTPUT BUILD				
				783+PASHAP EQU PASOF@+2 POINTER TO AREA IN OUTPUT HOLD				
005A				784+* 2 AREA CURRENTLY WORKING AT.				
				786+PASRAP EQU PASHAP+2 POINTER TO RECORD AREA CURRENTLY				
005C				787+* 2 WORKING AT.				
				789+PASTTE EQU PASRAP+2 @ OF EMPTY TT ENTRY				
005E				790+* 2				
				792+PASCFT EQU PASTTE+6 NAME OF FORMAT DESIRED FOR 'PUT'				
0064				793+* 6				
				795+PASTC EQU PASCFT+1 TERMINATION CODE				
0065				796+* 1				
				798+PASTTS EQU PASTC+2 TOTAL TEXT SIZE FOR OUTPUT				
0067				799+* 2				
				801+PASTTM EQU PASTTS+2 TOTAL TEXT MOVED SO FAR				
0069				802+* 2				
				804+PASLTH EQU PASTTM+2 TOTAL END POSITION OF TEXT IN				
006B				805+* 2 OHA				
				807+PASUDL EQU PASLTH+2 USER DEFINED DATA LNG FOR OUTPUT				
006D				808+* 2				
				810+PASWCC EQU PASUDL+1 WCC AND CCC SAVE AREA				
006E				811+* 1				
				813+PASTAR EQU PASWCC+2 SAVE AREA FOR ARR OF CALLER TO				
0070				814+* 2 A ROUTINE IN DFCR WHICH MIGHT				
				815+* BE INTERRUPTED AND TASK SWITCHED				
				817+PASWRK EQU PASTAR+2 WORK AREA				
0072				818+* 2				

\$CC4#1 EQUATES -- FOR PROGRAM APPENDED STORAGE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	24
		0074	820+	PASWKZ EQU	PASWRK+2				
				821+*					
		0078	822+	PASRFN EQU	PASWKZ+4				
				823+*					
		007B	825+	PASEND EQU	PASRFN+3				
		007C	826+	PASL EQU	PASEND+1				

WORK AREA WITH HIGH-ORDER BYTE
2 ALWAYS CONTAINING ZERO
READ UNDER FORMAT NAME
6 FORMAT NAME FOR RUF

RESERVED AREA AND END OF 'PAS'.
LENGTH OF PAS CONSTANTS

\$CC4#1 EQUATES -- FOR PROGRAM APPENDED STORAGE

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT

SCP GENERATOR 08/08/10 PAGE 25

829 * \$LOGD
830+*

*** S Y S L O G O F F S E T S ***

0000	832+\$LGFUN	EQU	0	FUNCTION CODE.
0001	833+\$LGDS	EQU	1	DEFAULT/SEVERITY.
0000	835+\$LGSE1	EQU	X'00'	SEVERITY 1
0001	836+\$LGSE2	EQU	X'01'	* 2
0002	837+\$LGSE4	EQU	X'02'	* 4
0003	838+\$LGSE8	EQU	X'03'	* 8
0003	840+\$LGCC	EQU	3	COMPONENT IDENTIFICATION.
0005	841+\$LGHH	EQU	5	MESSAGE IDENTIFICATION - PART 1.
0006	842+\$LGDO	EQU	6	RESPONSE + VALID OPTIONS
0080	844+\$LGDE0	EQU	X'80'	DEFAULT OPTION OR RESPONSE OF 0
0040	845+\$LGDE1	EQU	X'40'	* 1
0020	846+\$LGDE2	EQU	X'20'	* 2
0010	847+\$LGDE3	EQU	X'10'	* 3
0008	848+\$LGOP0	EQU	X'08'	ALLOWABLE OPTION 0
0004	849+\$LGOP1	EQU	X'04'	* 1
0002	850+\$LGOP2	EQU	X'02'	* 2
0001	851+\$LGOP3	EQU	X'01'	* 3
0008	853+\$LGII	EQU	8	MESSAGE IDENTIFICATION - PART 2.
0007	854+\$LGCL	EQU	7	TEXT LENGTH - FORMAT C
0009	855+\$LGCAA	EQU	9	TEXT ADDRESS - FORMAT C
0009	856+\$LGDL	EQU	9	TEXT LENGTH - FORMAT D
000B	857+\$LGDAA	EQU	11	TEXT ADDRESS - FORMAT D
0006	858+\$LGOTY	EQU	6	WTO(R) TYPE FUNCTION.
0009	859+\$LGOL	EQU	9	TEXT LENGTH - WTO(R)
000B	860+\$LGOAA	EQU	11	TEXT ADDRESS - WTO(R)
	861+*			LEFTMOST BYTE DISPLACEMENT TO TH
000C	862+\$LGOEC	EQU	12	ECB - WTO (1-CHAR RESP)
000D	863+\$LGI1E	EQU	13	ADDRESS OF ECB (WTOW/WTOWH)
000F	864+\$LGI2E	EQU	15	ADDRESS OF ECB (WTOW/WTOWH) / TC
0010	865+\$LGJ1E	EQU	16	ADDRESS OF ECB (WTORW)
0012	866+\$LGJ2E	EQU	18	ADDRESS OF ECB (WTORW) / TCB
000C	867+\$LGON	EQU	12	REPLY LENGTH - WTOR
000E	868+\$LGO@@	EQU	14	REPLY ADDRESS - WTOR
0000	870+\$LGFUT	EQU	0	OUTPUT ONLY FUNCTION CODE
0001	871+\$LGPGE	EQU	1	* PAGE CONTROL OPTION
0002	872+\$LGLNG	EQU	2	* BUFFER LENGTH
0004	873+\$LGADR	EQU	4	* BUFFER ADDRESS
0005	874+\$LGCPL	EQU	5	* CARRIAGE POSITION
0006	875+\$LGCPR	EQU	6	* RESERVED.

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877 *          $EDSM RB-Y,SP-Y                      CCP00155
878+*****
879+*
880+* COMMUNICATIONS AREA FOR A PROGRAM LEVEL      *
881+*
882+*****
883+*          START OF TASK CONTROL BLOCK
0000 884+TCBB EQU 0
0001 885+TCBNXT EQU TCB+1 2 @ OF NEXT TCB ON QUEUE
0002 886+TCBPRI EQU TCBNXT+1 1 TASK PRIORITY
0003 887+TCBID EQU TCBPRI+1 1 TASK ID

889+*****
890+*
891+* NAME, PRIORITY AND ID OF THE SYSTEM TCBS:
892+*
893+* NAME..... PRIORITY... ID.*..
894+*  CONSOLE MANAGEMENT TASK F0 10
895+*  SYSTEM ERROR TASK E0 20
896+*  SPOOL SUPPORT TASK D0 30
897+*  SPOOL TASK CE 32
898+*  PROGRAM LEVEL 2 TASK C0 40
899+*  PROGRAM LEVEL 1 TASK 60 A0
900+*  SYSTEM WAIT TASK 01 FF
901+*
902+* *-ID CHARACTERS 'A-Z' AND '0-9' ARE RESERVED FOR CCP TASKS *
903+*****
    
```

```

0004 905+TCBFG1 EQU TCBID+1 1 FLAG BITS
906+* X'80'-CCP TASK
907+* X'40'-NON-CANCELABLE SYSTEM TAS
908+* X'08'-3 OPTION ONLY HALT PENDIN
909+* X'04'-CANCEL NOT ALLOWED
910+* X'02'-CANCEL DEFERRED
911+* X'01'-EOJ IN PROCESS
    
```

```

0005 913+TCBFG2 EQU TCBFG1+1 1 FLAG BITS
914+* X'01'-ATT LOAD REQUESTED
    
```

```

0006 916+TCBDS1 EQU TCBFG2+1 1 DISPATCHABILITY BITS
917+* X'80'-NON-DISPATCHABLE
918+* X'40'-SUSPENDED BY CCP
919+* X'20'-CCP TERMINATE IN PROGRESS
920+* X'02'-WAITING FOR RESOURCES
921+* X'01'-WAITING FOR CORE
    
```

```

0007 923+TCBDS2 EQU TCBDS1+1 1 DISPATCHABILITY BITS
    
```

```

925+***** PROGRAM REQUEST BLOCK *****
0009 926+TCBRBP EQU TCBDS2+2 2 @ OF ACTIVE REQUEST BLOCK
000B 927+TCBRBF EQU TCBRBP+2 2 REQUEST BLOCK FLAGS
000D 928+TCBTCB EQU TCBRBF+2 2 @ OF ASSOCIATED TCB
000F 929+TCBIAR EQU TCBTCB+2 2 PROGRAM LEVEL IAR
0011 930+TCBPMR EQU TCBIAR+2 2 PROGRAM LEVEL PMR
0013 931+TCBPSR EQU TCBPMR+2 2 PROGRAM LEVEL PSR
0015 932+TCBXR2 EQU TCBPSR+2 2 PROGRAM LEVEL XR2
0017 933+TCBXR1 EQU TCBXR2+2 2 PROGRAM LEVEL XR1
0019 934+TCBARR EQU TCBXR1+2 2 PROGRAM LEVEL ARR

936+* END OF WAIT TASK TCB

001C 938+TCBCSN EQU TCBARR+3 3 C/S/N FOR PROGRAM
001D 939+TCBRIB EQU TCBCSN+1 1 RIB VALUE
001E 940+TCBRSV EQU TCBRIB+1 1 RIB SAVE AREA
0024 941+TCBRS1 EQU TCBRSV+6 6 RESERVED
942+***** END OF PROGRAM REQUEST BLOCK *****

0026 944+TCBMAP EQU TCBRS1+2 2 @ OF CORE MAP FOR ASSIGN/FRE
0028 945+TCBTIM EQU TCBMAP+2 2 @ OF TIMER QUEUE ELEMENT
002A 946+TCBEJE EQU TCBTIM+2 2 EOJ EXIT @
002B 947+TCBEJC EQU TCBEJE+1 1 EOJ COMPLETION CODE
948+* X'80'-DUMP REQUESTED
949+* --- X'40'-SECONDARY CODE SPECIFIED
950+* USER CODES |--- X'20'-HALT/SYSLOG(2,3 OPTION)
951+* --- X'10'-OCC CANCEL
952+*
953+* SYSTEM CODES |--- X'08'-SECONDARY CODE SPECIFIED
954+* --- X'04'-RESERVED
955+* --- X'02'-INSUFFICIENT CORE STORAGE
956+* --- X'01'-PROGRAM CHECK
957+* --- X'00'-NORMAL COMPLETION

002C 959+TCBEJS EQU TCBEJC+1 1 EOJ SECONDARY COMPLETION COD
960+* - SYSTEM SECONDARY CODES -
961+* X'01'-INVALID ENQU SVC
962+* X'02'-INVALID DEQU SVC
963+* X'03'-I/O PROTECT VIOLATION
964+* X'04'-LOADING BELOW NPBEG
965+* X'05'-LOADING ABOVE NPEND
966+* X'06'-INVALID SETON/SETOF SVC
967+* X'07'-EXIO TO INVALID DEVICE

002E 969+TCBRTC EQU TCBEJS+2 2 @ OF RELATED TCB FOR SPOOL
004E 970+TCBATT EQU TCBRTC+32 32 ATT SAVE AREA
971+* BYTES 25 THRU 32 OF THE ATT SAVE AREA ARE DEFINED AS FOLLOWS:
0047 972+TCBHAV EQU TCBATT-7 1 RESOURCE(S) OWNED
973+* X'01'-SCHEDULER INTERLOCK
974+* X'02'-SPOOL FILE INTERLOCK
975+* X'04'-SYSLOG BUFFER INTERLOCK

004A 977+TCBRS3 EQU TCBATT-4 3 RESERVED
004C 978+TCBPCA EQU TCBATT-2 2 PROG CHECK ADDRESS REG
004E 979+TCBPCS EQU TCBATT 2 PROG CHECK STATUS REG

```

\$CC4#1 EQUATES -- FOR SYSTEM COMM AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	29
			981+*		START OF PROGRAM LEVEL COMM AREA				
		004F	982+NPPRTZ	EQU	TCBATT+1	1			PRINTER SIZE
		0050	983+NPLPSZ	EQU	NPPRTZ+1	1			LEFT TRACTOR PAGE SIZE
		0051	984+NPRPSZ	EQU	NPLPSZ+1	1			RIGHT TRACTOR PAGE SIZE
		0052	985+NPHALT	EQU	NPRPSZ+1	1			HALT/SYSLOG
			986+*						X'08'-NO HALT DISPLAY
			987+*						OFF-YES
			988+*						ON-NO
			989+*						X'04'-DEFAULT MODE
			990+*						X'03'-
			991+*						00-0 OPTION => SEVERITY=1
			992+*						01-1 OPTION => SEVERITY=2
			993+*						10-2 OPTION => SEVERITY=4
			994+*						11-3 OPTION => SEVERITY=8
		005A	996+NPJOB	EQU	NPHALT+8	8			JOB NAME
		0062	997+NPSTEP	EQU	NPJOB+8	8			STEP NAME
		0068	998+NPNAME	EQU	NPSTEP+6	6			PROGRAM NAME
		006A	999+NPSPCM	EQU	NPNAME+2	2			@ OF SPOOL COMM RELATED TO T
		006B	1000+NPEOJ	EQU	NPSPCM+1	1			END OF JOB BYTE
			1001+*						X'80'-RJE ACTIVE/RETURN TO NPBE
			1002+*						X'40'-NO IPL DISK ERRORS
			1003+*						X'20'-LIB MAINT BIT
			1004+*						X'10'-OCC DUMP TAKEN
			1005+*						X'08'-QUIESCE IN PROCESS AT EJ
			1006+*						X'01'-DO NOT CLOSE DTFS AT EOJ
		002A	1008+NPEOJ@	EQU	TCBEJE				END OF JOB RETURN @
		006C	1009+NPSPOL	EQU	NPEOJ+1	1			RESERVED FOR SPOOL
			1010+*						X'80'-TRAPPING I/O REQUEST
			1011+*						X'40'-SPOOL SUPPORTED THIS LEVE
			1012+*						X'20'-ON - END-OF-JOB
			1013+*						OFF - END-OF-STEP
			1014+*						X'10'-START SPOOL REQUESTED
			1015+*						X'08'-STOP SPOOL REQUESTED
		006E	1017+NPDTF@	EQU	NPSPOL+2	2			@ OF LAST OPENED DTF
		0071	1018+NPBEG	EQU	NPDTF@+3	3			REAL PROGRAM BEGIN @
		0074	1019+NPEND	EQU	NPBEG+3	3			REAL PROGRAM END @
		0076	1020+NPBEG	EQU	NPEND+2	2			LOGICAL PROGRAM BEGIN @
		0078	1021+NPRLF	EQU	NPBEG+2	2			PROGRAM RELOCATION FACTOR
		007A	1022+NPCYL	EQU	NPRLF+2	2			C/S OF FIRST LOAD (OVERLAYS)
		007C	1023+NPOLIB	EQU	NPOLIB+2	2			C/S OF PROG OBJ LIB
		007E	1024+NPORLF	EQU	NPORLF+2	2			OVERLAY RELOCATION FACTOR
		0080	1025+NPTXT	EQU	NPORLF+2	2			OVERLAY TEXT @
			1026+*		END OF SPOOL SUPPORT COMMON AREA				
			1027+*****						*
			1028+*						*
			1029+*		SYSTEM COMMUNICATIONS AREA				*
			1030+*						*
			1031+*****						*
		0000	1033+NCC	EQU	0	*			
		0001	1034+NCPL1	EQU	NCC+1	2			@ OF PROG LEVEL 1 COMM
		0003	1035+NCPL2	EQU	NCPL1+2	2			@ OF PROG LEVEL 2 COMM

\$CC4#1 EQUATES -- FOR SYSTEM COMM AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	30
		0005	1036+NCTCB	EQU	NCPL2+2	2	@ OF HIGHEST PRIORITY TCB		
		0007	1037+NCXTAB	EQU	NCTCB+2	2	@ OF XSNT SCHEDULER TABLE		
		0009	1038+NC@NEW	EQU	NCXTAB+2	2	@ OF NEW AND OLD		
			1039+*				OLD=@ OF ACTIVE TCB		
		000A	1040+NCDSP1	EQU	NC@NEW+1	1	TRACE SUPERVISION BITS		
		0080	1041+NCTRCA	EQU	X'80'		X'80'-TRACE ACTIVE		
		0040	1042+NCTRCS	EQU	X'40'		X'40'-TRACE SUSPENDED		
		0020	1043+NCTCCP	EQU	X'20'		X'20'-CCPTRACE TYPE-CCP		
		0010	1044+NCTALL	EQU	X'10'		X'10'-CCPTRACE TYPE-ALL		
		0008	1045+NCTRDK	EQU	X'08'		X'08'-CCPTRACE TO DISK		
		000B	1047+NCDSP2	EQU	NCDSP1+1	1	TASK SUPERVISION BITS		
			1048+*				X'08'-TASK(S) WAITING FOR		
			1049+*				RESOURCES		
			1050+*				X'04'-TRANSIENT AREA NOT		
			1051+*				REFRESHABLE		
			1052+*				X'02'-HIGHER PRIORITY TASKS ARE		
			1053+*				WAITING ON TRANSIENT AREA		
			1054+*				X'01'-TASK(S) WAITING FOR CORE		
		000C	1056+NCSGEN	EQU	NCDSP2+1	-	SYSTEM USAGE		
			1057+*				X'80'-DO NOT UPDATE SIO CTRS		
			1058+*				X'02'-SYSTEM MAINTENANCE		
			1059+*				X'01'-SYSTEM GENERATION		
		000D	1061+NCAFML	EQU	NCSGEN+1	1	ASIGN/FREE MASK LENGTH		
		0010	1062+NCSLOG	EQU	NCAFML+3	3	SYSLOG INDICATOR C/S/DEV INF		
			1063+*				X'00'-CONSOLE		
			1064+*				X'80'-3284		
			1065+*				X'40'-1403		
		0012	1067+NCSWRK	EQU	NCSLOG+2	2	C/S OF SWA		
		0013	1068+NCSYSQ	EQU	NCSWRK+1	1	Q OF SYSTEM PACK		
		0015	1069+NCOLIB	EQU	NCSYSQ+2	2	C/S OF SYSTEM OBJECT LIB		
		001B	1070+NCDATE	EQU	NCOLIB+6	6	SYSTEM DATE		
		001C	1071+NCSCH1	EQU	NCDATE+1	1	SCHEDULER SWITCHES		
			1072+*				X'80'-LOG STATUS		
			1073+*				ON-LOG TO CRT		
			1074+*				OFF-LOG TO 1403 OR 3284		
			1075+*				X'40'-SYSTEM DATE RECEIVED		
			1076+*				X'10'-SKD INTERLOCK PL1		
			1077+*				X'08'-SKD INTERLOCK PL2		
			1078+*				X'04'-DATE FORMAT		
			1079+*				OFF-MMDDY DOMESTIC		
			1080+*				ON-DDMMYY WORLD TRADE		
			1081+*				X'03'-5444 CONFIG		
			1082+*				00-F1,R1		
			1083+*				01-F1,R1,R2		
			1084+*				11-F1,R1,R2,F2		
		001D	1086+NCSMV1	EQU	NCSCH1+1	1	DM/SKD SWITCHES		
			1087+*				X'80'-IPL SUCCESSFUL		
			1088+*				X'40'-INPUT FOR I TYPE		
			1089+*				X'20'-SYSLOG INTERLOCK-P1		
			1090+*				X'10'-SYSLOG INTERLOCK-P2		
			1091+*				- X'08'-OFFLINE MVF ON R1		

\$CC4#1 EQUATES -- FOR SYSTEM COMM AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	32
			1147+*					X'80'-MULTIVOLUME FILE ON D1
			1148+*					X'40'-MULTIVOLUME FILE ON D2
			1149+*					X'20'-MULTIVOLUME FILE ON D3
			1150+*					X'10'-MULTIVOLUME FILE ON D4
			1151+*					X'08'-OTHER TYPE FILE ON D1
			1152+*					X'04'-OTHER TYPE FILE ON D2
			1153+*					X'02'-OTHER TYPE FILE ON D3
			1154+*					X'01'-OTHER TYPE FILE ON D4
		0037	1156+NCMVT1	EQU	NCSMV4+1	4		TAPE MFV SUPPORT
		003B	1157+NCMVT2	EQU	NCMVT1+4	4		TAPE MFV SUPPORT
		003F	1158+NCMVT3	EQU	NCMVT2+4	4		TAPE MFV SUPPORT
		0043	1159+NCMVT4	EQU	NCMVT3+4	4		TAPE MFV SUPPORT
		0048	1160+NCPRTB	EQU	NCMVT4+5	2		@ OF 133-BYTE SYSLOG BUFR
		0049	1161+NCCNFG	EQU	NCPRTB+1	17		START OF 17-BYTE UR CONFIG
		005A	1162+NCUTL1	EQU	NCCNFG+17	1		RESERVED FOR SPOOL
			1163+*					X'80'-SPOOL USING D1
			1164+*					X'40'-SPOOL USING D2
			1165+*					X'20'-SPOOL USING D3
			1166+*					X'10'-SPOOL USING D4
		005B	1168+NCSIPT	EQU	NCUTL1+1	1		SPOOL INPUT DEVICE
		005C	1169+NCSVRT	EQU	NCSIPT+1	1		SPOOL PRINT DEVICE
		005D	1170+NCSPCH	EQU	NCSVRT+1	1		SPOOL PUNCH DEVICE
		005F	1171+NCSPVN	EQU	NCSPCH+2	2		SUPERVISOR END @
		0061	1172+NCPFKT	EQU	NCSPVN+2	2		@ OF PROG FUNCTION KEY TABLE
		0062	1173+NCMPSZ	EQU	NCPFKT+1	1		MATRIX PRINTER SIZE
		0063	1174+NCMPLC	EQU	NCMPSZ+1	1		MATRIX PRINTER LINE COUNT
		0065	1175+NCTMRQ	EQU	NCMPLC+2	2		@ OF TIMER QUEUE
		0065	1176+NCAEND	EQU	NCTMRQ			LAST BYTE OF SCA

\$CC4#1 EQUATES -- FOR SYSTEM COMM AREAS

```

1178+*****
1179+*
1180+*   REQUEST BLOCK EQUATES
1181+*
1182+*****
    
```

```

0000 1184+RBB   EQU   0
0001 1185+RBRBP EQU   RBB+1
0002 1186+RBFLG1 EQU  RBRBP+1
1187+*
0003 1189+RBFLG2 EQU  RBFLG1+1
1190+*
1191+*
1192+*
1193+*
1194+*
0005 1196+RBTCB EQU  RBFLG2+2
0007 1197+RBIAR EQU  RBTCB+2
0009 1198+RBPMR EQU  RBIAR+2
000B 1199+RBPSR EQU  RBPMR+2
000D 1200+RBXR2 EQU  RBPSR+2
000F 1201+RBXR1 EQU  RBXR2+2
0011 1202+RBARR EQU  RBXR1+2
0014 1203+RBCSN EQU  RBARR+3
0015 1204+RBRIB EQU  RBCSN+1
0016 1205+RBRSV EQU  RBRIB+1
001C 1206+RBRES EQU  RBRSV+6
001D 1207+RBWORK EQU  RBRES+1
    
```

```

*
2  POINTER TO PREVIOUS RB
1  RB FLAG BITS
   X'80'-RB WAITING ON ECB
1  RB TYPE
   X'80'-TA REQUIRED (TRB)
   X'40'-REFRESH (RRB)
   X'04'-CCP (CRB)
   X'02'-SUSPEND (SRB)
   X'01'-LOADER (LRB)
2  @ OF TCB
2  PROGRAM LEVEL IAR
2  PROGRAM LEVEL PMR
2  PROGRAM LEVEL PSR
2  PROGRAM LEVEL XR2
2  PROGRAM LEVEL XR1
2  PROGRAM LEVEL ARR
3  PROGRAM LEVEL C/S/N
1  PROGRAM LEVEL RIB
1  RIB SAVE AREA
6  RESERVED
35 START OF WORK AREA-35 BYTES
    
```

\$CC4#1 EQUATES -- FOR SYSTEM COMM AREAS

```
1209+*****
1210+*
1211+* COMMON EQUATES
1212+*
1213+*****
0004 1214+NCENTR EQU 4 'BRANCH TO 4'
0011 1215+NCSYS@ EQU X'0011' @ OF POINTER TO SYSTEM COMM
001A 1216+NCMSVA EQU X'001A' @ OF MFCU PERM HISTORY TABLE
002A 1217+NCTRAC EQU X'002A' @ OF POINTER TO TRACE TABLE
002E 1218+NCTCB@ EQU X'002E' @ OF POINTER TO ACTIVE TCB (OLD)
0031 1219+NCTERM EQU X'0031' @ OF POINTER TO ABTERM ROUTINE
0032 1220+NCSV CJ EQU X'0032' @ OF AN SVC TO EOJ
0036 1221+NCSVCE EQU X'0036' @ OF AN SVC EXIT
003B 1222+NCTRAP EQU X'003B' @ OF POINTER TO TRAP TABLE
003F 1223+NCPENT EQU X'003F' @ OF PONTER TO POST ENTRY RTN
0041 1224+NCDENT EQU X'0041' @ OF POINTER TO DISP ENTRY RTN
0043 1225+NCCCP EQU X'0043' @ OF CCP SVC INTERCEPT ADDRESS
0045 1226+NCXTB@ EQU X'0045' @ OF CCP TCB AREA START ADDRESS
0047 1227+NCXTE@ EQU X'0047' @ OF CCP TCB AREA END ADDRESS
0048 1228+NCCECB EQU X'0048' @ OF CCP COMMAND PROCESSOR ECB
0700 1229+NCHIMG EQU X'0700' @ OF CHAIN IMAGE
077C 1230+NCSBUF EQU X'077C' @ OF SYSLOG PRINT BUFFER.
0100 1231+NCPCHK EQU X'0100' @ OF PROGRAM CHECK SAVE AREA
0800 1232+NCTA@ EQU X'0800' @ OF TRANSIENT AREA
00C0 1233+NCL2PR EQU X'C0' LEVEL 2 PRIORITY
```

\$CC4#1 EQUATES -- TASK COMPLETION CODES

CCP00157

1235 * \$ETCC DF-0

1237+*****
 1238+* TASK COMPLETION CODE SYMBOLS *
 1239+*****

1241+* CODES FOR ERRORS DETECTED BY \$CC4II -- COMMUNICATIONS INTERFACE

0001	1243+TCCIOP	EQU	X'01'	INVALID OP CODE/MODIFIERS
0002	1244+TCCIOK	EQU	X'02'	INVALID OP FOR 5471 CONSOLE
0003	1245+TCCNNF	EQU	X'03'	STN NOT DEFINED IN SYSTEM
0004	1246+TCCNAP	EQU	X'04'	TERMINAL NOT ALLOCATED TO PROGRA
0005	1247+TCCNAN	EQU	X'05'	ALLOC TERM REFERENCED BY OTHER
	1248+*			THAN ALLOCATED NAME
0006	1249+TCCMBL	EQU	X'06'	BLANK STN FOR MRTS PROGRAM
0007	1250+TCCRBL	EQU	X'07'	BLANK STN AND REQUESTOR RELEASED
0008	1251+TCCIBL	EQU	X'08'	BLANK STN INVALID FOR THIS OP
0009	1252+TCCISN	EQU	X'09'	INVALID USE OF SUB-TERMINAL NAME
000A	1253+TCCNAT	EQU	X'0A'	STN NOT ASSIGNED TO TERMINAL
000B	1254+TCCITA	EQU	X'0B'	TERMINAL ATTRIBUTE SET INVALID
	1255+*			FOR TERMINAL SPECIFIED
000C	1256+TCCIOC	EQU	X'0C'	TERMINAL DOES NOT HAVE I/O
	1257+*			CAPABILITY SPECIFIED IN OPERATIN
000D	1258+TCCIOL	EQU	X'0D'	INVALID OUTPUT LENGTH
000E	1259+TCCIIL	EQU	X'0E'	INVALID INPUT LENGTH
000F	1260+TCCTPB	EQU	X'0F'	INPUT LENGTH GT TP BUFFER SIZE
0010	1261+TCCIMO	EQU	X'10'	INVALID OP WITH DATA FROM
	1262+*			PROGRAM REQUEST OUTSTANDING
0011	1263+TCCIIO	EQU	X'11'	INVALID OP WITH INVITE INPUT
	1264+*			OUTSTANDING TO THIS TERMINAL
0012	1265+TCCIAN	EQU	X'12'	ACCEPT INVALID WITH NO
	1266+*			OUTSTANDING INVITES FOR NON-NEP
0013	1267+TCCIAC	EQU	X'13'	NO OUTSTANDING INVITES FOR NEP
	1268+*			WITH ACTIVE TERMINAL COUNT NOT
	1269+*			LESS THAN MAX TERMINAL COUNT
0014	1270+TCCNIO	EQU	X'14'	INVALID OP WITH NO INVITE
	1271+*			OUTSTANDING FOR THIS TERMINAL
0015	1272+TCCIGB	EQU	X'15'	INPUT AREA NOT LARGE ENOUGH FOR
	1273+*			BSCA GET BLOCK
0016	1274+TCCICA	EQU	X'16'	COPY TO TERMINAL WITHOUT MAPPING
0017	1275+TCCICN	EQU	X'17'	COPY TO TERMINAL NAME NOT FOUND
0018	1276+TCCICT	EQU	X'18'	COPY INVALID TO 3275
0019	1277+TCCIEA	EQU	X'19'	ERASE TO TERMINAL WITHOUT MAPPING
001A	1278+TCCIPA	EQU	X'1A'	PUT OVERRIDE WITHOUT MAPPING
001B	1279+TCCIPM	EQU	X'1B'	INVALID PUT WITH MAPPING -NO EOT
001C	1280+TCCITB	EQU	X'1C'	RECORD AREA TOO SMALL FOR BSCA
	1281+*			GET WITH ITB, OR OUTPUT
	1282+*			LENGTH TOO SMALL FOR PUT - ITB
001D	1283+TCCIAI	EQU	X'1D'	ACCPET BUT IMPOSSIBLE TO RECEIVE
	1284+*			DATA FROM ANY TERMINAL WITH
	1285+*			INVITE CURRENTLY OUTSTANDING
001E	1286+TCCIKL	EQU	X'1E'	OUTPUT LENGTH TO CONSOLE
	1287+*			GREATER THAN 80
001F	1288+TCCLRG	EQU	X'1F'	OUTPUT LENGTH LARGER THAN

\$CC4#1 EQUATES -- TASK COMPLETION CODES

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	36
			1289+*					TP BUFFER SIZE
			1291+*	ERRORS DETECTED CONCERNING 'SUBR90' MOVE ROUTINE				
0020		1293+*	TCCLRP EQU	X'20'				LENGTH OF FIELDS TO BE MOVED
		1294+*						IS GREATER AS THE GIVEN BUFFER-
		1295+*						LENGTH
			1297+*	ERRORS DETECTED CONCERNING AN 'ACQUIRE TERMINAL' OPERATION				
0021		1299+*	TCCAST EQU	X'21'				ACQ OF SUB-TERMINAL NAME
0022		1300+*	TCCAkn EQU	X'22'				ACQUIRE CONSOLE
0023		1301+*	TCCAAS EQU	X'23'				ATTEMPT TO ACQUIRE AN OWNED
		1302+*						TERMINAL WHO IS NOT REQUESTOR,
		1303+*						OR IS THE REQUESTOR BUT THIS IS
		1304+*						NOT A SET ATTRIBUTES OPERATION
0024		1305+*	TCCADT EQU	X'24'				SET ATTRIBUTES TO OWNED TERMINAL
		1306+*						IN PROCESS OF BSCA DATA TRANSFER
0025		1307+*	TCCATS EQU	X'25'				TERMINAL ATTRIBUTE SET ERROR
			1309+*	ERRORS DETECTED CONCERNING A 'RELEASE TERMINAL' OPERATION				
0026		1311+*	TCCRST EQU	X'26'				RELEASE SUB-TERMINAL NAME
0027		1312+*	TCCROW EQU	X'27'				RELEASE OF BSCA TERMINAL WHICH
		1313+*						CURRENTLY OWNS THE LINE
			1315+*	ERRORS DETECTED BY THE RPG COMMUNICATIONS SERVICE ROUTINE 'SUBR92'				
0028		1317+*	TCCRPL EQU	X'28'				LENGTH SPECIFIED FOR INPUT OR
		1318+*						OUTPUT OPERATION IS GREATER THAN
		1319+*						THE RECORD LENGTH IN THE DTF
0029		1320+*	TCCRCB EQU	X'29'				PUT THEN GET OPERATION
		1321+*						PUT PENDING AND NOT FOLLOWED BY
		1322+*						A GET OF THE PUT THEN GET
			1324+*	CANCELLATION BY THE SYSTEM OPERATOR				
002A		1326+*	TCCCCN EQU	X'2A'				CONSOL CANCEL
002B		1327+*	TCCCCP EQU	X'2B'				SYSTEM OPERATOR CANCELED CCP
			1329+*	ERRORS DETECTED UPON USER PROGRAM EXIT				
002C		1331+*	TCCINV EQU	X'2C'				TASK HAD INVITES OUTSTANDING
		1332+*						AT END-OF-JOB
002D		1333+*	TCCEOT EQU	X'2D'				TASK HAS UNFINISHED BSCA EOT
		1334+*						OPERATION AT END-OF-JOB
			1336+*	FILE OPERATION ERROR -- INVALID ADD TO SHARED FILE				
002E		1338+*	TCCIVA EQU	X'2E'				INVALID ADDER
		1340+*						TERMINATION CODE FOR INVALID CHARACTER SENT TO THE 3270 SYSTEM.
002F		1342+*	TCCHAR EQU	X'2F'				ILLEGAL CHARACTER OR ADDRESS
		1343+*						SENT TO THE 3270 SYSTEM.

\$CC4#1 EQUATES -- TASK COMPLETION CODES

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	37
				1345+* RPG TERMINATION CODE				
0030		1346+TCCRIS	EQU	X'30'	PGM USED SUBR91 WITH 'SPECIAL'			
		1347+*			FILES, OR SUBR92 WITH 'EXIT/			
		1348+*			RLABL OPERATION.			
0031		1350+TCCNEJ	EQU	X'31'	NEP EOJ BEFORE SHUTDOWN			
0032		1352+TCCSQB	EQU	X'32'	NO AVAILABLE SECTOR QUEUE BLOCK			
		1353+*			FOR SHARED FILE I/O REQUEST			
		1354+*		UNCONDITIONAL HALT ISSUED FROM USER PROGRAM				
		1356+*		RPG II CODES FROM SUBR92				
0033		1358+TCC33	EQU	X'33'	INDICATOR 91 NOT RESET FOR MORE			
		1359+*			THAN TWO OPERATIONS.			
0034		1361+TCC34	EQU	X'34'	SPECIAL FILE USES SUBR92 BUT AN			
		1362+*			ARRAY IS NOT ASSOCIATED WITH			
		1363+*			THE FILE.			
		1365+*		ADDITIONAL TERMINATION CODES FROM \$CC4II - COMMUNITICATIONS INTER.				
0035		1367+TCCNDF	EQU	X'35'	DFP TERMINAL REFERENCED BY			
		1368+*			A NON-DFP TASK			
0036		1369+TCCWAT	EQU	X'36'	WAIT OPERATION DATA AREA WAS			
		1370+*			NOT 10 BYTES (24 FOR RPG)			
0037		1371+TCCNRP	EQU	X'37'	REQUIRED PORT NOT DEFINED AT			
		1372+*			ASSIGNMENT OR IT WAS RELEASED			
0038		1373+TCCPNC	EQU	X'38'	PORT COMMAND REQUEST NOT			
		1374+*			ISSUED TO AN AQUIRABLE PORT			
0039		1375+TCCRTC	EQU	X'39'	ERROR DETECTED USING RTC OPCOD			
		1376+*						
003A		1377+TCCDCN	EQU	X'3A'	TASK CANCEL WITH DUMP			
003B		1379+TCCDCP	EQU	X'3B'	CCP CANCEL WITH DUMP			
003C		1381+TCCAQG	EQU	X'3C'	GENERIC KEY GIVEN FOR A GENERIC			
		1382+*			AQUIRE OPERATION DOES NOT SELECT			
		1383+*			ANY TNT TO TEST IF ACQUIRABLE			
003D		1384+TCCAQP	EQU	X'3D'	ATTEMPT TO SET ATTRIBUTES			
		1385+*			ON A PORT TERMINAL			
003E		1386+TCCAQN	EQU	X'3E'	ATTEMPT TO AQUIRE A			
		1387+*			NON AQUIRABLE PORT			
003F		1388+TCCTCH	EQU	X'3F'	TASK CHAIN NOT SUPPORTED			
		1390+*		3741 TERMINATION CODE				
0040		1391+TCCST1	EQU	X'40'	3741 HAS INDICATED THAT			
		1392+*			STATUS WILL BE SENT BUT SENT			
		1393+*			DATA INSTEAD.			
		1395+*		SPOOL FILE UTILITY TERMINATION CODE				
0041		1396+TCCSFU	EQU	X'41'	SPOOL FILE UTILITY PGM WAS			
		1397+*			REQUESTED VIA TASK CHAINING			
		1398+*			OR PRUF			
0048		1399+TCCNMM	EQU	X'48'	ONLY MSG MODE PUTS ARE VALID			
		1400+*			TO NON-SIOC PORTS			

\$CC4#1 EQUATES -- TASK COMPLETION CODES

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ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          SCP GENERATOR  08/08/10  PAGE  38

          1402+*          CCP TERMINATION CODES FOR PROGRAM CHECK TERMINATION.
0050 1403+TCCPRT EQU   X'50'          STORAGE PROTECT VIOLATION
0051 1404+TCCQCD EQU   X'51'          INVALID Q-CODE
0052 1405+TCCOPC EQU   X'52'          INVALID OPCODE
0053 1406+TCCADR EQU   X'53'          INVALID ADDRESS
0054 1407+TCCPRV EQU   X'54'          PRIVELEGED OPERATION
          1408+*          EQU   X'55'          RESERVED FOR PROGRAM CHECK
          1409+*          EQU   X'56'          RESERVED FOR PROGRAM CHECK

          1411+*          ERRORS DETECTED FOR BSCC SIOC TERMINATION CODES.
0070 1412+TCCLDT EQU   X'70'          SIOC. LOST DATA.
0071 1413+TCCCLS EQU   X'71'          SIOC. OTHER CPU CLOCK STOPPED
0072 1414+TCCPRM EQU   X'72'          SIOC. PERM ERROR IN OTHER CPU
0073 1415+TCCABT EQU   X'73'          SIOC. ABORT FROM OTHER CPU REC

007F 1417+TCCHLT EQU   X'7F'          UNCONDITIONAL HALT FROM USER TSK

          1419+*          ERROR DETECTED BY GENERAL ENTRY INTERCEPT -- INVALID SUB-RIB

0080 1421+TCCRIB EQU   X'80'          INVALID SUB-RIB TO GENERAL ENTRY

          1423+*-----*
          1424+*          PSEUDO OPEN/CLOSE/ALLOCATE TASK COMPLETION CODES          *
          1425+*-----*

0082 1427+TCCOPN EQU   X'82'          PSUEDO-OPEN ERROR--INVALID DTF

          1429+*          CODE 82 TERMINATION SUBHALTS

0001 1431+TCC#01 EQU   X'01'          FILE NOT ALLOCATED
0002 1432+TCC#02 EQU   X'02'          FILE NAME NOT RECOGIZED
0003 1433+TCC#03 EQU   X'03'          FILE NOT ALLOCATED TO TASK
0004 1434+TCC#04 EQU   X'04'          LINES TO SKIP > MAX ALLOWED TO S
0005 1435+TCC#05 EQU   X'05'          BUFFER NOT ON 7C BOUNDARY
0006 1436+TCC#06 EQU   X'06'          CARD BUFFER NOT ALLIGNED
0007 1437+TCC#07 EQU   X'07'          NOT A VALID ACCESS
0008 1438+TCC#08 EQU   X'08'          ACCESS NOT ALLOWED FOR THIS ORGA
0009 1439+TCC#09 EQU   X'09'          ADD ACCESS,BUT SDTF NOT ADD TYPE
0010 1440+TCC#10 EQU   X'10'          LOAD ACCESS/ORGANIZATION CONFLIC
0011 1441+TCC#11 EQU   X'11'          NOT USED
0012 1442+TCC#12 EQU   X'12'          ISA/ISUA ACCESS BUT PREVIOUS ADD
0013 1443+TCC#13 EQU   X'13'          Q BYTES NOT COMPATIBLE
0014 1444+TCC#14 EQU   X'14'          RECORD OR KEY LENGTH,OR KEY DISP
0015 1445+TCC#15 EQU   X'15'          DEADLY EMBRACE
0016 1446+TCC#16 EQU   X'16'          NOT USED
0017 1447+TCC#17 EQU   X'17'          NOT USED
0018 1448+TCC#18 EQU   X'18'          ATTEMPT TO OPEN AS CA OR IR WHIL
0019 1449+TCC#19 EQU   X'19'          NOT RECOMPILED FOR RELEASE 3
0020 1450+TCC#20 EQU   X'20'          NOT A RANDOM ACCESS
0021 1451+TCC#21 EQU   X'21'          OPEN AS MVF BUT NOT FIRST VOLUME
0022 1452+TCC#22 EQU   X'22'          MORE THAN 4 VOLUMES
0023 1453+TCC#23 EQU   X'23'          NOT INDEXED OR DIRECT
0024 1454+TCC#24 EQU   X'24'          NOT ENOUGH SDTF'S CHAINED (INDEX
0025 1455+TCC#25 EQU   X'25'          NO SHARE FILE WANTED BUT IN USE
0026 1456+TCC#26 EQU   X'26'          UNORDERED LOAD ACCESS IN DTF;NOT

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\$CC4#1 EQUATES -- TASK COMPLETION CODES

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	39
		0027	1457+TCC#27	EQU	X'27'				
			1458+*						
									FILE SHARE CONFLICT(NO FSQE'S OR ACCESS BUT OPEN AS SHARE)
		0083	1460+TCCFSA	EQU	X'83'				
									DTF OR IOB EXTENDS INTO FSA
		0084	1462+TCCDER	EQU	X'84'				
			1463+*						I/O ERROR WHILE PRIMING OR PURGING BUFFERS DURING OPEN/CLS
		008B	1465+TCCALC	EQU	X'8B'				
									PSEUDO-ALLOCATE UNOWNED DEVICE

\$CC4#1 EQUATES -- COMMUNICATIONS PARAMETER LIST

CCP00159

1469 * \$ECPL
 1470+*****
 1471+* C O M M U N I C A T I O N S P A R A M E T E R L I S T *
 1472+*****

0000 1474+CCPPL EQU 0 BEGINNING OF PARAMETER LIST.
 0001 1476+PLRTC EQU CCPPL+2-1 REQUESTERS RETURN CODE.
 0001 1477+PLCHN EQU PLRTC PARM LIST CHAIN PTR. * CM ONLY *
 0002 1479+PLOPM EQU PLRTC+1 REQUESTERS OP CODE MODIFIERS.
 0003 1480+PLOPC EQU PLOPM+1 REQUESTERS OP CODE.
 0005 1482+PLOUTL EQU PLOPC+2 OUTPUT LENGTH.
 0005 1483+PLEFFL EQU PLOUTL EFFECTIVE INPUT LENGTH.
 0005 1484+PLASID EQU PLOUTL TERMINAL ATTRIBUTE SET ID.
 0007 1486+PLINL EQU PLOUTL+2 MAXIMUM INPUT LENGTH.
 0009 1488+PLRECA EQU PLINL+2 RECORD AREA ADDRESS.
 000B 1490+PLTUBA EQU PLRECA+2 TUB ADDRESS. ** CM ONLY **
 000C 1492+PL\$OPM EQU PLTUBA+1 INTERNAL OPERATION CODE.
 000D 1494+PL\$OPC EQU PL\$OPM+1 SAVED INTERNAL OP.*CM BSCA ONLY*
 000D 1495+PL\$MCT EQU PL\$OPC MCT INDICES. *CM MLTA ONLY*
 000F 1497+PL\$RTC EQU PL\$OPC+2 INTERNAL RETURN CODE. ** CM **
 000F 1498+PL\$TNT EQU PL\$RTC ADDRESS OF TNT ENTRY ** II **
 000F 1500+PLENDS EQU PL\$TNT END OF PARAMETER LIST
 0010 1502+PLECB EQU PL\$RTC+1 PARAMETER LIST'S ECB.
 0010 1504+PLLNG EQU PLECB-CCPPL PARAMETER LIST LENGTH
 0013 1506+PLLEN EQU PLECB-CCPPL+3 LENGTH OF TP REQUEST PARM LIST.

1508+*-----*
 1509+* PLOPM-OP CODE MODIFIER *
 0080 1510+OPREQR EQU BIT0 ON-SYSTEM REQUEST. *
 1511+* OFF-USER REQUEST. *
 0080 1512+OP\$SYS EQU OPREQR SYSTEM IS REQUESTER. *
 0040 1513+OPOLT EQU BIT1 PROGRAM INITIATED ONLINE TEST. *
 0020 1514+OPDISC EQU BIT2 DISCONNECT THE LINE. *
 0010 1515+OPPRT EQU BIT3 3270 PRINT OPERATION. *
 0008 1516+OPLIST EQU BIT4 3270 MAPPING SPECIAL LIST. *
 0004 1517+OPSTOP EQU BIT5 STOP OPERATION. *
 0002 1518+OPSOL EQU BIT6 1-SUPPRESS START NEW LINE. *
 1519+* 0-ASSURE TYPEWRITER BEGINS AT *
 1520+* THE START OF A LINE. *
 0001 1521+OPEOL EQU BIT7 1-SUPPRESS END NEW LINE. *
 1522+* 0-ASSURE TYPEWRITER ENDS AT THE*

\$CC4#1 EQUATES -- COMMUNICATIONS PARAMETER LIST

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 41

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1523+* START OF A LINE. *
0001 1524+OPDLY EQU BIT7 SHUTDOWN DELAY MODIFIER *
1525+*-----*

1527+*-----*
1528+* PLOPC-OPERATION CODE *
1529+* NUMERIC VALUES (BITS 0-3) *
0000 1530+OPSTD EQU X'00' STANDARD UNIT OF DATA.(RECORD) *
0010 1531+OPOPTN EQU X'10' SPECIAL OPERATION OPTION *
0010 1532+OPKPL EQU X'10' ON RELEASE OP -- KEEP THE LINE.*
0010 1533+OPSTA EQU X'10' ON ACQUIRE OP -- SET ATTRIBUTES*
0010 1534+OPRVI EQU X'10' GET DATA -- SEND RVI RESPONSE. *
0010 1535+OPLINE EQU X'10' LINE OPERATION- LIKE PURGE LINE*
0020 1536+OPBLK EQU X'20' UNIT OF DATA = BLOCK. *
0030 1537+OPMSG EQU X'30' UNIT OF DATA = MESSAGE. *
0040 1538+OPCOPY EQU X'40' 3270 COPY OPERATION. *
0050 1539+OPEAU EQU X'50' 3270 ERASE-ALL-UNPROTECTED FLDS*
0070 1540+OPRUF EQU X'70' 3270 READ UNDER FORMAT CONTROL *
00F0 1541+OPORDR EQU X'F0' MASK FOR ORDER HALF BYTE. *
1542+* BINARY VALUES (BITS 4-7) *
0008 1543+OPSTAT EQU BIT4 STATUS OPERATION. *
0004 1544+OPNOW EQU BIT5 NO-WAIT OPERATION. *
0002 1545+OPPUT EQU BIT6 OUTPUT OPERATION. *
0001 1546+OPGET EQU BIT7 INPUT OPERATION. *
1547+* EFFECTIVE OP CODES *
0000 1548+OPSHQ EQU 0 SHUTDOWN INQUIRY. *
0003 1549+OPPTG EQU OPPUT+OPGET PUT-THEN-GET. *
0013 1550+OPPURG EQU OPPUT+OPGET+OPLINE PURGE REQUEST *
0004 1551+OPACI EQU BIT5 ACCEPT INPUT. (WAIT) *
0044 1552+OPANW EQU OPACI+BIT1 ACCEPT-NO-WAIT INPUT. *
0014 1553+OPWAIT EQU OPACI+OPOPTN WAIT OPERATION. *
0005 1554+OPINV EQU OPGET+OPNOW INVITE INPUT. *
0006 1555+OPPNW EQU OPPUT+OPNOW PUT NO WAIT. *
0008 1556+OPGTA EQU OPSTAT GET TERMINAL ATTRIBUTES. *
0009 1557+OPACQ EQU OPSTAT+OPGET ACQUIRE TERMINAL. *
0029 1558+OPCMDT EQU OPSTAT+OPGET+BIT2 ACQUIRE COMMAND TERM. NON-PRUF *
0069 1559+OPAQG EQU OPSTAT+OPGET+BIT2+BIT1 GENERIC ACQUIRE PORT TERM. *
000A 1560+OPREL EQU OPSTAT+OPPUT RELEASE TERMINAL. *
004A 1561+OPRTC EQU OPSTAT+OPPUT+BIT1 RELEASE AND TASK CHAIN. *
002A 1562+OPTCHN EQU OPSTAT+OPPUT+BIT2 TASK CHAIN REQUEST OPCODE *
003A 1563+OPPCR EQU OPSTAT+OPPUT+OPMSG PORT COMMAND REQUEST OPCODE *
003D 1564+OPDMY EQU OPSTAT+OPNOW+OPGET+OPMSG DUMMY PORT INPUT PARM LIST. *
0080 1565+OPJRSH EQU BIT0 RESCHEDULE ONLY REQUEST *
1566+*-----*

1568+*-----*
1569+* PLOPC / PLOPM OPERATION CODE COMBINATIONS *
1570+* *
1571+* USER-ISSUED OPERATION CODES *
1572+* *
1573+* X'0000' SHUTDOWN INQUIRY *
1574+* X'0001' GET RECORD *
1575+* X'0002' PUT RECORD *
1576+* X'0003' PUT THEN GET *
1577+* X'0004' ACCEPT INPUT *
1578+* X'0005' INVITE INPUT *

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\$CC4#1 EQUATES -- COMMUNICATIONS PARAMETER LIST

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	42
			1579+*	X'0006'	PUT-NO-WAIT RECORD			*
			1580+*	X'0008'	GET TERMINAL ATTRIBUTES			*
			1581+*	X'0009'	ACQUIRE TERMINAL			*
			1582+*	X'000A'	RELEASE TERMINAL (DROP)			*
			1583+*	X'0011'	GET - RVI RESPONSE			*
			1584+*	X'0014'	WAIT OPERATION			*
			1585+*	X'0019'	ACQUIRE AND SET ATTRIBUTES			*
			1586+*	X'001A'	RELEASE TERMINAL (KEEP)			*
			1587+*	X'0021'	GET BLOCK			*
			1588+*	X'0022'	PUT BLOCK			*
			1589+*	X'0023'	PUT-THEN-GET BLOCK			*
			1590+*	X'0026'	PUT-NO-WAIT BLOCK			*
			1591+*	X'0029'	AQUIRE NON-PRUF COMMAND TERM			*
			1592+*	X'002A'	TASK CHAIN REQUEST(OLE)			*
			1593+*	X'0031'	GET MESSAGE			*
			1594+*	X'0032'	PUT MESSAGE			*
			1595+*	X'0033'	PUT-THEN-GET MESSAGE			*
			1596+*	X'0042'	DFP COPY OPERATION			*
			1597+*	X'0044'	ACCEPT-NO-WAIT INPUT			*
			1598+*	X'004A'	RELEASE AND TASK CHAIN			*
			1599+*	X'0052'	DFP ERASE OPERATION			*
			1600+*	X'0072'	RUF PUT MESSAGE			*
			1601+*	X'0401'	STOP INVITE INPUT			*
			1602+*					*
			1603+*		SYSTEM-ISSUED OPERATION CODES			*
			1604+*					*
			1605+*	X'8002'	SYSTEM PUT			*
			1606+*	X'8005'	SYSTEM INVITE INPUT			*
			1607+*	X'8006'	SYSTEM PUT-NO-WAIT			*
			1608+*	X'8007'	SYSTEM PUT-NO-WAIT INVITE			*
			1609+*	X'8401'	SYSTEM STOP INVITE			*
			1610+*	X'8403'	SYSTEM PURGE OF TERMINAL			*
			1611+*	X'8413'	SYSTEM PURGE OF WHOLE LINE			*
			1612+*	X'A006'	SYSTEM PUT DISCONNECT			*
			1613+*	X'A413'	SYSTEM PURGE AND PUT DISCONNECT			*
			1614+*					*
			1615+*	-----				*
			1617+*	-----				*
			1618+*		PL\$OPM-INTERNAL OP CODE			*
0080			1619+*	OPGETM EQU BIT0	1-NEED TO GETMAIN STORAGE FOR			*
			1620+*		* THIS TP REQUEST.			*
0040			1621+*	OPGETQ EQU BIT1	1-NEED GETMAIN TO FINISH			*
			1622+*		* QUEUEING THIS REQUEST.			*
0020			1623+*	OPNPST EQU BIT2	DON'T POST PURGED PUT.MLTA ONLY			*
0010			1624+*	OPBNOP EQU BIT3	DON'T POST ERP OP END.BSCA ONLY			*
			1625+*					*
			1626+*		BITS 4-7 ARE THE SAME AS FOR PLOPC.			*
			1627+*	-----				*
			1629+*	-----				*
			1630+*		PL\$OPC- SAVED INTERNAL OP ** BSCA ONLY **			*
0080			1631+*	OPRFSH EQU BIT0	SEND REFRESH MSG TO 3270.			*
0040			1632+*	OPLSNS EQU BIT1	POLL FOR TERMINAL STATUS.			*
0020			1633+*	OPUSER EQU BIT2	FUNCTION, 1-SYSTEM, 0-USER.			*
0010			1634+*	OPSTCM EQU BIT3	STOP INVITE PARM LIST HANDLED.			*

\$CC4#1 EQUATES -- COMMUNICATIONS PARAMETER LIST

1635+* *
 1636+* BITS 4-7 ARE THE SAME AS FOR PLOPC. *
 1637+*-----*

1639+*-----*
 1640+* PL\$RTC-INTERNAL RETURN CODE *
 1641+* *

1642+* SUCCESSFUL OP CODE *
 1643+* PL\$RTC=00XX, FOR XX AS FOLLOWS: *

0000 1644+RCOK EQU X'00' SUCCESSFUL OPERATION. (00) *
 000E 1645+RCOKTC EQU X'0E' TC ACCEPT INPUT OKAY. (14) *

1646+* *
 1647+* EXCEPTION RETURN CODES *
 1648+* PL\$RTC=00XX, FOR XX AS FOLLOWS: *

0001 1649+RCXDTR EQU X'01' DATA TRUNCATED. *
 0002 1650+RCXEOT EQU X'02' EOT RECEIVED. *
 0003 1651+RCXEDT EQU X'03' EOT RECEIVED AND DATA TRUNCATED *

1652+* DATA TRANSFER IS VALID ONLY FOR OPERATIONS WHICH YIELD RETURN *
 1653+* CODES OF 0, +1, +2, +3, OR +6. *

0004 1654+RCXSHD EQU X'04' SHUTDOWN REQUESTED. *
 0005 1655+RCXDPD EQU X'05' DATA PENDING ON BSCA LINE. *
 0006 1656+RCXRVI EQU X'06' RVI/TERMINAL INTERRUPT RECEIVED*
 0007 1657+RCXCLR EQU X'07' 3270 CLEAR KEY RECEIVED. *
 0008 1658+RCXNAV EQU X'08' TERMINAL NO LONGER AVAILABLE. *
 0009 1659+RCXOFF EQU X'09' TERMINAL OFFLINE. *
 000A 1660+RCXSPI EQU X'0A' STOP INVITE INPUT SUCCESSFUL. *
 000B 1661+RCXNAQ EQU X'0B' ACQUIRE TERMINAL FAILED. *
 000C 1662+RCXNTC EQU X'0C' NO TASK CHAIN TUBS AVALABLE. *
 000D 1663+RCXNTP EQU X'0D' TPBUFFER SPACE NOT AVALABLE. *
 000F 1664+RCXNTR EQU X'0F' TC ACCEPT WITH DATA TRUNCATED. *
 0010 1665+RCXNAC EQU X'10' ACC-NO-WAIT RETURNED NO DATA. *
 0011 1666+RCXSHP EQU X'11' SHUTDOWN PENDING RETURN CODE. *
 007E 1667+RCXNIQ EQU X'7E' SPI FAILED-NO INVITE IN Q. *
 007F 1668+RCXSPF EQU X'7F' STOP INVITE INPUT FAILED. *

1669+* *
 1670+* PORT TERMINATION CODES. *
 1671+* PL\$RTC=40XX, TERMINATE TASK WITH XX. *

0040 1672+RCRTRM EQU X'40' PORT TERMINATION CODE FOLLOWS *

1673+* *
 1674+* I/O ERROR RETURN CODES *
 1675+* PL\$RTC=FFXX, FOR XX AS FOLLOWS: *

00FF 1676+RCRDCK EQU X'FF' DATA CHECK. *
 00FE 1677+RCRTRN EQU X'FE' TRANSLATION ERROR. *
 00FD 1678+RCRLST EQU X'FD' LOST DATA. *
 00FC 1679+RCRPBS EQU X'FC' PERMANENT BI-SYNC ERROR. *
 00FB 1680+RCRABN EQU X'FB' ABNORMAL RESPONSE. *
 00FA 1681+RCRXRA EQU X'FA' TRANSMIT/RECEIVE ABORT. *
 00F9 1682+RCRATO EQU X'F9' ADDRESSING TIMEOUT. *
 00F8 1683+RCRTTO EQU X'F8' TEXT TIMEOUT. *
 00F7 1684+RCRWTO EQU X'F7' WACK/TTD EXPIRATION. *
 00F6 1685+RCRNOC EQU X'F6' NO CONNECTION. *
 00F5 1686+RCRIID EQU X'F5' INVALID ID. *
 00F4 1687+RCRABD EQU X'F4' ABORT, DISCONNECT. *
 00F3 1688+RCRADC EQU X'F3' ADAPTER CHECK. *

\$CC4#1 EQUATES -- COMMUNICATIONS PARAMETER LIST

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	44
		00F2	1689+RCR2DU	EQU	X'F2'				
			1690+*						
			1691+*						
			1692+*						
		00EC	1693+RCR2DU	EQU	X'EC'				
		00EA	1694+RCR2ED	EQU	X'EA'				
		00E9	1695+RCR2TE	EQU	X'E9'				
		00E8	1696+RCR2CD	EQU	X'E8'				
		00E7	1697+RCR2PD	EQU	X'E7'				
		00E6	1698+RCR2PO	EQU	X'E6'				
		00E5	1699+RCR2PB	EQU	X'E5'				
		00E4	1700+RCR2PC	EQU	X'E4'				
		00E3	1701+RCR2IDR	EQU	X'E3'				
			1702+*						
			1703+*						
			1704+*						
			1705+*						
		00D8	1706+RCR5SR	EQU	X'D8'				
		00D7	1707+RCR5IC	EQU	X'D7'				
		00D6	1708+RCR5OF	EQU	X'D6'				
		00D5	1709+RCR5DF	EQU	X'D5'				
		00D4	1710+RCR5RF	EQU	X'D4'				
		00D3	1711+RCR5UH	EQU	X'D3'				
		00D2	1712+RCR5DE	EQU	X'D2'				
		0100	1713+RCR7ZR	EQU	256				
		00CE	1714+RCR7TE	EQU	RCR7ZR-50				
		00CD	1715+RCR7NA	EQU	RCR7ZR-51				
		00CC	1716+RCR7DC	EQU	RCR7ZR-52				
		00CB	1717+RCR7LB	EQU	RCR7ZR-53				
		00CA	1718+RCR7WL	EQU	RCR7ZR-54				
		00C9	1719+RCR7RP	EQU	RCR7ZR-55				
		00C8	1720+RCR7SC	EQU	RCR7ZR-56				
		00C7	1721+RCR7DO	EQU	RCR7ZR-57				
		00C6	1722+RCR7BE	EQU	RCR7ZR-58				
		00C5	1723+RCR7BT	EQU	RCR7ZR-59				
		00C4	1724+RCR7LE	EQU	RCR7ZR-60				
		00C3	1725+RCR7NF	EQU	RCR7ZR-61				
		00C2	1726+RCR7SE	EQU	RCR7ZR-62				
		00C1	1727+RCR7RE	EQU	RCR7ZR-63				
		00C0	1728+RCR7WE	EQU	RCR7ZR-64				
		00BF	1729+RCR7NR	EQU	RCR7ZR-65				
		00BE	1730+RCR7WP	EQU	RCR7ZR-66				
			1731+*						

NEGATIVE RESPONSE TO ADDRESSING*
 *
 3270 I/O ERROR RETURN CODES *
 PL\$RTC=FFXX, FOR XX AS FOLLOWS: *
 DEVICE UNAVAIL OR NOT READY. *
 EQUIPMENT CHECK, DEVICE END. *
 TCU DETECTION OF BSCA ERROR. *
 CTL CHECK, DATA CHK, DEV BUSY. *
 DATA CHECK ON COPY COMMAND. *
 OPERATION CHECK ON COPY COMMAND*
 DEVICE BUSY ON COPY COMMAND. *
 CTL CHK/OP CHK/DATA CHK ON COPY*
 INVALID DATA RECEIVED FROM A *
 3270 USING DFF SUPPORT. *
 *
 3735 I/O ERROR RETURN CODES *
 PL\$RTC=FFXX, FOR XX AS FOLLOWS: *
 ATTEMPTED SEND BEFORE RECEIVE. *
 ILLEGAL CHARACTER. *
 BUFFER OVERFLOW. *
 DISK FULL. *
 DIRECTORY FULL. *
 UNDEFINED HEADER. *
 3735 DISK ERROR. *
 BASE FOR NEGATIVE NUMBERS *
 TRANSPERANCY ERROR OCCURED *
 NO ACTIVITY ON THE LINE *
 DATA CHECK *
 RECEIVED LINE BID ERROR *
 WRONG LENGTH ERROR *
 RESET PRESSED ON 3741 *
 SECURITY CHECK *
 DISK OVERFLOW *
 BAD EXTENT ERROR *
 BOTH STATIONS TRANSMIT. *
 LENGTH ERROR *
 NO RECORD FOUND *
 SEEK ERROR *
 READ ERROR *
 WRITE ERROR *
 3741 NOT READY *
 DISKETTE IS WRITE PROTECTED. *

\$CC4#1 EQUATES -- TERMINAL ATTRIBUTES SET

1734 * \$ETAS CCP00161
 1735+*****
 1736+* T E R M I N A L A T T R I B U T E S S E T *
 1737+*****

0000 1739+TASCCP EQU 0 BEGINNING OF TAS ENTRY

1741+* ATTRIBUTES BYTE 1

0000 1743+TASAT1 EQU TASCCP-1+1 ATTRIBUTE BYTE 1

0080 1745+TASTRN EQU BIT0 0-TRANSLATE
 1746+* 1-DON'T TRANSLATE
 0040 1747+TASCAS EQU BIT1 0-FORCE UPPER CASE TRANSLATE
 1748+* 1-DO NOT FORCE UPPER CASE
 0020 1749+TASCNC EQU BIT2 0-ON SWITCHED LINE, ANSWER
 1750+* 1-ON SWITCHED LINE, CALL OUT
 0010 1751+TASAUT EQU BIT3 0-ON SW LINE, MANUAL CONNECT
 1752+* 1-ON SW LINE, AUTO CONNECT
 0008 1753+TASINX EQU BIT4 0-TUBBKF IS BLOCKING FACTOR
 1754+* 1-TUBBKF IS INDEX TO CURRENT TAS
 0006 1755+TASRSV EQU BIT5+BIT6 RESERVED BITS
 0001 1756+TASDFE EQU BIT7 0-DO NOT USE DFE
 1757+* 1-USE DISPLAY FORMAT FACILITY

1759+* ATTRIBUTES BYTE 2

0001 1761+TASAT2 EQU TASAT1+1 ATTRIBUTE BYTE 2

0080 1763+TASREC EQU BIT0 0-DATA FORMAT IS NOT RECORD MODE
 1764+* 1-DATA FORMAT IS RECORD MODE
 0040 1765+TASBLK EQU BIT1 0-DATA FORMAT NOT BLOCK MODE
 1766+* 1-DATA FORMAT IS BLOCK MODE
 0020 1767+TASMSG EQU BIT2 0-DATA FORMAT NOT MESSAGE MODE
 1768+* 1-DATA FORMAT IS MESSAGE MODE
 0010 1769+TASITB EQU BIT3 0-NO ITB SUPPORT
 1770+* 1-ITB SUPPORT
 0008 1771+TASTSP EQU BIT4 0-NON-TRANSPARENCY MODE
 1772+* 1-TRANSPARENCY MODE
 0004 1773+TASVFY EQU BIT5 0-VERIFY EXCHANGE ID
 1774+* 1-NO EXCHANGE ID VERIFICATION
 0002 1775+TASPN EQU BIT6 0-NO SPANNED RECORD SUPPORT
 1776+* 1-SUPPORT SPANNED RECORDS
 0001 1777+TASVRL EQU BIT7 0-NO VARIABLE LENGTH SUPPORT
 1778+* 1-SUPPORT VARIABLE LENGTH RECORD

1780+* RECORD AND BLOCK LENGTHS

0003 1782+TASRCL EQU TASAT2+2 RECORD LENGTH
 0004 1784+TASBKF EQU TASRCL+1 BLOCKING FACTOR
 0005 1786+TASLN EQU TASBKF-TASCCP+1 LENGTH OF TERMINAL ATTRIBUTE SET

\$CC4#1 EQUATES -- TERMINAL UNIT BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	46
			1789	*	\$SETUB				CCP00163
			1790	+	*****				
			1791	+	*****				
			1792	+	*****				
			1793	+	TUBCCP EQU 0				BEGINNING OF TUB
			1794	+	TUBID EQU TUBCCP+1				TERMINAL PHYSICAL ID (2 BYTES)
			1796	+	TUBPL@ EQU TUBID+2				LAST PARAMETER LIST FOR TUB
			1797	+	TUBER@ EQU TUBPL@+2				PARAMETER LIST IN ERP
			1798	+	TUBDM@ EQU TUBER@+2				PARAMETER LIST AT TIME OF DME
			1800	+	TUBSID EQU TUBDM@+1				INTERNAL TERMINAL ID (BSCA ONLY)
			1802	+	TUBSCS EQU TUBSID+1				BSCA STATUS BYTES (BSCA ONLY)
			1803	+	TUBCLR EQU BIT0				* 1-3270 CLEAR KEY DEPRESSED
			1804	+	TUBDME EQU BIT1				* 1-DME CHECK SUCCESSFUL
			1805	+	TUBDMF EQU BIT2				* 1-DME CHECK FAILED
			1806	+	TUBSWA EQU BIT3				* 1-SWITCHED LINE DEVICE HANDLED
			1807	+	*				* DURING PREVIOUS SYS PURGE.
			1808	+	TUBSSP EQU BIT4				* 1-STOP STATUS POLLING
			1809	+	TUBRUF EQU BIT5				* 1-RUF DATA ON SCREEN(3270 DFF)
			1810	+	TUBPRG EQU BIT6				* 1-PORT TUB IN PURG MODE.
			1811	+	TUBBPT EQU BIT7				* 1-BUSY PRINT ALLOWED
			1813	+	TUBTMA EQU TUBSCS				2 BYTE TERMINAL ADDR (MLTA ONLY)
			1814	+	*				OVERLAYS TUBSID AND TUBSCS
			1816	+	* ATTRIBUTES AND STATUS BYTES				
			1817	+	TUBCHR EQU TUBTMA+1				TERMINAL CHARACTERISTICS
			1818	+	TUBLNE EQU BIT0				1-BSCA LINE
			1819	+	TUB@SL EQU BIT1				1-TYPWTR DEVICE AT START OF LINE
			1820	+	TUBTYP EQU BIT2				1-MLTA TYPEWRITER DEVICE
			1821	+	TUBNID EQU BIT3				1-NEED IDLES AT BEGIN OF LINE
			1822	+	TUBCMN EQU BIT4				1-COMMAND (CAPABLE) TERMINAL
			1823	+	TUBMCT EQU BIT5				1-MULTI-COMPONENT TERMINAL
			1824	+	TUBOUT EQU BIT6				1-TERMINAL CAPABLE OF OUTPUT
			1825	+	TUBINP EQU BIT7				1-TERMINAL CAPABLE OF INPUT
			1827	+	TUBAT1 EQU TUBCHR+1				TERMINAL ATTRIBUTES BYTE 1
			1828	+	TUBKNM EQU BIT0				1-THIS TUB IS FOR CONSOLE
			1829	+	TUBDPY EQU BIT1				1-IN USE BY DISPLAY
			1830	+	TUBONL EQU BIT2				1-TERMINAL IS ONLINE
			1831	+	TUBSGN EQU BIT3				1-COMMAND TERMINAL IS SIGNED ON
			1832	+	TUBQUE EQU BIT4				1-COMMAND TERMINAL IN /Q STATUS
			1833	+	TUBREQ EQU BIT5				1-TERMINAL IS REQUESTER OF PGM
			1834	+	TUBSWC EQU BIT6				1-TERMINAL ON SWITCHED LINE
			1835	+	TUBOFF EQU BIT7				1-CMD TERM SIGNOFF DEFAULT=HOLD
			1837	+	TUBAT2 EQU TUBAT1+1				TERMINAL ATTR BYTE 2
			1838	+	TUBDTA EQU BIT0				1-TERMINAL IN DATA MODE
			1839	+	TUBCMD EQU BIT1				1-TERMINAL IN COMMAND MODE
			1840	+	*				* DTA/CMD/TERMINAL MODE
			1841	+	*				* 0 0 INITIAL
			1842	+	*				* 0 1 COMMAND
			1843	+	*				* 1 0 DATA
			1844	+	*				* 1 1 COMMAND INTERRUPT

\$CC4#1 EQUATES -- TERMINAL UNIT BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	47
		0020	1845+	TUBIMI EQU	BIT2				1-OUTSTANDING DATA FROM PGM RQST
		0010	1846+	TUBIIS EQU	BIT3				1-INVITE OR GET SCHEDULED
		0008	1847+	TUBIIQ EQU	BIT4				1-INVITE COMPLETE -- ON TCBINQ
			1848+*						0-NO OUTSTANDING COMPLETE INVITE
		0004	1849+	TUBOLT EQU	BIT5				1-CURRENTLY RUNNING ONLINE TEST
		0002	1850+	TUBAPP EQU	BIT6				1-ALLOCATION PENDING ON THIS TUB
		0001	1851+	TUBOWN EQU	BIT7				1-TERMINAL NOW COMMUNICATING ON
			1852+*						* BSCA LINE--EOT NOT SENT/RECD
		000D	1854+	TUBAT3 EQU	TUBAT2+1				TERMINAL ATTRIBUTE BYTE 3
		0080	1855+	TUBRTY EQU	BIT0				TUB HAS BEEN RETRIED THIS TIME
		0040	1856+	TUBSPF EQU	BIT1				1-STOP POLLING FAILED
		0020	1857+	TUBCNC EQU	BIT2				1-/RELEASE BY TERMINAL OPERATOR
		0010	1858+	TUBERP EQU	BIT3				1-TERMINAL ERROR -- AWAITING ERP
		0008	1859+	TUBALC EQU	BIT4				1-PHYSICALLY ALLOCATED
			1860+*						BUT NOT LOGICALLY
			1861+*						ALLOCATED,(NO I/O POSSIBLE)
			1862+*						0-IS ALLOCATED TO THE
			1863+*						TCB POINTED TO BY TUBTCB
		0004	1864+	TUBVFP EQU	BIT5				1-VARY OFFLINE PENDING
		0002	1865+	TUBSPP EQU	BIT6				1-STOP POLLING PENDING TO TERM'L
			1866+*						* IN COMMAND INTERRUPT MODE
		0001	1867+	TUBSWL EQU	BIT7				1-DISCARD ABORTED INPUT DATA
		000E	1869+	TUBAT4 EQU	TUBAT3+1				TERMINAL ATTRIBUTES BYTE 1
		0080	1870+	TUBCHN EQU	BIT0				1-DUMMY TUB FOR TASK CHAINING
		0040	1871+	TUBTRM EQU	BIT1				1-TUB IN PROCESS OF SYS INVITE
		0020	1872+	TUBYUK EQU	BIT2				1-YUKON BSCA LINES 3 OR 4
		0010	1873+	TUBAER EQU	BIT3				1-AUTO ERROR RECOVERY SPECIFIED
		0008	1874+	TUBEMS EQU	BIT4				1-ERP MESSAGE SENT TO CONSOLE
		0004	1875+	TUBPCB EQU	BIT5				1-PORT CONTROL BLOCK (TUB)
		0002	1876+	TUBBSY EQU	BIT6				1-TUB TO BE CHECKED FOR BUSY
		0001	1877+	TUBWAT EQU	BIT7				1-WAIT FOR RESPONCE TO BUSY
			1879+*	QUEUE CHAIN FIELDS					
		0010	1880+	TUBINQ EQU	TUBAT4+2				GET INVITE INPUT QUEUE
			1881+*						POINTS TO NEXT TUB IN CHAIN
		0012	1882+	TUBTCB EQU	TUBINQ+2				@ OF TCB
		0014	1883+	TUBTUB EQU	TUBTCB+2				NEXT TUB ADDR BY TCBTUB
		0014	1884+	TUBPST EQU	TUBTUB				NEXT TUB ON ALLOCATION QUEUE
		0016	1885+	TUBLCB EQU	TUBTUB+2				ADDR OF LINE DTF (LCB)
		0016	1886+	TUBDTF EQU	TUBLCB				
		0018	1887+	TUBTNT EQU	TUBLCB+2				ADDR OF TNT ENTRY
		001A	1888+	TUBFSB EQU	TUBTNT+2				ADDR OF 1ST ENTRY FOR THIS
			1889+*						TERMINAL IN FILE SPEC BLOCK
			1891+*	TASK CHAINING TUB EQUATES					
		001A	1892+	TUBPNM EQU	TUBTUB+6				NAME FIELD
		001B	1893+	TUBDPL EQU	TUBPNM+1				DISP TO PL IN TASK CHAIN TUB
		002E	1894+	TUBDLN EQU	TUBDPL+19				LEN OF TASK CHAIN TUB
			1895+*	END OF TASK CHAIN TUB					
			1897+*	ONLINE TEST FIELDS					
		001B	1898+	TUBOTC EQU	TUBFSB+1				TERMINAL ONLINE TEST CONTROL BYT
			1899+*						M L T A SPECS *
		0080	1900+	TUBLOP EQU	BIT0				* 1-LOOPING TEST SPECIFIED

\$CC4#1 EQUATES -- TERMINAL UNIT BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	48
		0040	1901+	TUBALL	EQU BIT1				* 1-MULTIPLE TESTS SPECIFIED
		000F	1902+	TUBTNR	EQU BIT4+BIT5+BIT6+BIT7				BINARY NUMBER OF SINGLE TEST
			1903+	*					THIS BYTE - X'FF' SPECIFIES STOP
		001C	1905+	TUBCMA	EQU TUBOTC+1				MCT COMPONENT INDEX FOR OLT
			1907+	*	TERMINAL ATTRIBUTE SET FIELDS				
		001D	1908+	TUBTAS	EQU TUBCMA+1				INDEX OF STANDARD ATTRIBUTE SET
		001E	1910+	TUBTA1	EQU TUBTAS+1				1ST BYTE OF TERMINAL ATTRIBUTES
		001F	1911+	TUBTA2	EQU TUBTA1+1				2ND BYTE OF TERMINAL ATTRIBUTES
		0021	1912+	TUBRCL	EQU TUBTA2+2				BSCA RECORD LENGTH
		0021	1913+	TUBVCS	EQU TUBRCL				1-BYTE SAVE AREA FOR I/O
			1914+	*					COMPONENTS FOR MLTA MCT
		0022	1915+	TUBBKF	EQU TUBRCL+1				BSCA BLOCKING FACTOR
		0022	1917+	TUBCAS	EQU TUBTAS+5				DEFINES ALL 5 PRECEDING BYTES
			1919+	*	TERMINAL TYPE FIELD				
		0023	1920+	TUBPHY	EQU TUBCAS+1				PHYSICAL TERMINAL TYPE--VALUES:
		0000	1921+	TUBCON	EQU 0				.0 - CONSOLE
		0001	1922+	TUBMLT	EQU 1				.1 - MLTA NON-1050
		0002	1923+	TUB105	EQU 2				.2 - MLTA 1050
		0003	1924+	TUB7M1	EQU 3				.3 - 3277/84/86 MODEL 1 (480)
		0004	1925+	TUB7M2	EQU 4				.4 - 3277/84/86 MODEL 2 (1920)
		0005	1926+	TUB5M1	EQU 5				.5 - 3275 MODEL 1 (480)
		0006	1927+	TUB5M2	EQU 6				.6 - 3275 MODEL 2 (1920)
		0007	1928+	TUB375	EQU 7				.7 - 3735
		0008	1929+	TUBCPU	EQU 8				.8 - CPU
		0009	1930+	TUB374	EQU 9				.9 - 3741
		000A	1931+	TUBAPT	EQU 10				10 - AQQ PORT.
		000B	1932+	TUBNPT	EQU 11				11 - NON-AQQ PORT.
			1934+	*	MULTI-COMPONENT TERMINAL PRINCIPAL COMPONENT INDEXES				
		0024	1935+	TUBPCS	EQU TUBPHY+1				PRINCIPAL COMPONENTS FOR 1050
		0025	1936+	TUBVHR	EQU TUBPCS+1				SAVE AREA FOR TUBCHR FOR MLTA
		0026	1937+	TUBPIL	EQU TUBPCS+2				PRUF INPUT LENGTH (TUBVHR)
		0026	1938+	TUBDCH	EQU TUBPIL				REDEFINES TUBPIL FOR PORTS.
		0027	1940+	TUBLN	EQU TUBPIL+1				LENGTH OF DATA MODE TUB
			1942+	*	END OF TUB FOR DATA MODE TERMINAL				
		0027	1944+	TUBPL	EQU TUBPIL+1				PARAMETER LIST FOR SYSTEM INVITE
			1945+	*					* OR PUT-NO-WAIT INVITE
			1946+	*					* 19 BYTES
		003A	1948+	TUBLNC	EQU TUBLN+19				LENGTH OF TUB FOR COMMAND MODE
			1949+	*					* TERMINAL
			1951+	*	END OF TUB FOR COMMAND MODE TERMINAL				
		00FF	1953+	TUBSTP	EQU X'FF'				TUB STOPPER BYTE

\$CC4#1 EQUATES -- LINE CONTROL BLOCK

CCP00165

1956 * \$ELCB
 1957+*****
 1958+* LINE CONTROL BLOCK *
 1959+*****

1961+*----- FIRST BSCA-ONLY SEGMENT -----*

004C 1963+LCBSCA EQU 76 LCB BEGIN FOR BSCA.
 004D 1964+LCBPOL EQU LCBSCA+1 ADDRESS OF POLLING LIST.
 004F 1965+LCBSEL EQU LCBPOL+2 ADDRESS OF SELECTION LIST.
 004F 1966+LCBNO# EQU LCBSEL @ IN SW ID LIST OF NO VERIFY ID.
 0050 1967+LCBID# EQU LCBSEL+1 ID LAST POLL/SELECTED TERM.
 0052 1968+LCBPL@ EQU LCBID#+2 SAVE FOR CURRENT PARM LIST @.
 0054 1969+LCBWRK EQU LCBPL@+2 WORK AREA FOR SUBRTNS.

1971+* LCBAT1 AND LCBAT2 ARE BOTH ZEROED WHEN AN EOT IS HANDLED.

0055 1973+LCBAT1 EQU LCBWRK+1 ATTRIBUTE BYTE 1.
 0080 1974+LCBCRI EQU X'80' CANCEL RCVI, STOP POLLING.
 0040 1975+LCBPRI EQU X'40' CANCEL RCVI, HANDLE PRIORITY PUT
 0010 1976+LCBINT EQU X'10' INTERRUPT WITH NO PARM LIST QUED
 0008 1977+LCBNTQ EQU X'08' ACTIVE PARM LIST REMOVED FR QUE.
 0004 1978+LCBDEQ EQU X'04' DEQUE WHEN EOT IS FOUND.
 0002 1979+LCBEOT EQU X'02' SEARCH EOT. READ LINE FOR EOT.
 0001 1980+LCBSIN EQU X'01' POLL FOR STATUS, NO STATUS RCVD

0056 1982+LCBAT2 EQU LCBAT1+1 ATTRIBUTE BYTE 2.
 0080 1983+LCBTRC EQU X'80' TRUNCATE BLOCK, BUMP BKX TO END.
 0040 1984+LCBSET EQU X'40' SEND EOT ON THE LINE.
 0020 1985+LCBACT EQU X'20' LINE ACTIVE WITH WORK.
 0010 1986+LCBRFT EQU X'10' REQUEST FOR TEST STARTED.
 0008 1987+LCBABT EQU X'08' ABORT THE LINE CONNECTION.
 0004 1988+LCBSEC EQU X'04' SCOND BLOCK INDICATOR.
 0002 1989+LCBPUT EQU X'02' PUT PENDING ON LINE.
 0001 1990+LCBRCI EQU X'01' RECEIVE INIT ON LINE.

0058 1992+LCBADJ EQU LCBAT2+2 ADJUSTED OUTPUT LENGTH.
 005A 1993+LCBATL EQU LCBADJ+2 @ OF ASCII TRANSLATE BUFFER.
 005C 1994+LCBOWN EQU LCBATL+2 TCB ADDR OF OWNING TASK.
 005E 1995+LCB\$L0 EQU LCBOWN+2 C/S OF LINE INIT. TRANSIENT.
 0060 1996+LCBSRT EQU LCB\$L0+2 @ OF START OF LINE BUFFER AREA.
 0062 1997+LCBBND EQU LCB\$RT+2 @ OF END OF LINE BUFFER AREA.
 0064 1998+LCBKLC EQU LCB\$ND+2 BLOCK LENGTH CURRENT INPUT OP.

2000+*----- SEGMENT COMMON TO MLTA AND BSCA -----*

0065 2002+LCBCCP EQU X'65' BEGINNING OF LCB
 0066 2003+LCBPLQ EQU LCBCCP+2-1 ADDR OF 1ST PARM LIST IN LINE QU
 0068 2004+LCBCHN EQU LCBPLQ+2 CHAIN OF ALL LCB'S IN CCP SYSTEM
 0069 2005+LCBATA EQU LCBCHN+1 LCB ATTRIBUTE BYTE A.
 0080 2006+LCBIGN EQU X'80' 1-IGNORE OP END. REOPENING LINE
 0002 2007+LCBDFB EQU X'02' DFF BUFFER SUPPORTED
 0001 2008+LCBDFB EQU X'01' DFF BUFFER BUSY

\$CC4#1 EQUATES -- LINE CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	50	
		006A	2010+	LCBELC	EQU	LCBATA+1			ID XLATE XIENT EBCDIC -> LINE.	
		006B	2011+	LCBDTR	EQU	LCBELC+1			DFB BUFFER ATR VALUE	
			2013+*	----- MLTA / BSCA MULTIPLIED DEFINED BYTE -----*						
		006C	2015+	LCBLCE	EQU	LCBDTR+1			ID XLATE XIENT LINE -> TO UPPER	
			2016+*						* CASE EBCDIC *MLTA ONLY*	
		006C	2017+	LCBOPE	EQU	LCBLCE			OP END COUNT ON LINE *BSCA ONLY*	
		006D	2019+	LCBLID	EQU	LCBLCE+1			SAVED ID OF LAST TERM POLLED	
		006E	2020+	LCBLLE	EQU	LCBLID+1			ID XLATE XIENT LINE -> TO	
			2021+*						* LOWER CASE EBCDIC.	
			2023+*	----- MLTA / BSCA MULTIPLIED DEFINED BYTE -----*						
		006F	2025+	LCBOLT	EQU	LCBLLE+1			POLT COUNT (RUNNING AND PENDING)	
			2026+*						ON THIS TP LINE *MLTA ONLY*	
		006F	2027+	LCBAT3	EQU	LCBOLT			LCB ATTRIBUTE BYTE 3 *BSCA ONLY*	
		0080	2028+	LCBITB	EQU	BIT0			1-ITB SUPPORTED FOR THIS DTF	
		0040	2029+	LCBTSP	EQU	BIT1			1-TRANSPARENCY SUPPORTED	
		0020	2030+	LCBENB	EQU	BIT2			1-BSCA LINE ENABLED	
		0010	2031+	LCBATO	EQU	BIT3			AUTO CALL HARDWARE SUPPORTED.	
		0008	2032+	LCBBYP	EQU	BIT4			POLLING A BUSY PRINTER.	
		0004	2033+	LCBSTS	EQU	BIT5			POLL FOR STATUS IN OPERATION.	
		0002	2034+	LCBREP	EQU	BIT6			RE-POLL TERMINALS FOR BUSY PRINT	
		0001	2035+	LCBPOR	EQU	BIT7			THIS LCB IS FOR PORTLINE TUBS	
		0070	2037+	LCBATR	EQU	LCBOLT+1			LCB ATTRIBUTE BYTE	
		0080	2039+	LCBNIT	EQU	BIT0			* HAD SUCCESSFUL INITIAL	
			2040+*						* OPERATION ON THIS LINE	
		0040	2041+	LCBOLR	EQU	BIT1			* 1-POLT CURRENTLY RUNNING	
		0020	2042+	LCBGMN	EQU	BIT2			* 1-GETMAIN NEEDED FOR LINE QUEU	
		0010	2043+	LCBSTP	EQU	BIT3			1-ABORT ISSUED TO STOP READ	
		0008	2044+	LCBSWL	EQU	BIT4			1-SWALLOW INPUT FROM NEXT READ	
			2045+*						OP END	
		0004	2046+	LCB1PL	EQU	BIT5			1-INDICATES NEXT PARM LIST	
			2047+*						ISSUED TO THIS LINE IS TO BE PUT	
			2048+*						AT THE TOP OF LINE QUEUE	
		0002	2049+	LCBTBK	EQU	BIT6			1-BIT BUCKET DATA FROM READ OP	
			2050+*						SET FOR 2741 TO DO READ INITIAL	
			2051+*						WHEN WRITE IS 1ST OP TO TERMINAL	
		0001	2052+	LCBTIM	EQU	BIT7			RESCHEDULE PENDING ON LINE	
		0072	2054+	LCBBFL	EQU	LCBATR+2			LENGTH OF DATA AREA IN LINE BUFR	
		0074	2055+	LCBRS3	EQU	LCBBFL+2			RESERVED BYTES.(NOT USED)	
		0076	2056+	LCBIBL	EQU	LCBRS3+2			LENGTH OF CURRENT INVITE INPUT	
			2057+*						BUFFER FOR THIS LINE	
		0078	2058+	LCBIBA	EQU	LCBIBL+2			ADDRESS OF INVITE INPUT BUFFER	
		007A	2059+	LCBTCB	EQU	LCBIBA+2			ADDR OF TCB WHICHS OWNS SWITCHED	
			2060+*						TP LINE	
		007B	2061+	LCBATC	EQU	LCBTCB+1			COUNT OF ALLOCATED TUBS ON	
			2062+*						SWITCHED LINE	
		007C	2063+	LCBNW#	EQU	LCBATC+1			# NEW REQUESTS FOR CM - FROM II	

\$CC4#1 EQUATES -- LINE CONTROL BLOCK

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 51

2065+*----- MLTA-ONLY SEGMENT -----*

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007D 2067+LCBWTC EQU   LCBNW#+1           WORLD TRADE TERMAINL TYPE BYTE
0000 2068+MLNWTC EQU   X'00'             NOT A WORLD TRADE TERMINAL
0001 2069+ML2970 EQU   X'01'             2970 WORLD TRADE TERMINAL
0002 2070+ML5930 EQU   X'02'             5930 WORLD TRADE TERMINAL

007E 2072+LCBMLN EQU   LCBWTC+1           LENGTH OF MLTA LCB

      2074+*           SPECIAL MLTA DTF EQUATES IN $MDTTP
0003 2075+ML2741 EQU   X'03'             2741

      2077+*           SPECIAL MLTA EQUATES IN IOCS FLAG NUMBER 2
0039 2078+TDFFL2 EQU   57                IOCS FLAG BYTE 2
0020 2079+FL2OLP EQU   X'20'             PROGRAM REQUESTED ONLINE TEST
0008 2080+FL2OLT EQU   X'08'             ONLINE TEST IN PROGRESS

      2082+*           MLTA DTF EQUATE FOR TDFEPC - INTERNAL EVENT COMPLETION CODE
0045 2083+TDFEPC EQU   69                INTERNAL EVENT COMPLETION CODE.

      2085+*           SPECIAL MLTA DTF EQUATES IN $MDOLT
0050 2086+TDFERP EQU   80                ERROR RECOVERY STAUTS SWITCHES
0080 2087+ERPCAL EQU   X'80'             ERP HAS BEEN CALLED

0053 2089+$MDPE8 EQU   83                HDB BYTE 7

      2091+*           SPECIAL MLTA DTF EQUATES IN $MDPE7
0080 2092+MLDISC EQU   X'80'             1-MLTA SW LINE IS DISCONNECTED

      2094+*           2740M2 BUFFERED-RECEIVE STATUS BYTES IN $MDRSP-1
0004 2095+MLBID EQU   X'04'             2740M2 IN BID STATUS
0002 2096+MLENTR EQU   X'02'             2740M2 IN ENTER STATUS
0008 2097+MLWBYP EQU   X'08'             2740M2 BUSY WITH WRITE (PTTC)
0010 2098+MLWBYC EQU   X'10'             2740M2 BUSY WITH WRITE (CORR)

      2100+*           SPECIAL MLTA DTF EQUATES IN $MDTCT
0001 2101+MLPTTC EQU   X'01'             PTTC TRANSMISSION CODE
0002 2102+MLCORR EQU   X'02'             CORRESPONDENCE TRANSMISSION CODE

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2105+*----- SECOND BSCA-ONLY SEGMENT -----*

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007D 2107+LCBOPC EQU   LCBNW#+1           LAST OP CODE ON BSCA.
0080 2108+LCBMVD EQU   X'80'             DATA MOVED INDICATOR ON.
0040 2109+LCBERP EQU   X'40'             LINE IN ERP MODE.(IGNORE DATA).
0020 2110+LCBRVI EQU   X'20'             RVI IND - SEND/RECEIVE RVI.
      2111+*           X'08'             * SAVE
      2112+*           X'04'             * AREA
      2113+*           X'02'             * FOR CCP
      2114+*           X'01'             * OP CODE.

      2116+*           THE FOLLOW EQUATES ARE FOR OUTPUT (SELECTION) ONLY.

007E 2118+LCBADL EQU   LCBOPC+1           START OF LINE SELECTION LIST.
0088 2119+LCBADN EQU   LCBADL+10         END OF SELECTION LIST.

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\$CC4#1 EQUATES -- LINE CONTROL BLOCK

2121+* THE FOLLOWING EQUATES ARE FOR INPUT (POLLING) ONLY.

007F	2123+LCBMRL	EQU	LCBOPC+2	INCREMENT AREA FOR MSG LENGTH.
0081	2124+LCBMIL	EQU	LCBMRL+2	ORIGINAL MESSAGE INPUT LENGTH
	2125+*			USED VIA LCBMR@ LABEL.
0083	2126+LCBMR@	EQU	LCBMIL+2	ORIGINAL MESSAGE RECORD ADDR.
0089	2128+LCBBLN	EQU	LCBADN+1	LENGTH OF BSCA LCB

2130+* THE FOLLOWING EQUATES ARE FOR BSCA SWITCHED AUTO CALL DTF ONLY.

007E	2132+LCBTEL	EQU	LCBOPC+1	BEGINING OF AURO DIAL #.
008C	2133+LCBTL@	EQU	LCBTEL+14	END OF AUTO DIAL AREA.
008D	2134+LCBSWN	EQU	LCBTL@+1	LENGTH OF BSCA AUTO DIAL DTF.

\$CC4#1 EQUATES -- TERMINAL NAME TABLE

CCP00167

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2137 *      $ETNT
2138+*****
2139+*      T E R M I N A L   N A M E   T A B L E      *
2140+*****
0000 2141+TNTCCP EQU    0      BEGINNING OF TNT
0005 2142+TNTNAM EQU   TNTCCP-1+6  SYMBOLIC TERMINAL NAME FIELD
0007 2143+TNTTUB EQU   TNTNAM+2  ADDRESS OF ASSOCIATED TUB
      2144+*      * IF LEFT BYTE ZERO, UNASSIGNED
0007 2145+TNTTNT EQU   TNTTUB      @ MASTER TNT - FOR SUB-TERMINAL

      2147+*----- REDEFINITION OF TNTTUB FOR DISK VERSION OF TNT -----*
0006 2148+TNTIID EQU   TNTTUB-2+1  TUTIID IF ASSIGNED, 0=UNASSIGNED
0007 2149+TNTMNO EQU   TNTIID+1    0=UNIQUE TERMINAL NAME
      2150+*      N=REL TNT NO. OF MASTER NAME
      2151+*-----*

0008 2153+TNTFLG EQU   TNTTUB+1    TNT FLAG BYTE
0080 2154+TNTPRI EQU   BIT0        1-PRIMARY NAME FOR THIS TERMINAL
0040 2155+TNTBLK EQU   BIT1        1-ENTRY IS 'BLANK' TERMINAL NAME
0020 2156+TNTKNS EQU   BIT2        1-ENTRY IS 'CONSOL' TERM'L NAME
0010 2157+TNTR5  EQU   BIT3        1--TNT USED BY CURRENT PGM REQ
0008 2158+TNTAM  EQU   BIT4        1--STOP POLLING SUCCESSFUL.
0004 2159+TNTRPT EQU   BIT5        1--RESERVED PORT PREFIX NAME.

0009 2161+TNTMCT EQU   TNTFLG+1    INDEXES FOR MULTI-CMPNT TERMINAL
      2162+*      BITS 0-3: INDEX OF INPUT CMPNT
      2163+*      BITS 4-7: INDEX OF OUTPUT CMPNT
000A 2164+TNTSTT EQU   TNTMCT+1    INDEX TO SWITCHED TERMINAL TABLE
000B 2165+TNTLN  EQU   TNTSTT+1-TNTCCP  LENGTH OF TNT ENTRY
0000 2166+TNTSTP EQU   X'00'      TNT STOPPER BYTE IN CORE
    
```

2168 * \$ETML
2169+*****
2170+* T R A N S L A T E / M O V E L I S T S *
2171+*****

2173+* TRANSLATE PARAMETER LIST

0000	2175+TLCCP	EQU	0	BEGINNING OF TRANSLATE LIST
0001	2176+TLTOL	EQU	TLCCP-1+2	LENGTH OF TO FIELD
0003	2177+TLTOA	EQU	TLTOL+2	ADDRESS OF THE TO FIELD
0005	2178+TLFRMA	EQU	TLTOA+2	ADDRESS OF THE FROM FIELD
0007	2179+TLFRML	EQU	TLFRMA+2	LENGTH OF THE FROM FIELD
0008	2180+TLRTC	EQU	TLFRML+1	TRANSLATE RETURN CODE

2182+* MOVE PARAMETER LIST

0000	2184+MVLCCP	EQU	0	BEGINNING OF MOVE LIST
0001	2185+MVLTOA	EQU	MVLCCP+2-1	LENGTH OF THE TO FIELD
0003	2186+MVLTOA	EQU	MVLTOA+2	ADDRESS OF THE TO FIELD
0005	2187+MVLFRMA	EQU	MVLTOA+2	ADDR OF THE FROM FIELD
0007	2188+MVLFRML	EQU	MVLFRMA+2	LENGTH OF THE FROM FIELD
0008	2189+MVLTYP	EQU	MVLFRML+1	TYPE OF MOVE REQUEST
	2190+*			* X'00' - NO ATR SWAP NECESSARY
	2191+*			* (NEITHER FIELD IN UPA)
	2192+*			* X'01' - FROM FIELD IN UPA
	2193+*			* X'02' - TO FIELD IN UPA
	2194+*			* X'03' - BOTH FIELDS IN UPA
	2195+*			* (SWAP ATRS).
000A	2196+MVLTCB	EQU	MVLTYP+2	ADDRESS OF TCB FOR USER TASK
	2197+*			* IF EITHER TO OR FROM FIELD
	2198+*			* IS IN A USER PROGRAM.
	2199+*			* FIELD NOT NEEDED IF MVLTYP
	2200+*			* IS X'00'.

\$CC4#1 CCP COMMON AREA

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 55

2203 * \$E030 ROC-0,ORF-0,PF-FF CCP00171

\$CC4#1 C C P C O M M O N A R E A

2205+*****
2206+* C O M M U N I C A T I O N S C O N T R O L P R O G R A M *
2207+* C O M M O N A R E A *
2208+*****

2210+***** NOTE - DO NOT CHANGE ORDER OF THESE EXTRNS WITHOUT CHANGING ****
2211+***** MODULE \$CC4V1. ****

0001 2213+ EXTRN \$CC4TR(3)
0002 2214+ EXTRN \$CC4TX(3)
0003 2215+ EXTRN \$CC4MS(3)
0004 2216+ EXTRN \$CC4GM(3)
0005 2217+ EXTRN \$CC4FM(3)
0006 2218+ EXTRN \$CC4MX(3)
0007 2219+ EXTRN \$CC4MV(3)
0008 2220+ EXTRN \$CC4SR(3)
0009 2221+ EXTRN CC4TI2(3)
000A 2222+ EXTRN \$CC4CP(3)
000B 2223+ EXTRN \$CC4TM(3)
000C 2224+ EXTRN \$CCINT(3)
000D 2225+ EXTRN \$CCTI2(3)
000E 2226+ EXTRN \$CC4IG(3)
000F 2227+ EXTRN XSNT1(3)
0010 2228+ EXTRN XSNT2(3)
0011 2229+ EXTRN XSNT3(3)
0012 2230+ EXTRN \$CC4TI(3)
0013 2231+ EXTRN CC4TH(3)
0014 2232+ EXTRN XSNTHT(3)
0015 2233+ EXTRN \$CC4PI(3)
0016 2234+ EXTRN \$CC4OC(3)
0017 2235+ EXTRN ADDRS1(3)
0018 2236+ EXTRN \$CC4V1(3)
4600 2237+ ENTRY \$CCCOM

\$CC4#1 C C P C O M M O N A R E A

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 57

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	57
		4600	2239+	\$CCCOM EQU	\$CC4#1				CCP COMMON
					2241+*-----ENTRY POINT ADDRESS DEFINITION-----*				
4600	0001	4601	2243+	DC	AL2(\$CC4TR)				TRANSIENT RETURN ADDRESS
					2242+*@CC4TR				*
4602	0002	4603	2246+	DC	AL2(\$CC4TX)				TRANSIENT TRANSFER CONTROL @
					2245+*@CC4TX				*
4604	0015	4605	2250+	DC	AL2(\$CC4PI)				1ST LEVEL TRANSIENT INVOCATION @
					2248+*@CC4PI				*
					2249+*@CC4TA				*
4606	4D4C	4607	2253+	DC	AL2(\$CC4IS)				COMMUNICATIONS I/O INTERFACE @
					2252+*@CC4IS				*
4608	0004	4609	2256+	DC	AL2(\$CC4GM)				GETMAIN ENTRY ADDRESS
					2255+*@CC4GM				*
460A	0005	460B	2259+	DC	AL2(\$CC4FM)				FREEMAIN ENTRY ADDRESS
					2258+*@CC4FM				*
460C	0017	460D	2262+	DC	AL2(ADDRS1)				MLTA IOCS ENTRY POINT @.
					2261+*@MLTIO				*
					2263+*				FILLED BY STARTUP AT EXECUTION
					2264+*				ADDRESS OF MAINTENANCE ADDRESS
					2265+*				TABLE AT PRE-START UP
460E	0000	460F	2268+	DC	AL2(0)				MLTA OPEN ENTRY POINT @.
					2267+*@MLTOP				*
					2269+*				FILLED BY STARTUP
4610	0000	4611	2272+	DC	AL2(0)				USER SECURITY DATA WORK AREA @
					2271+*@USECW				*
					2273+*				FILLED BY STARTUP
4612	0006	4613	2276+	DC	AL2(\$CC4MX)				MOVE FOREVER ROUTINE ADDRESS
					2275+*@CC4MX				*
4614	0009	4615	2279+	DC	AL2(CC4TI2)				PROGRAM TERMINATION INTERFACE @
					2278+*@C4TI2				*
4616	0012	4617	2282+	DC	AL2(\$CC4TI)				OTHER TASK TERMINATE ADDRESS
					2281+*@CC4TI				*
4618	0008	4619	2285+	DC	AL2(\$CC4SR)				ENTRY ADDRESS IN MOVE ROUTINE
					2284+*@CC4SR				*
461A	0013	461B	2288+	DC	AL2(CC4TH)				@ TERMINATION INTERFACE
					2287+*@CC4TH				*
461C	0000	461D	2291+	DC	AL2(0)				CCP BSCA TRACE ROUTINE
					2290+*@BTRAC				*
					2292+*				ADDRESS FILLED BY STARTUP
					2293+*				IF TRACMLMP SPECIFIED

\$CC4#1 C C P C O M M O N A R E A

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 58

461E 0000	461F	2295+*	@MTRAC			*
		2296+		DC	AL2(0)	CCP MLTA TRACE ROUTINE
		2297+*				ADDRESS FILLED BY STARTUP
		2298+*				IF TRACEMLTA SPECIFIED

\$CC4#1 C C P C O M M O N A R E A

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 59

2300+*-----TRANSIENT COMMUNICATION AREA-----*

2301+*SV1TAX *

4620 000A 4621 2302+ DC AL2(\$CC4CP) ATR SAVE AREA FOR OPEN

2304+*SV2TAX *

4622 000B 4623 2305+ DC AL2(\$CC4TM) ATR SAVE AREA FOR OPEN

2307+*----- ADDRESSES OF SYSTEM TASK CONTROL BLOCKS -----*

2308+* THESE ADDRESSES ARE FILLED IN BY STARTUP.

2310+*@CMTCB *

4624 0000 4625 2311+ DC AL2(0) @ COMMUNICATIONS MANAGEMENT TCB

4626 0000 4627 2313+ DC XL2'0000'

2315+*@TMTCB *

4628 0000 4629 2316+ DC AL2(0) @ TERMINATION TCB

2318+*@CPTCB *

462A 0000 462B 2319+ DC AL2(0) @ COMMAND PROCESSOR TCB

2321+*@AVTCB *

462C 0000 462D 2322+ DC AL2(0) @ AVAILABLE TCB'S

2324+*----- SYSTEM LEVEL FLAGS -----*

462E 00	462E	2326+*	\$FLGA			*
		2327+	DC	AL1(0*128)		FIRST SYSTEM LEVEL FLAG BYTE
		2328+*	BITS IN \$FLGA ARE SET BY STARTUP			
		2329+*	#DFFOK	BIT0		DFF IS SUPPORTED
		2330+*	CPSOB1	BIT1		SIGN ON PASSWORD REQUIRED
		2331+*	CPSOB2	BIT2		SIGN ON USER PASSWORD REQUIRED
		2332+*	CPSHUT	BIT3		SHUTDOWN HAS BEEN REQUESTED
		2333+*	CPSU	BIT4		STARTUP IS IN PROCESS
		2334+*	#EPL	BIT5		EXT POINTER LIST IS SUPPORTED
		2335+*	CPISNW	BIT7		\$CC4IS IS NOT TO ISSUE WAIT
		2336+*				AFTER POSTING \$CC4CM

462F 00	462F	2338+*	\$FLGB			*
		2339+	DC	AL1(0)		SECOND SYSTEM LEVEL FLAG BYTE
		2340+*	BITS IN \$FLGB ARE SET BY STARTUP			
		2341+*	#SUALL	BIT0		SUSPEND ALL IN EFFECT
		2342+*	#SUINT	BIT1		SUSPEND INIT IN EFFECT
		2343+*	#SUCMD	BIT2		SUSPEND COMMANDS IN EFFECT
		2344+*	CPSHDP	BIT3		SHUTDOWN IS PENDING
		2345+*	#FEHLT	BIT4		FEHALT IS RUNNING
		2346+*	#TDERR	BIT5		* 1-PERMANENT DISK I/O ERROR
		2347+*				* TRACING TO DISK HAS BEEN STOPP
		2348+*	#CPCAN	BIT6		CCP CANCEL RECEIVED
		2349+*	#PUCNT	BIT7		PROGRAM USE COUNTING IS ON

4630 04	4630	2351+*	\$FLGC			*
		2352+	DC	AL1(1*4+0*2)		THIRD SYSTEM LEVEL FLAG BYTE
		2353+*	#MTRAC	BIT0		MLTA TRACE IS ON
		2354+*	#BTRAC	BIT1		BSCA TRACE IS ON
		2355+*	#CTRAC	BIT2		CCP TRACE IS ON
		2356+*	#PUTTP	BIT3		PUT ONLY TPBUFF FOR GETMAIN
		2357+*	#INVPL	BIT4		INVITE PL GETMAIN AREA OF TPBUFF
		2358+*	INTPNO	BIT5		INT POLL NOT SUPPORTED FOR BSCC
		2359+*	INTNSP	BIT6		INT POLL NOT SUPPORTED FOR BSCA
		2360+*		BIT7		RESERVED

\$CC4#1 C C P C O M M O N A R E A

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR
			2362+*	----- SYSTEM CONSTANTS -----*	
			2363+*	X\$0000	*
4631	0000	4632	2364+	DC XL2'0000'	CONSTANT XL2'0000'
			2366+*	X\$0001	*
4633	01	4633	2367+	DC XL1'01'	CONSTANT XL2'0001' ALONG WITH
			2368+*		CONSTANT X\$0000
			2370+*	X\$0002	*
4634	0002	4635	2371+	DC XL2'0002'	CONSTANT XL2'0002'
			2373+*	X\$0004	*
4636	0004	4637	2374+	DC XL2'0004'	CONSTANT XL2'0004'
			2376+*	X\$FFFF	*
4638	FFFF	4639	2377+	DC XL2'FFFF'	CONSTANT XL2'FFFF'

```
                2379+*----- QUEUE ADDRESS POINTERS -----*
                2380+*@ALOCQ                                     *
463A 0000      463B 2381+      DC   AL2(0)                   Q OF TASKS WAITING TO BE ALLOC'D
                2383+*@WATSK                                     *
463C 0000      463D 2384+      DC   AL2(0)                   ALLOCATE WAIT QUEUE
                2386+*@QTUBS                                     *
463E 0000      463F 2387+      DC   AL2(0)                   @ Q TUB'S WAITING FOR TCB/CORE
                2389+*@GMWTQ                                     *
4640 0000      4641 2390+      DC   AL2(0)                   @ GETMAIN TCB QUEUE
                2392+*@DFEQ                                     *
4642 0000      4643 2393+      DC   AL2(0)                   QUEUE FOR REQUESTS TO DFF TASK
                2395+*@PRLQ                                     *
4644 0000      4645 2396+      DC   AL2(0)                   @ OF PARAMETER LIST QUED FOR CM
```

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	63
			2398+*		----- LIST ADDRESS POINTERS -----*				
4646	4E59	4647	2400+	DC	AL2(TA@PGM-10)	*			@ PROGRAM LIST IN \$CC4TA
			2399+*		@TALST				
4648	0000	4649	2403+	DC	AL2(0)	*			@ OF THE TCB LIST
			2402+*		@TCORG				
464A	0000	464B	2406+	DC	AL2(0)	*			ATT @ OF RESIDENT OPEN/CLOSE
			2407+*						FILLED BY STARTUP
464C	0000	464D	2410+	DC	AL2(0)	*			@ FIRST LCB IN SYSTEM
			2411+*						FILLED BY STARTUP
			2409+*		@LCB#1				
464E	0000	464F	2414+	DC	AL2(0)	*			@ OF THE FIRST TUB IN THE SYSTEM
			2415+*						FILLED BY STARTUP
			2413+*		@TUBQ				
4650	0000	4651	2419+	DC	AL2(0)				ATR VALUE OF EPL IF SUPPORTED
			2420+*						OR,
			2417+*		@EPATR				@ OF THE SHORT DTF ADDRESS LIST
			2418+*		@DFCT				EITHER FILLED BY STARTUP
4652	0000	4653	2423+	DC	AL2(0)	*			@ OF 1ST TERMINAL NAME TABLE ENT
			2424+*						FILLED BY STARTUP
			2422+*		@TNT				
4654	0000	4655	2427+	DC	AL2(0)	*			@ 1ST SYMBOLIC DFCT NAME ENTRY
			2428+*						FILLED BY STARTUP
			2426+*		@XDT				

\$CC4#1 C C P C O M M O N A R E A

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 64

2430+*----- MAIN STORAGE CONTROL BLOCK (TPBUFF AND UPA)-----*
2431+* ALL FIELDS FILLED BY STARTUP

4656 0000 4657 2433+*@BUFA DC AL2(0) *
@ OF FIRST FREE SEGMENT

4658 0000 4659 2436+*#NBND DC AL2(0) *
RESERVED - MUST BE ZEROS

465A 0000 465B 2439+*@LOBND DC AL2(0) *
@ LO-BOUND GETMAIN AREA

465C 0000 465D 2442+*@HIBND DC AL2(0) *
@ HI-BOUND GETMAIN AREA

465E 0000 465F 2445+*#GMS DC AL2(0) *
SIZE OF LARGEST FREE SPACE

4660 0000 4661 2448+*#TPBUF DC AL2(0) *
ORIGINAL SIZE OF TPBUFF

4662 00 4662 2451+*@UPA DC AL1(0) *
USER PROGRAM AREA ATR

4663 00 4663 2454+*#AVCOR DC AL1(0) *
2K BLOCKS NOT GIVEN TO NEP'S

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	65
			2457+*		----- GENERAL AREAS -----*				
4664	0000	4665	2458+*	@PUCNT	*				
			2459+	DC	AL2(0)	@ PROGRAM USE COUNT TABLE			
			2460+*			FILLED BY STARTUP			
4666	0000	4667	2462+*	@TUSTG	*				
			2463+	DC	AL2(0)	@ OF TUB IN STAGING NOW(CP TASK)			
4668	4745	4669	2465+*	@KNTUB	*				
			2466+	DC	AL2(KNTUB)	@ OF CONSOLE TUB			
466A	0000	466B	2468+*	@PTX	*				
			2469+	DC	AL2(0)	@ OF PCT MASTER INDEX			
			2470+*			FILLED BY STARTUP			
466C	0000	466D	2472+*	@PTXCS	*				
			2473+	DC	AL2(0)	C/S VALUE OF PCT DISK START			
			2474+*			FILLED BY STARTUP			
466E	00	466E	2476+*	#PCTLN	*				
			2477+	DC	AL1(0)	LONGEST LEN PCT USED BY PGM RQST			
			2478+*			FILLED BY STARTUP			
466F	00	466F	2480+*	#DFCT	*				
			2481+	DC	AL1(0)	NO. ENTRIES IN SHORT DTF @ LIST			
			2482+*			FILLED BY STARTUP			
4670	00	4670	2484+*	#SETID	*				
			2485+	DC	AL1(0)	ID OF ASSIGNMENT SET IN USE			
			2486+*			FILLED BY STARTUP			
4671	00	4671	2488+*	#XDT	*				
			2489+	DC	AL1(0)	NUMBER OF SYMFILE STATEMENTS			
			2490+*			FILLED BY STARTUP			
4672	0000	4673	2492+*	@UALFA	*				
			2493+	DC	AL2(0)	UNCHANGING START OF UPA			
			2494+*			FILLED BY STARTUP			
4674	0000	4675	2496+*	@TKFSB	*				
			2497+	DC	AL2(0)	FSB AREA FOR TCB'S			
			2498+*			FILLED BY STARTUP			
4676	00	4676	2500+*	CPLPWD	*				
			2501+	DC	AL1(0)	LENGTH OF SIGN ON PASSWORD			
			2502+*			FILLED BY STARTUP			
4677	404040404040	467C	2504+*	CPPSWD	*				
			2505+	DC	CL6'	CCP SIGN ON PASSWORD			
			2506+*			FILLED BY STARTUP			

\$CC4#1 C C P C O M M O N A R E A

2508+*----- CCP DUMP AREA DISK ADDRESSES -----*

2509+* FIELDS FILLED BY STARTUP OR BY \$CC1DP

2510+*#DUMPQ

467D 00 467D 2511+ DC XL1'0' Q-BYTE OF \$CCPDUMP FILE UNIT

2513+*@CPDMP

467E 0000 467F 2514+ DC XL2'0' DISK ADDRESS OF \$CCPDUMP

2516+*@NDUMP

4680 000000 4682 2517+ DC XL3'0' DISK ADDRESS OF NEXT DUMP

2519+*#CPFLQ

4683 00 4683 2520+ DC AL1(0) *
\$CCPFILE DEVICE Q-BYTE

\$CC4#1 C C P C O M M O N A R E A

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE 67
			2522+*	----- FIXED LOCATIONS OF RESIDENT CODE -----*			
			2523+*	CC4TA	*		
			2524+*	CC4PI	*		
4684	35 10 4605		2525+	L @CC4TA, IAR	LOAD IAR OF \$CC4TA		
			2527+*	CC4IS	*		
4688	35 10 4607		2528+	L @CC4IS, IAR	LOAD IAR OF @CC4IS		
			2530+*	CC4GM	*		
468C	35 10 4609		2531+	L @CC4GM, IAR	LOAD IAR OF @CC4GM		
			2533+*	CC4FM	*		
4690	35 10 460B		2534+	L @CC4FM, IAR	LOAD IAR OF @CC4FM		
			2536+*	USECW	*		
4694	35 10 4611		2537+	L @USECW, IAR	LOAD IAR OF @USECW		
			2539+*	CC4MX	*		
4698	35 10 4613		2540+	L @CC4MX, IAR	LOAD IAR OF @CC4MX		
			2542+*	C4TI2	*		
469C	35 10 4615		2543+	L @C4TI2, IAR	LOAD IAR OF @C4TI2		
			2545+*	CC4TI	*		
46A0	35 10 4617		2546+	L @CC4TI, IAR	LOAD IAR OF @CC4TI		
			2548+*	CC4TT	*		
46A4	35 10 004C		2549+	L X'004C', IAR	LOAD IAR OF @CTRAC		
			2551+*	CC4SR	*		
46A8	35 10 4619		2552+	L @CC4SR, IAR	LOAD IAR OF @CC4SR		
			2554+*	CC4FR	*		
46AC	35 10 46B1		2555+	L @CC4FR, IAR	LOAD IAR OF @CC4FR		
			2557+*	----- ADDITIONAL ENTRY POINT ADDRESS DEFINITION -----*			
			2558+*	@CC4FR	*		
46B0	0000	46B1	2559+	DC AL2(0)	SET BY STARTUP		
			2561+*	@CC4II	*		
46B2	480A	46B3	2562+	DC AL2(\$CC4II)	\$CC4II ENTRY POINT - NEEDED BY		
			2563+*		* SHUTDOWN FOR BUFFER.		
			2565+*	----- MAINTENANCE SPACE ----- 2 BYTES -----*			
46B4	0000	46B5	2567+	DC 2XL1'00'	MAINTENANCE SPACE		
			2569+*	\$END1			

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	68
					2571+***** DFF WORK AREA				15 BYTES*****
					2572+*\$DFWK				
					2573+*@DFFIX				
46B6	0000	46B7	2574+	DC	AL2(0)				* C/S OF DFF FORMATS INDEX FILLED BY STARTUP
					2575+*				
					2577+*#DFQ				* FDT DEVICE Q-BYTE FILLED BY STARTUP
46B8	00	46B8	2578+	DC	AL1(0)				
					2579+*				
					2581+*#DF1ID				ID OF TASK 'OWNING' SPACE IN DFF COMM. AREA FOR LINE 1
					2582+*				TASK ID
46B9	00	46B9	2583+	DC	AL1(0)				
					2585+*#DF2ID				ID OF TASK 'OWNING' SPACE IN DFF COMM. AREA FOR LINE 2
					2586+*				TASK ID
46BA	00	46BA	2587+	DC	AL1(0)				
					2589+*\$DFECB				* ECB FOR DFF TASK
46BB	000000	46BD	2590+	DC	XL3'000000'				
					2592+*\$DFFLG				* DFF FLAG BYTE
46BE	00	46BE	2593+	DC	AL1(0*128)				
					2595+*LCPFK				* PF KEY FOR LOWER CASE INPUT
46BF	FF	46BF	2596+	DC	XL1'FF'				
46C0	0000000000	46C4	2598+	DC	5XL1'00'				*****

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	69
			2600+	*****	COMMAND PROCESSOR WORK AREA			50	BYTES*****
46C5	0000000000	46C9	2603+	DC	XL5'0'				RESERVED
			2605+	*-----	COMMAND PROCESSOR ECB LIST				-----*
			2606+	*\$CPLST					ECB LIST.
46CA	4807	46CB	2607+	DC	AL2(@TMECB)				SHUTDOWN TIMER ECB
46CC	46D8	46CD	2608+	DC	AL2(\$CPQ)				PROGRAM INITIATE-POSTED BY TERM
46CE	46DB	46CF	2609+	DC	AL2(\$CPPF9)				PF9 - PROGRAM REQUEST
46D0	46DE	46D1	2610+	DC	AL2(\$CPCM)				DATA IN TP BUFFER FOR CP
46D2	0048	46D3	2611+	DC	AL2(X'0048')				OCC
46D4	46E1	46D5	2612+	DC	AL2(\$CP1ST)				STARTUP/WTOR/LIST DELIMITER
46D6	FFFF	46D7	2613+	DC	XL2'FFFF'				LIST DELIMITER
			2615+	*-----	COMMAND PROCESSOR ECB'S				-----*
			2616+	*@TMECB					LOCATION OF ECB IN IOB X'4807'
			2617+	*\$CPQ					*
46D8	000000	46DA	2618+	DC	3XL1'00'				PROGRAM INITIATE-POSTED BY TERM
			2620+	*\$CPPF9					*
46DB	000000	46DD	2621+	DC	3XL1'00'				PF9 - PROGRAM REQUEST
			2623+	*\$CPCM					*
46DE	000000	46E0	2624+	DC	3XL1'00'				DATA IN TP BUFFER FOR CP
			2626+	*\$CPOCC					OCC - IN THE DSM NUCLEUS
			2627+	*					
			2628+	*\$CP1ST					*
46E1	400000	46E3	2629+	DC	XL3'400000'				FIRST TIME SWITCH
			2631+	*\$CPFLG	SECOND BYTE OF \$CP1ST				COMMAND PROCESSOR FLAG BYTE
			2632+	*\$CPFR	BIT0				FREEMAIN TO BE DONE
			2633+	*\$CPCFR	BIT3				FREE NEEDED FOR CONSOLE OCC
			2634+	*\$CPDPG	BIT4				PAGE 1 OF DISPLAY DONE
			2635+	*\$CPD1S	BIT5				DO SECONDARY MENU
			2637+	*\$CPWTO					WTO - GETMAINED FOR IN TPBUFF
			2638+	*-----					-----*
			2640+	*\$CPPRQ	\$CP+30				START OF 20 BYTE PRGM REQ AREA
			2642+	*\$CPCOM	\$CP+30				START OF COMMANDS COMMO AREA
			2643+	*\$CPRTC	\$CP+31				SAVE AREA FOR PLRTC
			2644+	*\$CPEFL	\$CP+33				SAVE AREA FOR PLEFFL
			2645+	*\$CPRCA	\$CP+35				SAVE AREA FOR PLRECA
			2647+	*\$CPLMG					2 BYTE MESSAGE LENGTH
46E4	00	46E4	2648+	DC	XL1'00'				ALONG WITH LAST BYTE OF \$CP1ST
			2650+	*\$CPMSG	\$CP+32				*
46E5	000E	46E6	2651+	DC	AL2(\$CC4IG)				MSG AREA: MSG #(NN), THEN TEXT

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	70
46E7	16	46E7	2653+*	#LSTSZ	\$CPMSG+2	*			
		46E7	2654+	DC	AL1(LSTSIZ)	# ENTRIES IN FIRST LEVEL LIST			
46E8	000F	46E9	2656+*	@XSNT1	#LSTSZ+2	*			
		46E9	2657+	DC	AL2(XSNT1)	ADDRESS OF TRANSIENT AREA 1			
46EA	0010	46EB	2659+*	@XSNT2	@XSNT1+2	*			
		46EB	2660+	DC	AL2(XSNT2)	ADDRESS OF TRANSIENT AREA 2			
46EC	000000000000000000	46F6	2662+	DC	11XL1'00'	(UNUSED)			
46F4	000000		2662+						

\$CC4#1 WORK AREAS

			2664+*****	ALLOCATION WORK AREA	9 BYTES*****
			2665+*\$AMWK		
			2666+*\$AM		
46F7	0000000000000000	46FF	2667+	DC 9XL1'00'	ALLOCATION WORK AREA
46FF	00		2667+		
			2669+*\$AMFLG	\$AM	ALLOCATION FLAG BYTE
			2670+*\$AMBSY	BIT0	1--ALLOCATION BUSY
			2671+*\$APEND	BIT1	1--ALLOCATION TASK POST PENDING
			2672+*\$AMDFD	BIT2	NON-RESIDENT DFF ALOC IN PROCESS
			2673+*\$AMA1	BIT3	U/R DEVICE ALLOCATION IN PROCESS
			2674+*\$AMA2	BIT4	REJECT IN PROCESS
			2675+*\$AMPF9	BIT5	CONSOLE TUB IN USE FOR PROGRAM
			2677+*\$AMUR	\$AMFLG+1	CCP LEVEL AND SPOOLING DEVICES.
			2678+*A1SPLV	BIT0	1=CCP IS IN LEVEL 1.
			2679+*		0=CCP IS IN LEVEL 2.
			2680+*	BIT2	MFCU/M SEC IS SPOOL RDR FOR CCP
			2681+*	BIT3	MFCU/M SEC IS SPOOL PCH FOR CCP
			2682+*A1741S	BIT4	3741 IS SPOOLED READER FOR CCP
			2683+*	BIT6	MFCU/M PRI IS SPOOL RDR FOR CCP
			2684+*	BIT7	MFCU/M PRI IS SPOOL PCH FOR CCP
			2685+*\$AMPA	\$AMUR+1	PERM ALOC AND SPOOLED UR
			2686+*		DEVICES FOR CCP.
			2687+*PCTPRS	BIT0	1=WILL SHARE PRINTER.
			2688+*PCT41I	BIT1	1=3741 IS PERM ALLOCATED
			2689+*PCT501	BIT2	1=2501 IS PERM ALLOCATED.
			2690+*PCTPRT	BIT3	1=PRINTER IS PERM ALLOCATED.
			2691+*PCT142	BIT4	1=1442 IS PERM ALLOCATED.
			2692+*PCTMFU	BIT5	1=MFCU/M IS PERM ALLOCATED.
			2693+*	BIT6	1=1442 IS SPOOL READER FOR CCP
			2694+*	BIT7	1=1442 IS SPOOL PUNCH FOR CCP
			2696+*\$AMSA	\$AMPA+1	IN USE DEVICES
			2697+*\$AMSHR	\$AMSA+1	COUNT OF PRESENT PRINT SHARERS

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	72
			2699+	*****	TERMINATOR WORK AREA				24 BYTES*****
			2700+	*\$TMWK					START OF TERMINATION WORK AREA
			2701+	*\$TM					BEGINNING OF WORK AREA
4700	000000000000000000	4711	2702+		DC 18XL1'00'				TERMINATOR WORK AREA
4708	000000000000000000		2702+						
4710	0000		2702+						
4712	0011	4713	2703+		DC AL2(XSNT3)				ADDRESS TRANSIENT 3 IOB
4714	00000000	4717	2704+		DC 4XL1'00'				TERMINATOR WORK AREA
			2706+	*\$TMFLG	\$TM				TERMINATOR FLAG BYTE
			2707+	*\$TMSTK	BIT0				SYSTEM TASK FAILURE
			2708+	*\$TMBSY	BIT0				1--TERMINATION TASK IS ACTIVE
			2709+	*					0--TERMINATION TASK NOT BUSY
			2710+	*\$TMDMP	BIT1				1--DUMP HAS BEEN TAKEN
			2711+	*					0--DUMP NOT TAKEN
			2712+	*\$TMEJ	BIT2				1--\$CC4EJ (CCP END OF JOB)
			2713+	*					HAS BEEN INVOKED BY \$CC4TD
			2714+	*					(TERMINATION CONTROL ROUTINE)
			2715+	*\$TMCLZ	BIT3				TERMINATION MUST CALL CLOSE
			2716+	*\$TMCM	BIT4				RESERVED
			2717+	*\$TMCP	BIT5				RESERVED
			2718+	*\$TMDFL	BIT6				ON=NO MORE DUMP SPACE GUARANTEED
			2719+	*\$TMDER	BIT7				ON=PERMANENT DISK I/O ERROR
			2720+	*					DURING TERMINATION DUMP
			2722+	*\$TMTCB	\$TMFLG+2				@ OF TCB CURRENTLY BEING
			2723+	*					PROCESSED BY TERMINATION TASK
			2724+	*\$TMECB	\$TMTCB+1				TERMINATION'S ECB (3 BYTES)
			2725+	*\$TMDID	\$TMECB-1+3+2				DUMP ID DIGITS (2 BYTES)
			2727+	*-----	TD WORK AREAS -----*				
			2728+	*TIWRK1	\$TMDID+2				SAVE AREA
			2729+	*TIWRK2	TIWRK1+2				INFORMATION
			2730+	*TIWRK3	TIWRK2+2				WHEN CCP
			2731+	*TIWRK4	TIWRK3+2				HAS A
			2732+	*TIWRK5	TIWRK4+2				CCP SYSTEM TASK
			2733+	*TIWRK6	TIWRK5+2				ERROR TO PROCESS

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	73
			2735+	*****	COMMUNICATIONS MANAGEMENT WORK AREA			45	BYTES*****
			2736+	*\$CMWK	START OF 'CM' WORK AREA				
			2737+	*\$CM	START OF 'CM' WORK AREA				
4718	000000000000000000	4729	2738+	DC	18XL1'00'				COMMUNICATION TASK WORK AREA
4720	000000000000000000		2738+						
4728	0000		2738+						
			2740+	*#CMDTF	\$CM+1				SAVE AREA FOR DTF ADDRESS
			2741+	*#CMPL	#CMDTF+2				SAVE AREA FOR PARM LIST
			2743+	*#CMTMA	#CMPL+2				SAVE AREA FOR TERMINAL ADDRESS
			2744+	*#CMBK1	#CMTMA				RETURN CODE FOR \$CC4BL MESSAGE
			2746+	*#CMTFT	#CMTMA+1				SAVE AREA FOR TERMINAL FEATURES
			2747+	*#CMBK2	#CMTFT				INTERNAL MSG TYPE FOR \$CC4BL
			2749+	*#CMPTR	#CMTFT+2				SAVE AREA FOR PREVIOUS POINTER
			2750+	*#CMFPL	#CMPTR+2				SAVE AREA FOR FOUND PARM LIST
			2751+	*#CMPTX	#CMFPL+2				SPECIAL SAVE AREA FOR PREV PTR
			2752+	*#CMTUB	#CMPTX+2				SAVE AREA FOR TUB ADDRESS
			2753+	*#CMERP	#CMTUB+2				@ OF DTF TO BE RESCHEDULED AFTER
			2754+	*					BEING IN CCP ERP
			2755+	*#CMSWT	#CMERP+1				CONTROL SWITCH
			2756+	*#CMARR	BIT0				1--OK TO MODIFY TCBARR
472A	00	472A	2758+	*#OPEND	#CMSWT+1				*
			2759+	DC	XL1'00'				T-P OP END COUNT
472B	0000	472C	2761+	*#CCMCL	#OPEND+2				*
			2762+	DC	XL2'0000'				MAXIMUM COMMAND BUFFER LENGTH
472D	0000	472E	2764+	*#RUFCL	#CCMCL+2				RUF COMMAND LENGTH
			2765+	DC	AL2(0)				FILLED BY STARTUP
472F	0000	4730	2767+	*@TAS	#RUFCL+2				TERMINAL ATTRIBUTE SET ADDRESS
			2768+	DC	AL2(0)				FILLED BY STARTUP
4731	00	4731	2770+	*#HITAS	@TAS+1				HIGHEST TAS INDEX IN SYSTEM
			2771+	DC	AL1(0)				FILLED BY STARTUP
4732	0000	4733	2773+	*@CSSTT	#HITAS+2				DISK C/S OF STT
			2774+	DC	AL2(0)				FILLED BY STARTUP
4734	00	4734	2776+	*#HISTT	@CSSTT+1				NO ENTRIES IN STT(SW TERM TBL)
			2777+	DC	AL1(0)				FILLED BY STARTUP
4735	0000	4736	2779+	*@MLTAD	#HISTT+2				ADDRESS OF MLTA ADAPTER
			2780+	DC	AL2(0)				0 INDICATES NO MLTA ADAPTER
			2781+	*					FILLED BY STARTUP
4737	0000	4738	2783+	*@CKLST	@MLTAD+2				ADDRESS OF CHECK LIST
			2784+	DC	AL2(0)				FILLED BY STARTUP
			2786+	*-----	COMMUNICATIONS MANAGEMENT ECB'S				-----*

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	74
4739	000000	473B	2787+	*\$CMECB	@CKLST+1	*			
			2788+	DC	XL3'000000'	GENERAL POST ECB FOR CM			
473C	200000	473E	2790+	*\$CMFM	\$CMECB+3	*			
			2791+	DC	XL3'200000'	FREEMAIN'S POST OF CM			
473F	0000	4740	2792+	*@ANYTP	\$CMFM+4	ADDRESS OF COMMON TP BUFFER AREA			
			2793+	DC	AL2(0)	* FILLED BY STARTUP			
4741	0000	4742	2794+	*@INVPL	@ANYTP+2	ADDRESS OF INVITE PL AREA			
			2795+	DC	AL2(0)	* FILLED BY STARTUP			
4743	0000	4744	2797+	*ERTIME	@INVPL+2	AUTO ERP RECOVERY TIME			
			2798+	DC	AL2(0)	* FILLED BY STARTUP			

\$CC4#1 WORK AREAS

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2800+*----- CONSOLE TUB AND PARAMETER LIST -----*
2801+*KNTUB $END1+#LWKWK FIXED LOCATION OF CONSOLE TUB
4745 D2D5 4746 2802+ DC CL2'KN' CONSTANT
4747 476C 4748 2803+ DC AL2(KNPL) PARM LIST ADDRESS
4749 0000000000000000 474F 2804+ DC XL7'0000000000000000' UNUSED BYTES IN TUB
4750 80 4750 2805+ DC XL1'80' SIGNIFIES CONSOLE TUB
4751 0000000000000000 476B 2806+ DC 27XL1'00' MORE UNINITIALIZED BYTES
4759 0000000000000000 2806+
4761 0000000000000000 2806+
4769 000000 2806+
2807+*KNPL KNTUB+39 CONSOLE PARAMETER LIST
476C 0000 476D 2808+ DC XL2'0000' PLRTC FILED OF KN PL
476E 8007 476F 2809+ DC XL2'8007' SYS REQUEST SO NOT FREEMAINED
4770 0000000000000000 477E 2810+ DC 15XL1'00' REST OF PARM LIST
4778 0000000000000000 2810+
```

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	76
			2812+*	-----	SHUTDOWN FIELDS	-----			*
477F	000000	4781	2814+	DC	KNPL+19 XL3'000000'	SHUTDOWN'S ECB SHUTDOWN'S ECB			
4782	00	4782	2816+	DC	XL1'00'	RESERVED			
4783	0014	4784	2818+	DC	2817+*FEHLT@ SHDECB+2+3 AL2(XSNTHT)	ADDRESS OF FE HALT ROUTINE			
4785	000000000000000000	478F	2820+	DC	11XL1'00'	SAVE AREA			
478D	000000		2820+		2821+*SHDSAV FEHLT@+11	CM TCB FIELDS SAVE AREA			
			2823+*	-----	EXTENSION TO \$CC4CM WORK AREA	-----			*
4790	000000000000000000	479A	2826+	DC	2824+*#CMTRL SHDSAV-10+11 #CMTRL 11XL1'00'	MOVE LIST FOR \$CC4CM TRANSLATE LIST FOR \$CC4CM			
479B	00000000	479E	2828+	DC	2825+*#CMMVL #CMMVL+10+4 2827+*PLTIME XL4'00'	POLL TIME FOR CM			
479F	000000	47A1	2830+	DC	2829+*WATIME PLTIME+3 XL3'00'	WAIT TIME FOR CM			
47A2	00	47A2	2832+	DC	2831+*SAVLOP WATIME+1 XL1'00'	SAVE AREA FOR POLL LOOP COUNT			
47A3	0000	47A4	2834+	DC	2833+*@CCPTB SAVLOP+2 AL2(0)	CCP PARTITION TCB ADDRESS ADDRESS IS FILLED BY START-UP			
47A5	0000	47A6	2836+	DC	2835+*#TPPUT @CCPTB+2 AL2(0)	LENGTH OF PUT AREA IN TPBUFFER ADDRESS IS FILLED BY START-UP			
47A7	0000	47A8	2838+	DC	2837+*#TPANY #TPPUT+2 AL2(0)	LENGTH OF MIDDLE AREA IN TPBUFF			
47A9	0000	47AA	2840+	DC	2839+*#ANYS #TPANY+1 AL2(0)	LENGTH OF LARGEST COMMON AREA INIT. LENGTH FILLED BY START-UP			
47AB	00	47AB	2843+	DC	2841+*CORCNT #ANYS+2 2842+* XL1'00'	COUNT OF NO. PARMLISTS WAITING ON CORE FROM TPBUFFER INITIALIZED TO ZERO			
47AC	0000	47AD	2845+	DC	2844+*@DTUBQ CORCNT+2+1 AL2(0)	DUMMY TUB QUE FOR TASK CHAIN USED BY II			
47AE	0000	47AF	2848+	DC	2847+*#RUFAD @DTUBQ+2 XL2'00'	ADDITIONAL DATA NEEDED FOR PROGRAM REQUEST UNDER FORMAT.			
47B0	0000	47B1	2851+	DC	2850+*TNTATT #RUFAD+2 XL2'00'	SAVE AREA TO HOLD ATT FOR THE LOCATION OF TNT MOVEOUT.			
47B2	0000	47B3	2854+	DC	2853+*\$RESER XL2'00'	RESERVE AREA. RESERVE AREA.			
			2856+*	-----	BSCC COMMUNICATIONS AREA	-----			*
47B4	000000	47B6	2859+	DC	2858+*\$CSFM XL3'00'	FREEMAIN ECB			
47B7	000000	47B9	2862+	DC	2861+*\$CSECB XL3'00'	OP END AND NEW REQUEST ECB			

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	77
47BA	00	47BA	2864+	*#CSOND	DC AL1(0)				OP END COUNT FOR LINES 3 AND 4
47BB	0000	47BC	2867+	*@CSNRQ	DC AL2(0)				NEW REQUEST QUE
47BD	0000	47BE	2870+	*@CSTCB	DC AL2(0)				ADDRESS OF BSCC TCB
47BF	0000	47C0	2873+	*#CSERP	DC AL2(0)				ADDRESS OF LCB IN ERROR RECOVERY
47C1	0000	47C2	2876+	*@CLB#1	DC AL2(0)				ADDRESS OF FIRST BSCC LCB
47C3	00000000	47C6	2879+	*POLTIM	DC XL4'00'				POLL TIME FOR BM
47C7	00	47C7	2882+	*SVLOOP	DC XL1'00'				SAVE POLL LOOP COUNT FOR BSCC
47C8	000000	47CA	2885+	*WAITIM	DC XL3'00'				WAIT TIME FOR BM
47CB	00	47CB	2888+	*#MATST	DC XL1'00'				LOGICAL ATR START OF BSCC
47CC	00	47CC	2891+	*#MATED	DC XL1'00'				LOGICAL ATR END OF BSCC
47CD	00	47CD	2894+	*#MATX3	DC XL1'00'				REAL ATR START OF XIENT AREA 3
			2897+	*-----					DIRECTORY INFORMATION -----*
47CE	0000	47CF	2899+	*CSPKR1	DC AL2(0)				C/S DIRECTORY ON UNIT R1
47D0	0000	47D1	2902+	*CSPKF1	DC AL2(0)				C/S DIRECTORY ON UNIT F1
47D2	0000	47D3	2905+	*CSPKR2	DC AL2(0)				C/S DIRECTORY ON UNIT R2
47D4	0000	47D5	2908+	*CSPKF2	DC AL2(0)				C/S DIRECTORY ON UNIT F2
			2911+	*-----					REGISTER SAVE AREAS FOR THE DISPLAY TRANSIENT -----*
47D6	0000	47D7	2912+	*\$CPIAR	DC AL2(0)				* IAR
47D8	0000	47D9	2915+	*\$CPXR1	DC AL2(0)				* TUB,TNT,OR FSB
			2918+	*\$CPDTF					*

\$CC4#1 WORK AREAS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	78
47DA	0000	47DB	2919+	DC	AL2(0)				DTF
			2921+*		\$CPUSE				*
47DC	00	47DC	2922+	DC	AL1(0)				PROGRAM USE COUNT SAVE FIELD
			2924+*		\$FLGD				
47DD	00	47DD	2925+	DC	XL1'0'				FOURTH SYSTEM LEVEL FLAG BYTE
			2927+*		\$CCTR@				
47DE	000C	47DF	2928+	DC	AL2(\$CCINT)				ADDRESS OF CCP TRACE INTERCEPT
			2930+*		\$CCTR#				
47E0	00	47E0	2931+	DC	XL1'0'				NUMBER OF BLOCKS IN TABLE
			2933+*		@AERPQ				
47E1	0000	47E2	2934+	DC	XL2'0'				Q OF TUBS FOR AUTO ERP
4800			2936+	ORG	X'4800'				TO ALIGN TIMER IOB
			2937+*		@TMIOB				TIMER IOB FOR SHUTDOWN
4800	00	4800	2938+	DC	XL1'0'				FLAG BYTE
4801	00000000000000	4806	2939+	DC	XL6'0'				TIME HHMMSS
4807	000000	4809	2940+	DC	XL3'0'				ECB

\$CC4#1 WORK AREAS

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT

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2942 * \$E060

CCP00172


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2944+*****
2945+*
2946+* TITLE: '$CC4II' - I/O INTERFACE ROUTINE.
2947+*
2948+* FUNCTION/OPERATION: THE FUNCTION OF THIS RESIDENT ROUTINE IS TO
2949+* PROCESS BOTH USER AND SYSTEM I/O REQUESTS. EXTENSIVE DIAGNOSTICS
2950+* ARE PERFORMED ON EACH REQUEST PRIOR TO SCHEDULING THE REQUEST.
2951+* USER REQUESTS ARE PROCESSED IN THE FOLLOWING MANNER:
2952+*
2953+* 1. GET/PUT/PUT-NO-WAIT/INVITE/STOP INVITE - FOLLOWING THE
2954+* DIAGNOSTICS, AN INPUT OPERATION CAUSES THE RECORD AREA TO BE*
2955+* BLANKED, AND TUBIIS IS SET ON FOR 'CM'. THE USER'S PARAME- *
2956+* TER LIST IS MOVED TO THE TCB FOR ADDRESSABILITY BY 'CM'. *
2957+* THE PARAMETER LIST IS QUEUED ON @PRLQ, AND 'CM' IS POSTED *
2958+* WITH WORK TO DO AND A WAIT ON THE ECB OCCURS. WHEN CONTROL *
2959+* RETURNS, THE COPY OF THE PARAMETER LIST IS MOVED BACK TO THE*
2960+* USER'S PARAMETER LIST AREA. CONTROL NOW RETURNS TO THE USER*
2961+* VIA THE DSM DISPATCHER. NOTE: IF THE PARAMETER LIST OPER-@21
2962+* ATION IS TO A BSCC LINE TUB THEN THE LIST IS QUEUED ON *
2963+* @CSNRQ AND $CC4#M IS GIVEN CONTROL INSTEAD OF $CC4CM. *
2964+*
2965+* IF BUSY PRINTER SUPPORTED THEN BEFORE AN OPERATION IS GIVEN *
2966+* TO CM OR CS A TEST IS MADE FOR A POSSIBLE BUSY PRINTER. IF *
2967+* TUBBSY IS NOT ON THEN THE OPERATION IS EXECUTED. IF TUBBSY *
2968+* IS ON THEN AN INVITE WITH TUBWAT ON IS ISSUED TO ASK IF *
2969+* DEVICE IS STILL BUSY. IF IT IS THEN $CC4II LOOP IN THE *
2970+* USERS TASK UNTILL THE DEVICE BECOMES NOT BUSY BEFORE *
2971+* GIVING THE USERS OPERATION TO CM OR CS.
2972+*
2973+* 2. ACCEPT INPUT - WHEN AN ACCEPT INPUT REQUEST IS ISSUED, TRAN- *
2974+* SIENT $CC4AB IS CALLED TO FIND A COMPLETED INVITE INPUT FOR *
2975+* THIS TASK. IF NO COMPLETED INVITES ARE FOUND ON THE TCBINQ *
2976+* CHAIN, CONTROL RETURNS TO $CC4II TO ISSUE A WAIT FOR AN IN- *
2977+* VITE TO COMPLETE OR SHUTDOWN TO BE REQUESTED BY THE SYSTEM *
2978+* OPERATOR. IF CONTROL RETURNS DUE TO A SHUTDOWN REQUEST, THE *
2979+* RETURN CODE OF THE ACCEPT PARAMETER LIST IS SET TO REFLECT *
2980+* THIS. IF CONTROL RETURNS BECAUSE OF THE COMPLETION OF AN *
2981+* INVITE INPUT, $CC4AB IS AGAIN INVOKED TO FIND THE COMPLETED *
2982+* INVITE REQUEST ON THE 'TCBINQ' CHAIN. WHEN $CC4AB RETURNS *
2983+* TO THE RESIDENT CODE, THE TUB IS DEQUEUED FROM THE @21
2984+* TCBINQ CHAIN, AND 'CM/CS' IS POSTED TO MOVE @21
2985+* THE DATA TO THE USER'S RECORD AREA AND FREEMAIN THE INVITE *
2986+* INPUT HOLD BUFFER AND THE INVITE PARAMETER LIST COPY. *
2987+*
2988+* 3. STATUS REQUESTS (ACQUIRE TERMINAL, RELEASE TERMINAL, OR GET *
2989+* TERMINAL ATTRIBUTES) - AFTER THESE REQUESTS ARE DIAGNOSED, *
2990+* TRANSIENT $CC4GA IS INVOKED TO EITHER PROCESS THE REQUEST *
2991+* (GET ATTRIBUTES) OR TO ROUTE THE REQUEST TO THE APPROPRIATE *
2992+* ACQUIRE OR RELEASE TRANSIENT ($CC4AQ OR $CC4RL). *
2993+*
2994+* 4. CONSOLE REQUESTS - FOR USER REQUESTS TO THE CONSOLE, A GET- *
2995+* MAIN IS DONE FOR A CONSOLE WRITE TO OPERATOR (WTO) OR WRITE *
2996+* TO OPERATOR WITH REPLY (WTOR) REQUEST. THE PARAMETER LIST *
2997+* IS BUILT IN THE GETMAINED AREA FROM THE USER'S PARAMETER *
2998+* LIST AND THE REQUEST IS ISSUED VIA CONSOLE DATA MANAGEMENT *
2999+* CONTROL RETURNS TO $CC4II AFTER THE OPERATION IS COMPLETED, *

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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	81
		3000+*		AND A FREEMAIN OCCURS TO FREE THE PARAMETER LIST AREA AND				*
		3001+*		CONTROL RETURNS TO THE USER PROGRAM.				*
		3002+*						*
		3003+*		5. DFF REQUESTS - IF THE REQUEST IS FOR A DFF TERMINAL, THE				*
		3004+*		FOLLOWING ACTION TAKES PLACE:				*
		3005+*						*
		3006+*		- RELEASE TERMINAL - DFF PROCESSING OCCURS FOLLOWING				*
		3007+*		THE RETURN FROM THE RELEASE TRANSIENTS.				*
		3008+*						*
		3009+*		- GET ATTRIBUTES/ACQUIRE TERMINAL - DFF IS NOT INVOLVED*				*
		3010+*						*
		3011+*		- ACCEPT INPUT - THE DFF TASK IS INVOKED BY 'CM/CS' @21				*
		3012+*						*
		3013+*		- OTHERS - DFF PROCESSING OCCURS IMMEDIATELY PRIOR TO				*
		3014+*		POSTING 'CM' THAT HE HAS WORK TO DO. THE DFF TASK IS*				*
		3015+*		THEN INVOKED BY COMMUNICATIONS MANAGEMENT DURING HIS				*
		3016+*		PROCESSING.				*
		3017+*						*
		3018+*		6. SYSTEM REQUESTS (\$CC4IS) - FOR SYSTEM TP REQUESTS, THE RE-				*
		3019+*		QUEST IS MERELY PASSED ON TO \$CC4CM OR \$CC4#M, IF BSCC, BY				*
		3020+*		MEANS OF QUEUING IT ON ITS PARM CHAIN AND POSTING HIM. IF				*
		3021+*		THE OPERATION IS AN INVITE INPUT, THE PARMETER LIST IS				*
		3022+*		MOVED TO THE TUB.				*
		3023+*						*
		3024+*		INPUT: INPUT TO \$CC4II IS A PARAMETER LIST POINTED TO BY XR2.				*
		3025+*						*
		3026+*		OUTPUT: OUTPUT FROM \$CC4II WILL BE A SCHEDULED PUT OPERATION,				*
		3027+*		DATA ON AN INPUT OPERATION, OR TERMINATION DUE TO ERROR WITH ONE				*
		3028+*		OF THE FOLLOWING TERMINATION CODES:				*
		3029+*		01 - INVALID OP CODE/MODIFIERS				*
		3030+*		02 - INVALID OPERATION FOR CONSOLE				*
		3031+*		03 - UNDEFINED SYMBOLIC TERMINAL NAME				*
		3032+*		04 - TERMINAL NOT ALLOCATED TO PROGRAM				*
		3033+*		05 - TERMINAL REFERENCED BY OTHER THAN ALLOCATED NAME				*
		3034+*		06 - BLANK TERMINAL NAME FOR MRTS PROGRAM				*
		3035+*		07 - BLANK STN AND REQUESTOR RELEASED				*
		3036+*		08 - BLANK STN INVALID FOR THIS OPERATION				*
		3037+*		0A - STN NOT ASSIGNED TO TERMINAL				*
		3038+*		0C - TERMINAL I/O CAPABILITY DOES NOT MATCH OPERATION				*
		3039+*		0D - INVALID OUTPUT LENGTH				*
		3040+*		0E - INVALID INPUT LENGTH				*
		3041+*		0F - INPUT LENGTH GREATER THAN TP BUFFER LIZE				*
		3042+*		10 - INVALID OP WITH DATA FROM PROG. REQ. OUTSTANDING				*
		3043+*		11 - INVALID OP WITH INVITE INPUT OUTSTANDING				*
		3044+*		12 - ACCEPT WITH NO OUTSTANDING INVITES @21				*
		3045+*		13 - ACCEPT BY NEP WITH MAX # OF TERMS AND NO INVITES @21				*
		3046+*		14 - INVALID OP WITH NO INVITES OUTSTANDING				*
		3047+*		16 - COPY REQUESTED TO TERMINAL WITHOUT MAPPING				*
		3048+*		17 - COPY TO TERMINAL NAME NOT FOUND				*
		3049+*		18 - COPY INVALID WITH 3275				*
		3050+*		19 - ERASE REQUESTED TO TERMINAL WITHOUT MAPPING				*
		3051+*		1A - PUT OVERRIDE TO TERMINAL WITHOUT MAPPING				*
		3052+*		1B - INVALID PUT WITH MAPPING - NO EOT				*
		3053+*		1C - RECORD AREA TOO SMALL FOR BSCA GET WITH ITB				*
		3054+*		1D - ACCEPT WHILE WAITING ON EOT @21				*
		3055+*		1E - OUTPUT LENGTH TO CONSOLE TOO LARGE				*

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	82
		3056+*		1F - OUTPUT LENGTH GREATER THAN TP BUFFER LENGTH				*
		3057+*		35 - DFF TERMINAL REFERENCED BY NON-DFF TASK				*
		3058+*		36 - WRONG DATA LENGTH FOR WAIT OPERATION			@21	*
		3059+*		37 - REQUIRED PORT NOT DEFINED TO THE CALLING TASK.				*
		3060+*		38 - INVALID USE OF PORT COMMAND REQUEST OPCODE.				*
		3061+*		48 - NON-MSG MODE PUT TO BSCA, BSCC, OR TTASK PORT			@21	*
		3062+*						*
		3063+*		ENTRY POINTS:				*
		3064+*		\$CC4II - ENTRY FOR USER REQUESTS				*
		3065+*		\$CC4IS - ENTRY POINT FOR SYSTEM REQUESTS				*
		3066+*						*
		3067+*		EXTERNAL REFERENCES:				*
		3068+*		\$CC4TT - TRACE ENTRY				*
		3069+*		\$CC4PI - TRANSIENT INTERFACE TO CALL \$CC4NC AND \$CC4AB				*
		3070+*		\$CC4NC - CANCEL TRANSIENT				*
		3071+*		\$CC4AB - TRANSIENT TO CHECK ACCEPT INPUT POSSIBILITIES				*
		3072+*		\$CC4GA - GET TERMINAL ATTRIBUTES TRANSIENT				*
		3073+*		CC4TI2 - TERMINATION ENTRY WITH TCB COMPLETION CODE				*
		3074+*						*
		3075+*		EXITS-NORMAL: A NORMAL EXIT BACK TO THE USER PROGRAM VIA THE DIS-				*
		3076+*		PATCHER TAKES PLACE IF NO ERRORS OCCUR.				*
		3077+*		-ERROR: AN ERROR EXIT TO TERMINATION WITH THE APPROPRIATE				*
		3078+*		TCB COMPLETION CODE OCCURS IN CASE OF ERROR.				*
		3079+*						*
		3080+*		TABLES/WORK AREAS: A TABLE OF OPERATION CODES IS USED TO CHECK				*
		3081+*		VALIDITY OF OP CODES.				*
		3082+*						*
		3083+*		NOTES: RESIDENT CODE, REENTRANT.				*
		3084+*						*
		3085+*		CHANGE ACTIVITY - \$CC4II				*
		3086+*		@01/INCR/OS.0211 - ACCEPT-NO-WAIT INPUT OPCODE.				*
		3087+*		@02/APAR/S309335 - INCORRECT MOVE OF PARM-LIST ON RESCHEDULE.				*
		3088+*		@03/APAR/S309195 - SUPPRESS 'S' MESSAGE TO CPU FREEMAIN.				*
		3089+*		@04/APAR/S309336 - SHUTDOWN AND SYSTEM INVITE OPCODE.				*
		3090+*		@05/APAR/S30X999 - DISABLE INTERRUPT AFTER \$CC4IS WAIT.				*
		3091+*		@06/INCR/OS.0206 - BSCA VS BSCC LOGIC.				*
		3092+*		@07/INCR/OS.X299 - VAR. INVITE LENGTH ON PRUF SCREENS.				*
		3093+*		@08/INCR/OS.0321 - SUPPORT SIOC PRPQ OPTION.				*
		3094+*		@09/APAR/S311109 - TUBPIL LENGTH FOR NON-DFF PRUF PUT.				*
		3095+*		@10/INCR/OS.0309 - BUSY PRINTER SUPPORT.				*
		3096+*		@11/INCR/OS.0315 - TNT MOVEOUT SUPPORT.				*
		3097+*		@12/APAR/S312039 - INVALID RECA RETURNED AFTER WAIT OP.				*
		3098+*		@13/INCR/OS.0347 - SUPPORT FOR COMMAND RELEASE OPCODE				*
		3099+*		@14/APAR/S312209 - INCLUDE CODE FOR BSCC CHECKING.				*
		3100+*		@15/APAR/S312155 - VALIDATE GET LENGTH FOR WROR ON CONSOLE				*
		3101+*		@16/INCR/OS-0361 - RETURN SHUTDOWN PENDING RETURN CODE				*
		3102+*		@17/APAR/S311871 - CODE MISSING ON BSCC ONLY GEN (NO BSCA)				*
		3103+*		@18/INCR/OS-0367 - ALLOW CPU MESSAGES (S TYPE)				*
		3104+*		RELEASE 04			@19	*
		3105+*		@19/APAR-S313287 - LOOP POSSIBLE IF PUT WITH LARGE RECORD LEN			@19	*
		3106+*		@20/APAR-S314559 - CHECK FOR TUB ADDR IS ERRONEOUS			@20	*
		3107+*		@21/INCR-OS4101 - BSC MULTIPORT			@21	*
		3108+*		RELEASE 05				*
		3109+*		@22/APAR/S315752 - NON PUT OPERATIONS CHANGED TO SYS INVITES.			@22	*
		3110+*						*
		3111+*		*****				*

				3114+*****		
				3115+* ENTRY POINT FOR I/O INTERFACE FOR USER REUESTS		*
				3116+* UPON ENTRY FROM USER RELOCATABLE MODULE - XR2 POINTS AT PARM LIST		*
				3117+*****		
		480A	3119+	ENTRY \$CC4II		
		480A	3120+	\$CC4II EQU *		
480A	F4	30	79	3122+	CCP DISABL,PMRQ	DISABLE ALL INTERRUPTS
480D	34	02	4E3A	3123+	ST II@PRL,XR2	SAVE PARAMETER LIST ADDRESS
				3125+*****		
				3126+* VALIDATE THE OPERATION CODE PASSED BY THE USER		*
				3127+* OBTAIN VALIDITY BYTE FROM OP CODE VALIDITY TABLE		*
				3128+*****		
4811	C2	01	4E52	3130+	LA IIVTBL,XR1	POINT TO OPCODE VALIDITY TABLE
4815	28	03	481E 03	3131+	MNN IIMVBY+4,PLOPC(,XR2)	MOVE OP CODE TO DISPLACMENT
481A	1C	00	4E62 00	3132+IIMVBY	MVC IIVBYT(1),*-(,XR1)	GET VALIDITY BYTE FROM TABLE
481F	BD	79	03	3134+	CLI PLOPC(,XR2),OPAQG+OPSTA	IS THE OP IN THE VALID RANGE @08
4822	F2	84	07	3135+	JH IIIVLD	BRANCH TO TERMINATE IF NOT
4825	3D	00	4E62	3136+	CLI IIVBYT,IIZERO	IS VALIDITY BYTE ZERO
4829	F2	01	05	3137+	JNE IIVLD	JUMP IF NOT
				3139+* VALIDITY BYTE ZERO SO OPERATION IS INVALID		
482C	C0	87	469C	3140+IIIVLD	B C4TI2	BRANCH TO TERMINATION
4830	01			4830 3141+	DC AL1(TCCIOP)	INVALID OP COMPLETION CODE
				4831 3143+IIIVLD	EQU *	OP CODE IS ONE OF CCP VALID OPS
4831	AF	01	01 01	3144+	SLC PLCHN(2,XR2),PLCHN(,XR2)	CLEAR CHAIN/RETURN CODE IN PL.
4835	AF	03	0F 0F	3145+	SLC PL\$RTC(4,XR2),PL\$RTC(,XR2)	CLEAR INTERNAL RETURN CODE
				3146+*		AND INTERNAL OP CODE.
4839	BD	2A	03	3148+	CLI PLOPC(,XR2),OPTCHN	THIS A CHAIN TASK REQUEST?
483C	C0	81	494D	3149+	BE IICTSK	YES, GO EXIT TO TRANSIENT
4840	B8	69	03	3151+	TBN PLOPC(,XR2),OPAQG	TEST IF GENERIC ACQ OPCODE. @08
4843	C0	10	493F	3152+	BT IIGTA	YES, GO CALL TRANSCIENT. @08
4847	BD	14	03	3154+	CLI PLOPC(,XR2),OPWAIT	IS OP WAIT REQUEST
484A	F2	81	5C	3155+	JE IIFOND	JUMP TO ISSUE WAIT
				3157+*	SHUTDOWN INQURITY OP CODE	@01
484D	BD	00	03	3158+	CLI PLOPC(,XR2),OPSHQ	IS OP SHUTDOWN INQUIRY @01
4850	F2	01	1A	3159+	JNE IICKAI	JUMP IF NOT SHUTDOWN INQUIRY @01
4853	38	10	462E	3160+	TBN \$FLGA,CPSHUT	HAS SHUTDOWN BEEN REQUESTED @01
4857	C0	10	4C3D	3161+	BT IIPGSH	YES THEN SET RETURN CODE. @01
485B	B8	01	02	3162+	TBN PLOPM(,XR2),OPDLY	TEST IF INQ SHUTDOWN DELAY @16
485E	38	10	462F	3163+	TBN \$FLGB,CPSHDP	AND SHUTDOWN DELAY ENTERED? @16
4862	C0	90	4C40	3164+	BF IINTSH	NO, THEN JUST RETURN INV CNT @16
4866	BC	11	01	3165+	MVI PLRTC(,XR2),RCXSHP	YES, INDICATE SHUTDOWN PEND. @16
4869	C0	87	4C40	3166+	B IINTSH	THEN SET INVITE CNT IN EFFL. @16
				3168+*	CHECK OP CODE TO SEE IF IT'S AN ACCEPT INPUT	

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		486D	3169+	IICKAI	EQU *				CHECK FOR ACCEPT INPUT
486D	B8 04 03		3170+		TBN PLOPC(,XR2),OPACI				IS THIS AN ACCEPT INPUT
4870	B9 0B 03		3171+		TBF PLOPC(,XR2),BIT4+BIT6+BIT7				AND ONLY ACCEPT INPUT?
4873	C0 10 4BE1		3172+		BT IIACI				.BRANCH IF ACCEPT INPUT
			3174+*		NOT ACCEPT INPUT SO MUST VALIDATE THE SYMBOLIC TERMINAL NAME				
			3175+*		PROVIDED BY USER ALONG WITH THE OPERATION				@21

3177+*****
 3178+* LOCATE SYMBOLIC TERMINAL NAME IN THE TERMINAL NAME TABLE *
 3179+*****

3181+* CHECK FOR END OF TNT
 3182+* XR1 POINTS AT TNT

4877 35 01 4653 3184+ L @TNT,XR1 POINT XR1 AT FIRST TNT ENTRY
 487B B5 02 09 3185+ L PLRECA(,XR2),XR2 POINT XR2 AT RECORD AREA

487E 7D 00 00 3187+IITNTN CLI TNTCCP(,XR1),TNTSTP ARE WE AT END OF TNT?
 4881 F2 81 0A 3188+ JE IINFND JUMP IF AT END TO NOT FOUND

3190+* CHECK THIS ENTRY IN THE TNT
 4884 9D 05 05 05 3191+ CLC IISTNL-1(IISTNL,XR2),TNTNAM(,XR1) COMPARE TNT STN. @11
 4888 F2 84 17 3192+ JH IILook JUMP HIGH TO LOOK AGAIN
 488B F2 81 1B 3193+ JE IIFOND JUMP IF FOUND IN TNT. @08

3195+* NOT FOUND - HAVE PROGRAM ERROR
 488E 35 02 4E3A 488E 3196+IINFND EQU * STN NOT FOUND IN TNT
 4892 AF 01 0B 0B 3197+ L II@PRL,XR2 POINT TO PARAMETER LIST
 4896 BD 08 03 3198+ SLC PLTUBA(2,XR2),PLTUBA(,XR2) CLEAR TUB POINTER TO ZEROS
 4899 C0 81 493F 3199+ CLI PLOPC(,XR2),OPGTA WAS THIS A GET ATTRIBUTES OP?
 489D C0 87 469C 3200+ BE IIGTA SKIP TERMINATION IF YES
 48A1 03 48A1 3201+ B C4TI2 BRANCH TO TERMINATION
 3202+ DC AL1(TCCNNF) TERMINAL NAME NOT FOUND

3204+* SCAN UNTIL A MATCH IS FOUND IF POSSIBLE.
 3205+* DETERMINE HOW MUCH TO BUMP TNT REGITER POINTER.
 48A2 3206+IILook EQU * LOOK AT ANOTHER ENTRY
 48A2 D2 01 0B 3207+IIBUMP LA TNTLN(,XR1),XR1 BUMP POINTER BY TNT FIXED SIZE
 48A5 C0 87 487E 3208+ B IITNTN BRANCH TO COMPARE AGAIN

```

3210+*****
3211+* A WAIT OPERATION WAS ISSUED OR A @21
3212+* SYMBOLIC TERMINAL NAME WAS FOUND IN TNT. DETERMINE IF *
3213+* OPERATION IS VALID FOR THE TYPE TNT ENTRY FOUND. *
3214+* XR1 POINTS AT PROPER TNT ENTRY *
3215+*****
    
```

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48A9 35 02 4E3A 48A9 3217+IIFOND EQU * STN FOUND IN TNT
48AD C0 87 46A4 3218+ L II@PRL,XR2 RESTORE PARM LIST POINTER
48B1 EC 48B1 3219+ B CC4TT BRANCH TO TRACE ROUTINE
3220+ DC AL1(TTII) TRACE FOR $CC4II
48B2 BD 14 03 3222+ CLI PLOPC(,XR2),OPWAIT IS OP WAIT REQUEST
48B5 F2 01 24 3223+ JNE IICKNM JUMP IF NOT WAIT REQUEST
    
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3225+*****
3226+* HAVE WAIT OPERATION. *
3227+* WAIT DATA AREA MUST BE AT LEAST 10 BYTES LONG. *
3228+* BUILD WAIT IOB IN USERS RECORD AREA THEN ISSUE SVC. *
3229+*****
    
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48B8 8D 01 05 4E3E 3231+ CLC PLOUTL(2,XR2),IILN10 WAIT DATA AREA 10 BYTES LONG
48BD F2 02 05 3232+ JNL IIWAT1 JUMP TO ISSUE WAIT
3233+* ERROR - WAIT OPERATION DATA LENGTH IS TOO SHORT
48C0 C0 87 469C 3234+ B C4TI2 BRANCH TO TERMINATION
48C4 36 48C4 3235+ DC AL1(TCCWAT) INVALID WAIT DATA LENGTH
    
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48C5 3237+IIWAT1 EQU *
48C5 B5 02 09 3238+ L PLRECA(,XR2),XR2 LOAD WAIT DATA AREA POINTER @12
48C8 E2 02 06 3239+ LA IISTNL(,XR2),XR2 BUMP POINTER TO TIMER IOB. @12
48CB BC 10 00 3240+ MVI IIZERO(,XR2),IITIMR+IITMWT SET TIMER IOB TO WAIT ON HHMMSS
48CE BC 00 07 3241+ MVI IIWFLG(,XR2),IIZERO INITIALIZE THE WAIT FLAG
48D1 F4 30 78 3242+ CCP ENABLE,PMRQ ENABLE ALL INTERRUPTS
48D4 F4 10 00 3243+ SVC 0 SUPERVISOR CALL
48D7 15 48D7 3244+ DC XL1'15' RIB FOR TIMER WAIT
48D8 C0 87 4BD5 3245+ B IITEND BR TO RETURN TO USER
    
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3247+*****
3248+* SYMBOLIC TERMINAL NAME FOUND. TEST IF BLANK STN. *
3249+*****
    
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48DC B5 02 09 48DC 3251+IICKNM EQU *
48DF 78 40 08 3252+ L PLRECA(,XR2),XR2 RESTORE RECORD AREA POINTER
48E2 F2 90 43 3253+ TBN TNTFLG(,XR1),TNTBLK IS STN ALL BLANKS?
3254+ JF IINBLK JUMP IF NOT.
    
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3257+*****
3258+*      HAVE SYMBOLIC TERMINAL NAME OF ALL BLANKS.      *
3259+*      THUS THE TERMINAL TO WHICH THE OPERATION IS DIRECTED IS      *
3260+*      THE ONE AND ONLY REQUESTOR OF A SINGLE REQUESTOR PROGRAM.      *
3261+*      DETERMINE IF OPERATION IS VALID FOR STN OF ALL BLANKS.      *
3262+*****

48E5 38 02 4E62      48E5 3264+IIBLK EQU *      BLANK TERMINAL NAME GIVEN.
48E9 F2 10 05      3265+ TBN IIVBYT,IIVBLK      IS IT VALID OP FOR STN-BLANKS
3266+ JT IICKBK      JUMP IF VALID OP

3268+* HAVE ERROR** INVALID OPERATION FOR STN OF BLANKS
48EC C0 87 469C      3269+ B C4TI2      BRANCH TO TERMINATION
48F0 08      48F0 3270+ DC AL1(TCCIBL)      INVALID BLANK NAME

3272+* FIRST CHECK TO SEE IF PROGRAM IS NON-MRTS PROGRAM
48F1 35 01 002E      48F1 3273+IICKBK EQU *      CHECK VALIDITY OF BLANK NAME
3274+ L NCTCB@,XR1      POINT TO USER'S TCB
48F5 79 04 AE      3275+ TBF TCBDMG(,XR1),TCBMTS      IS IT NON-MRTS PROGRAM?
48F8 F2 10 05      3276+ JT IISR      JUMP IF NON-MRTS PROGRAM

3278+* HAVE USE OF BLANK NAME FOR MRTS PROGRAM
48FB C0 87 469C      3279+ B C4TI2      BRANCH TO TERMINATION
48FF 06      48FF 3280+ DC AL1(TCCMBL)      BLANK NAME FOR MRTS PROGRAM

4900 78 40 AE      4900 3282+IISR EQU *
4903 F2 90 07      3283+ TBN TCBDMG(,XR1),TCBKRQ      IS THIS A CONSOLE REQUESTOR TASK
4906 35 01 4669      3284+ JF IINKRQ      BRANCH IF NOT
490A F2 87 0C      3285+ L @KNTUB,XR1      LOAD POINTER TO CONSOLE TUB
3286+ J IIKRQ      BRANCH TO MOVE IN NAME

490D 7D 00 D9      490D 3288+IINKRQ EQU *
4910 75 01 DA      3289+ CLI TCBTUB-1(,XR1),NOBIT      IS TUB POINTER NULL
4913 78 04 0B      3290+ L TCBTUB(,XR1),XR1      POINT XR1 AT REQUESTOR TUB
4916 F2 91 0A      3291+ TBN TUBAT1(,XR1),TUBREQ      IS TUB REQUESTING TERMINAL
3292+ JC IIRBL,ANY+FALSE+EQ      JUMP IF NULL TUB POINTER OR
3293+* TUB IS NOT REQUESTING
3294+* BLANK NAME COMPLETELY VALID
4919 75 01 18      4919 3295+IIKRQ EQU *
491C 9C 05 05 05      3296+ L TUBTNT(,XR1),XR1      POINT XR1 AT THIS TUBS TNT ENTRY
4920 F2 87 05      3297+ MVC IISTNL-1(IISTNL,XR2),TNTNAM(,XR1) MOVE STN TO RECORD AREA
3298+ J IINBLK      JUMP TO HANDLE FURTHER

3300+* ERROR - BLANK NAME TO NON-MRTS WITH REQUESTOR RELEASED ALREADY
4923 C0 87 469C      4923 3301+IIRBL EQU *
4927 07      3302+ B C4TI2      BRANCH TO TERMINATION
3303+ DC AL1(TCCRBL)      BLANK NAME WITH REQUESTOR REL.

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3305+*****
3306+* HAVE REQUEST TO A SPECIFIC TUB AT THIS POINT. *
3307+* ASSURE THAT THIS TNT HAS BEEN ASSIGNED TO A TUB. *
3308+* REGISTER XR1 POINTS TO TNT ENTRY. *
3309+*****
    
```

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4928 7D 00 06      4928 3311+IINBLK EQU *          HAVE TERMINAL REQUEWT TO HANDLE
492B F2 01 05      3312+      CLI  TNTTUB-1(,XR1),NOBIT  IS TNTTUB POINTER NULL
                    3313+      JNE  IINNUL          JUMP IF POINTER NOT NULL
    
```

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492E C0 87 469C      3315+* ERROR - TNT NOT ASSIGNED TO A TUB.
4932 0A              3316+      B      C4TI2          BRANCH TO TERMINATION
                    4932 3317+      DC  AL1(TCCNAT)      TNT NOT ASSIGNED TO TUB
    
```

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4933 35 02 4E3A      4933 3319+IINNUL EQU *          HAVE VALID TNT TUB POINTER
                    3320+      L      II@PRL,XR2        POINT XR2 AT PARM LIST
    
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```

4937 34 01 4E32      4937 3322+      ENTRY IISTNT
493B 9C 01 0B 07      4937 3323+IISTNT EQU *          SAVE TNT ADDR
                    3324+      ST  IIVTNT,XR1        SAVE TNT ENTRY ADDRESS
                    3325+      MVC  PLTUBA(2,XR2),TNTTUB(,XR1) .MOVE TUB @ TO PARM LIST @11
    
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3327+*****
3328+* CHECK REQUEST TYPE - DETERMINE IF IT IS STATUS REQUEST. *
3329+* STATUS OPERATION... RELEASE, ACQUIRE, GET TERMINAL *
3330+*          ATTRIBUTES OR TASK CHAINING. *
3331+*****
    
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```

493F 8E 01 09 4E34      493F 3333+IIGTA EQU *          ADD STN LENGTH TO BUMP RECORD
4944 B8 08 03          3334+      ALC  PLRECA(2,XR2),CC0006  ADDRESS TO DATA ADDRESS.
4947 F2 90 2D          3335+      TBN  PLOPC(,XR2),OPSTAT    IS IT STATUS OPERATION
                    3336+      JF  IITKNS          JUMP IF NOT NOT STATUS OPERATION
    
```

```

494A B4 01 0F          3338+      ST  PL$TNT(,XR2),XR1        PLUG TNT ADDR INTO PARM LIST
    
```

```

494D C0 87 4684      494D 3340+IICTSK EQU *          . @11
4951 12              3341+      B      CC4PI          BRANCH TO BRING IN TRANSIENT @11
                    4951 3342+      DC  AL1(CC4GA)      GET ATTRIBUTES TRANSIENT ID
    
```

```

4952 F4 30 79          3344+      CCP  DISABL,PMRQ          STOP INTERRUPTS
    
```

```

3346+*****
3347+* BAD TCB COMPLETION CODE *
3348+*****
    
```

```

4955 35 01 002E      3350+      L      NCTCB@,XR1        POINT XR1 AT CURRENT TCB
4959 7D 00 2B          3351+      CLI  TCBCMP(,XR1),NOBIT  IS TCB COMPLETION CODE ZERO
495C F2 81 0A          3352+      JZ  IINCMP          JUMP IF ZERO (OKAY) @08
    
```

```

495F 1C 00 4968 2B      495F 3354+      ENTRY IIBTCB          * @08
                    495F 3355+IIBTCB EQU *          MOVE TCB COMP CODE SUCH @08
                    3356+      MVC  IITCMP(1),TCBCMP(,XR1) THAT THE ARR POINTS TO IT. @08
    
```

\$CC4#1 COMMUNICATIONS I/O INTERFACE -- USER I/O

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	89	
4964	C0 87 469C		3357+	B	C4TI2					
4968		4968	3358+	IITCMP DS	CL1	BRANCH TO TERMINATE THIS TASK@08				
		4969	3359+	IINCMP EQU	*	TCB COMPLETION CODE @08				
						*			@08	
			3361+	*****						
			3362+	*	IF CHAIN TASK REQUEST GO STRAIGHT TO EXIT				*	
			3363+	*****						
4969	B5 01 0B		3365+	L	PLTUBA(,XR2),XR1	POINT TO POSSIBLE DUMMY TUB.			@08	
496C	BD 2A 03		3366+	CLI	PLOPC(,XR2),OPTCHN	THIS A CHAIN TASK REQUEST?			@08	
496F	C0 81 4BD5		3367+	BE	IITEND	YES SKIP SET-UP AND EXIT.			@08	
4973	C0 87 4BD0		3368+	B	IISEND					

3371+*****
 3372+* DETERMINE IF THIS TUB IS THE CONSOLE *
 3373+*****

	4977	3375+IITKNS EQU *	TEST FOR CONSOLE TUB
4977 78 20 08	3376+	TBN TNTFLG(,XR1),TNTKNS	TEST IS THIS THE CONSOLE TNT?@11
497A 75 01 07	3377+	L TTTTUB(,XR1),XR1	ADDRESS THE TEMINALS TUB. @11
497D F2 10 6B	3378+	JT IIKNSL	JUMP IF CONSOLE.

3380+*****
 3381+* HAVE REQUEST TO TERMINAL - VALIDATE IT *
 3382+* PREPARE FOR PHYSICAL TP IO - MUST VALIDATE REQUEST FIRST *
 3383+* VALIDATE THAT THIS TUB BEONGS TO TCB REQUESTING IT *
 3384+*****

4980 4D 01 12 002E	3386+	CLC TUBTCB(2,XR1),NCTCB@	DOES CURRENT TCB = TUBTCB?
4985 79 08 0D	3387+	TBF TUBAT3(,XR1),TUBALC	IS TUB PHYSICALLY ALLOCATED ?
4988 F2 16 05	3388+	JC IIPHYS,NONE+FALSE+HI+LO	JUMP IF OKAY

3390+* CURRENT TCB DOES NOT MATCH TUB TCB SO PROGRAM ERROR

	498B C0 87 469C	3391+* TERMINAL NOT ALLOCATED TO THIS PROGRAM	
	498F 04	498F 3392+ B C4TI2	BRANCH TO TERMINATION
		3393+ DC AL1(TCCNAP)	TERMINAL NOT ALLOCATED TO PROG

	4990	3395+IIPHYS EQU *	
4990 78 20 0B	3396+	TBN TUBAT1(,XR1),TUBONL	IS TUB ONLINE?
4993 F2 10 07	3397+	JT IITCBK	BRANCH IF YES
4996 BC 09 01	3398+	MVI PLRTC(,XR2),RCXOFF	SET COMPLETION CODE TO OFFLINE
4999 C0 87 4BBB	3399+	B IIREND	BRANCH TO RETURN

	499D	3401+IITCBK EQU *	CHECK THAT TUB POINTS TO
499D 4D 01 18 4E32	3402+	CLC TUBTNT(2,XR1),IIVTNT	CORRECT TNT ENTRY?
49A2 F2 81 05	3403+	JE IITNTK	JUMP IF YES

3405+* ERROR TNT POINTS TO TUB BUT TUB DOES NOT POINT TO TNT

	49A5 C0 87 469C	3406+* TERMIANL NOT REFERECNED BY NAME BY WHICH IT WAS ALLOCATED	
	49A9 05	49A9 3407+ B C4TI2	BRANCH TO TERMINATION
		3408+ DC AL1(TCCNAN)	NOT ALLOCATED BY THIS NAME

```

3411+*****
3412+* ASSURE TERMINAL DOES NOT HAVE OUTSTANDING IMPLICIT INVITE INPUT *
3413+* ONLY ACCEPT INPUT CAN BE ISSUED TO TERMINAL WITH IMPLICIT INVITE *
3414+* INPUT WHICH HAS NOT BEEN SATISFIED. *
3415+*****
    
```

```

49AA 78 20 0C      49AA 3417+IITNTK EQU *
49AD F2 90 05      3418+      TBN  TUBAT2(,XR1),TUBIMI IS IMPLICIT INVITE UNSATISFIED
                   3419+      JF   IICKIS JUMP IF NO IMPLICIT INVITE INPUT
    
```

```

49B0 C0 87 469C    3421+* ERROR - HAVE NON ACCEPT INPUT REQUEST TO TUB WITH IMPLICIT INVITE
49B4 10            3422+* INPUT UNSATISFIED. DATA FROM PROGRAM REQUEST OUTSTANDING.
                   3423+      B    C4TI2 BRANCH TO TERMINATION
49B4 10            49B4 3424+      DC   AL1(TCCIMO) IMPLICIT INVITE OUTSTANDING
    
```

```

3426+* DETERMINE IF INVITE INPUT IS OUTSTANIDNG TO THIS TERMINAL
3427+* ERROR IF SO UNLESS THIS IS STOP INVITE INPUT
    
```

```

49B5 78 C0 0C      49B5 3429+IICKIS EQU * CHECK FOR OUTSTANDING INVITES.
49B8 F2 10 06      3430+      TBN  TUBAT2(,XR1),TUBDTA+TUBCMD IS TUB IN COMMAND INTERRUPT
49BB 78 10 0C      3431+      JT   IIVSCH MODE? JUMP INVITE SCHEDULED.
49BE F2 90 0B      3432+      TBN  TUBAT2(,XR1),TUBIIS IS INVITE INPUT SCHEDULED ON
                   3433+      JF   IINIIS TUB? NO THEN SKIP BELOW.
    
```

```

3435+* HAVE INVITE INPUT SCHEDULED - THIS OP IS VALID
3436+* ONLY IF IT IS A STOP INVITE INPUT.
    
```

```

49C1 B8 04 02      49C1 3437+IIVSCH EQU * INVITE INPUT SCHEDULED
49C4 F2 10 10      3438+      TBN  PLOPM(,XR2),OPSTOP IS THIS STOP INVITE INPUT
                   3439+      JT   IIIOCP JUMP IF STOP SINCE OPERATION OK
    
```

```

49C7 C0 87 469C    3441+* ERROR - INVALID OPERATION WITH INVITE INPUT OUTSTANDING.
49CB 11            3442+      B    C4TI2 BRANCH TO TERMINATION
49CB 11            49CB 3443+      DC   AL1(TCCIO) INVITE INPUT OUTSTANDING
    
```

```

3445+* NO INVITE SCHEDULED SO THIS MUST NOT BE A STOP INVITE INPUT
    
```

```

49CC B8 04 02      49CC 3446+IINIIS EQU * NO INVITE SCHEDULED
49CF F2 90 05      3447+      TBN  PLOPM(,XR2),OPSTOP IS THIS STOP INVITE INPUT
                   3448+      JF   IIIOCP JUMP IF NOT STOP INVITE
    
```

```

3450+* ERROR - HAVE STOP INVITE WITH NO INVITE OUTSTANDING.
    
```

```

49D2 C0 87 469C    3451+      B    C4TI2 BRANCH TO TERMINATION
49D6 14            49D6 3452+      DC   AL1(TCCNIO) NO INVITES OUTSTANDING
    
```

3455+*****
 3456+* TEST TERMINAL CHARACTERISTICS VS REQUESTED IO. *
 3457+*****

49D7 28 03 49E1 03 49D7 3459+IIIOCP EQU * CHECK FOR PROPER IO CAPABILITY
 49DC 3B FC 49E1 3460+ MNN IIIOTS+1,PLOPC(,XR2) MOVE RIGHTMOST 4 BITS OF OP CODE
 3461+ SBF IIIOTS+1,X'FC' SET OFF ALL BUT RIGHTMOST 2 BITS

49E0 78 00 0A 49E3 49E3 F2 10 32 3463+IIIOTS TBN TUBCHR(,XR1),*-* TEST TUB FOR PROPER I/O.
 3464+ JT IIRQTY JUMP IF I/O OKAY

49E6 C0 87 469C 49EA 3466+*I/O CAPABILTY DOES NOT MATCH REQUEST
 3467+ B C4TI2 BRANCH TO TERMINATION
 49EA 0C 49EA 3468+ DC AL1(TCCIOC) I/O CAPABILITY DOES NOT MATCH

3470+*****
 3471+* CONSOLE IS USED AS THE TERMINAL. *
 3472+* CHECK THAT OP CODE IS VALID FOR CONSOLE AS TERMINAL NAME *
 3473+* DETERMINE REQUEST TYPE. VALIDATE OP CODE AND MODIFIER TO EXTENT *
 3474+* THAT THOSE BITS MUST BE OFF FOR A USER REQUEST ARE OFF. *
 3475+*****

49EB 38 04 4E62 49EB 3477+IIKNSL EQU * CONSOLE REQUEST HANDLER
 49EF BD 72 03 3478+ TBN IIVBYT,IIVKNS IS OP VALID FOR CONSOLE
 49F2 F2 11 05 3479+ CLI PLOPC(,XR2),OPPUT+OPRUF AND NOT A RUF PUT MESSAGE ?
 3480+ JC IIKLEN,TANDNE JUMP IF VALID

49F5 C0 87 469C 49F9 3482+* ERROR - HAVE OP CODE WHICH IS VALID OP BUT NOT FOR CONSOLE
 3483+ B C4TI2 BRANCH TO TERMINATION
 49F9 02 49F9 3484+ DC AL1(TCCIOK) INVALID OP FOR CONSOLE

49FA B8 02 03 49FA 3486+* CHECK FOR OUTPUT LENGTH TO CONSOLE TOO LARGE
 49FD 8D 01 05 4E36 49FA 3487+IIKLEN EQU * TEST CONSOLE LENGTH FOR > 71/107
 4A02 F2 93 13 3488+ TBN PLOPC(,XR2),OPPUT IS THIS AN OUTPUT OPERATION?
 4A05 B8 01 03 3489+ CLC PLOUTL(2,XR2),IIMAXK LENGTH GREATER THAN 71?
 4A08 F2 10 08 3490+ JC IIRQTY,ANY+FALSE+NHIGH BRANCH IF NOT
 4A0B 8D 01 05 4E38 3491+ TBN PLOPC(,XR2),OPGET IS THIS A WTOR?
 4A10 F2 04 05 3492+ JT IITOLG BRANCH TO ERROR IF YES
 3493+ CLC PLOUTL(2,XR2),IIMAXC IS LENGTH GREATER THAN 107?
 3494+ JNH IIRQTY BRANCH OUT IF NOT

4A13 3496+IITOLG EQU *
 4A13 C0 87 469C 3497+* ERROR - OUTPUT LENGTH TO CONSOLE GREATER THAN 71 FOR
 4A17 1E 4A17 3498+* WTOR OR IS GREATER THAN 117 FOR WTO.
 3499+ B C4TI2 BRANCH TO TERMINATION
 3500+ DC AL1(TCCIKL) INVALID CONSOLE LENGTH

\$CC4#1 COMMUNICATIONS I/O INTERFACE -- USER I/O

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	93
			3502+	*****				
			3503+	CONTINUE TO VALIDATE PARM LIST.				*
			3504+	*****				
		4A18	3506+	IIRQTY EQU *	CHECK OP MOD BITS TO ASSURE			
4A18	B9 E0 02		3507+	TBF PLOPM(,XR2),OP\$SYS+OPOLT+OPDISC	VALIDITY SET. @21			
4A1B	F2 10 05		3508+	JT IIVLNO	JUMP IF OKAY			
			3510+	* ERROR - OP MODIFER HAS INVALID BITS FOR USER REQUEST				
4A1E	C0 87 469C		3511+	B C4TI2	BRANCH TO TERMINATION			
4A22	01	4A22	3512+	DC AL1(TCCIOP)	INVALID OP OR MODIFIER			
			3514+	* VALIDATE RECORD LENGTHS PASSED IN THE PARM LIST FROM THE USER				
		4A23	3515+	IIVLNO EQU *	VALIDATE OUTPUT LENGTH			
		4A23	3516+	IIVLNN EQU *				
		4A23	3517+	ENTRY IIVLNN				
4A23	B8 02 03		3518+	TBN PLOPC(,XR2),OPPUT	DOES OP INVOLVE OUTPUT			
4A26	F2 90 58		3519+	JF IIVLNI	JUMP IF NO OUTPUT			
			3521+	* CHECK OUTPUT LENGTH FOR GREATER THAN ZERO				
4A29	8D 01 05 4632		3522+	CLC PLOUTL(2,XR2),X\$0000	COMPARE LENGTH VS ZERO			
4A2E	F2 84 14		3523+	JH IIFUTH	JUMP IF GREATER THAN ZERO			
4A31	78 80 0B		3524+	TBN TUBAT1(,XR1),TUBKNM	IS THIS THE CONSOLE?			
4A34	F2 10 09		3525+	JT IIIOL	YES. THEN ERROR.			
			3527+	* ZERO LENGTH IS OK IF THIS IS PUT-EOT/EOB AND HE OWNS THE BSCA LINE				
		4A37	3528+	IIVLNP EQU *				
		4A37	3529+	ENTRY IIVLNP				
4A37	B8 20 03		3530+	TBN PLOPC(,XR2),OPBLK	IS THIS PUT EOT/EOB?			
4A3A	78 01 0C		3531+	TBN TUBAT2(,XR1),TUBOWN	DOES HE OWN THE BSCA LINE?			
4A3D	F2 10 41		3532+	JT IIVLNI	BRANCH PAST ERROR IF YES			
			3534+	* ERROR HAVE OUTPUT LENGTH NOT GREATER THAN ZERO				
		4A40	3535+	IIIOL EQU *				
		4A40	3536+	ENTRY IIIOL				
4A40	C0 87 469C		3537+	B C4TI2	BRANCH TO TERMINATION			
4A44	0D	4A44	3538+	DC AL1(TCCIOL)	INVALID OUTPUT LENGTH			

3541+*****
 3542+* CHECK FOR OUTPUT LENGTH GREATER THAN TP BUFFER LENGTH *
 3543+*****

4A45 78 10 1F 4A45 3545+IIFUTH EQU *
 3546+ TBN TUBTA2(,XR1),TASITB IS THIS PUT WITH ITB?
 4A48 9D 01 05 21 3547+ CLC PLOUTL(2,XR2),TUBRCL(,XR1) OUTPUT LENGTH < RECORD LENGTH?
 4A4C F2 95 05 3548+ JC IINITB,ANY+FALSE+NLOW BRANCH PAST TERMINATION IF NOT

4A4F C0 87 469C 3550+* ERROR - OUTPUT LENGTH LESS THAT RECORD LENGTH FOR PUT ITB
 3551+ B C4TI2 BRANCH TO TERMINATION
 4A53 1C 4A53 3552+ DC AL1(TCCITB)

4A54 79 01 1E 4A54 3554+IINITB EQU *
 3555+ TBF TUBTA1(,XR1),TASDFF AND NOT MAPPING?
 4A57 78 80 0A 3556+ TBN TUBCHR(,XR1),TUBLNE BSCA?
 4A5A F2 90 24 3557+ JF IIVLNI BRANCH OUT IF NOT ALL
 3558+* BSC, NON DFF, AND NOT A PORT @21
 4A5D 4C 01 26 472E 3559+ MVC TUBPIL(2,XR1),#RUFCL MOVE NON-DFE PRUF INPUT LNG. @09
 4A62 2C 01 4E4F 05 3560+ MVC IWORK,PLOUTL(2,XR2) MOVE LENGTH TO WORK AREA
 4A67 B8 04 03 3561+ TBN PLOPC(,XR2),OPNOW IS THIS A PUT-NO-WAIT?
 4A6A F2 90 06 3562+ JF IILTER BRANCH OUT IF NOT
 4A6D 0E 01 4E4F 4E51 3563+ ALC IWORK(2),II19 ADD LENGTH OF PARAMETER LIST
 4A73 0D 01 4E4F 47A6 4A73 3564+IILTER EQU *
 3565+ CLC IWORK(2),#TPPUT IS OUTPUT LENGTH GREATER?
 4A79 F2 04 05 3566+ JNH IIVLNI BRANCH PAST TERMINATION IF NOT

4A7C C0 87 469C 3568+* ERROR - OUTPUT LENGTH IS GREATER THAN TP BUFFER LENGTH
 3569+ B C4TI2 BRNACH TO TERMINATION
 4A80 1F 4A80 3570+ DC AL1(TCCLRG)

3573+*****
3574+* CHECK INPUT LENGTH FOR GREATER THAN ZERO IF APPROPRIATE *
3575+*****

	4A81	3577+	IIVLNI	EQU	*	
	4A81	3578+	ENTRY	IIVLNI		CHECK INPUT LENGTH IF NECESSARY
4A81 B8 01 03		3579+	TBN	PLOPC(,XR2),OPGET		DOES OP INVOLVE GET
4A84 F2 90 5A		3580+	JF	IIIREQ		JUMP IF NOT

	4A87	3582+	IISETS	EQU	*	CHECK INPUT LENGTH
4A87 8D 01 07 4632		3583+	CLC	PLINL(2,XR2),X\$0000		COMPARE INPUT LENGTH VS ZERO
4A8C F2 84 05		3584+	JH	II#TPB		JUMP IF GREATER THAN ZERO

		3586+	*ERROR	-	INPUT LENGTH NOT GREATER THAN ZERO	
4A8F C0 87 469C		3587+	B	C4TI2		BRANCH TO TERMINATION
4A93 0E	4A93	3588+	DC	AL1(TCCIIL)		INVALID INPUT LENGTH

\$CC4#1 COMMUNICATIONS I/O INTERFACE -- USER I/O

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	96
		4A94	3590+	II#TPB EQU *	IF INVITE-CHECK INPUT LENGTH VS				
			3591+	*****	*****				
			3592+	* IF BSCA TERMINAL - CHECK IF RECORD AREA LARGE ENOUGH IF ITB *					
			3593+	*****	*****				
4A94	78 80 0A		3595+	TBN	TUBCHR(,XR1),TUBLNE	IS THIS A BSCA LINE?			
4A97	78 10 1F		3596+	TBN	TUBTA2(,XR1),TASITB	IS ITB SPECIFIED?			
4A9A	9D 01 07 21		3597+	CLC	PLINL(2,XR2),TUBRCL(,XR1)	IS RECORD AREA LARGE ENOUGH?			
4A9E	F2 95 05		3598+	JC	IIINRT,ANY+FALSE+NLOW	BRANCH OUT IF YES			
			3600+*	ERROR - RECORD AREA NOT LARGE ENOUGH FOR BSCA ITB					
4AA1	C0 87 469C		3601+	B	C4TI2	BRANCH TO TERMINATION			
4AA5	1C	4AA5	3602+	DC	AL1(TCCITB)	RECORD AREA TOO SMALL FOR ITB			
			3604+*	CHECK FOR DATA PENDING ON A BSCA LINE					
		4AA6	3606+	ENTRY	IIINRT				
		4AA6	3607+	IIINRT EQU *					
4AA6	B8 05 03		3608+	TBN	PLOPC(,XR2),OPINV	DOES OP INVOLVE INVITE INPUT			
4AA9	F2 90 35		3609+	JF	IIOUTR	JUMP IF NOT INVITE INPUT			
			3611+*	CHECK FOR DATA PENDING ON THE BSCA LINE					
4AAC	78 01 0C		3613+	TBN	TUBAT2(,XR1),TUBOWN	DOES HE OWN A BSCA LINE?			
4AAF	75 01 16		3614+	L	TUBLCB(,XR1),XR1	POINT TO HIS DTF			
4AB2	78 40 0F		3615+	TBN	IIBOPC(,XR1),IIBPUT	WAS LAST OPERATION A PUT? @14			
4AB5	78 08 55		3616+	TBN	LCBAT1(,XR1),LCBNTQ	WAS LAST OPERATION PUT-MESSAGE?			
4AB8	F2 90 07		3617+	JF	IINDPD	BRANCH IF NEITHER - INVITE OK			
4ABB	BC 05 01		3618+	MVI	PLRTC(,XR2),RCXDPD	SET DATA PENDING RETURN CODE			
4ABE	C0 87 4BBB		3619+	B	IIREND	GO RETURN TO USER			
		4AC2	3620+	ENTRY	IINDPD				
		4AC2	3621+	IINDPD EQU *					
			3623+*	HAVE INVITE INPUT SO INPUT LENGTH MUST NOT BE LARGER THAN THE					
			3624+*	SIZE FOR THE ENTIRE TP BUFFER					
4AC2	35 01 002E		3626+	L	NCTCB@,XR1	POINT XR1 AT CURRENT TCB			
4AC6	4E 00 DE 4633		3627+	ALC	TCBIIC(1,XR1),X\$0001	ADD 1 TO TCB INVITE INPUT COUNT			
4ACB	B5 01 0B		3628+	L	PLTUBA(,XR2),XR1	--> TUB @19			
4ACE	78 01 1E		3629+	TBN	TUBTA1(,XR1),TASDFF	TUB SUPPORT DFF? @19			
4AD1	F2 10 0D		3630+	JT	IIIREQ	YES-SKIP LENGTH CHECK @19			
4AD4	8D 01 07 47A8		3631+	CLC	PLINL(2,XR2),#TPANY	COMPARE INPUT LENGTH VS TP BUFF			
4AD9	F2 04 05		3632+	JNH	IIIREQ	JUMP IF INPUT LENGTH NOT HIGH			
			3634+*	ERROR - FOR INVITE INPUT - THE INPUT LENGTH IS GT TP BUFFER SIZE					
4ADC	C0 87 469C		3635+	B	C4TI2	BRANCH TO TERMINATION			
4AE0	0F	4AE0	3636+	DC	AL1(TCCTPB)	TP BUFFER LENGTH PROBLEM			

4AE1 3639+IIOUTR EQU *

3641+*****
3642+* DETERMINE WHETHER TUB IS CONSOLE OR NOT. IF NOT, POST CM/CS AND @21
3643+* ISSUE WAIT. FOR CONSOLE REQUEST, ISSUE WTO/WTOR. @21
3644+*****

4AE1 3646+ ENTRY IIIREQ

4AE1 3647+IIIREQ EQU * I/O INTERFACE REQUEST

3648+* DETERMINE IF REQUEST IS FOR CONSOLE OR \$CC4CM

4AE1 B5 01 0B	3649+	L	PLTUBA(,XR2),XR1	POINT XR1 AT TUB
4AE4 79 80 0B	3650+	TBF	TUBAT1(,XR1),TUBKNM	IS THIS CONSOLE TUB?
4AE7 F2 10 7B	3651+	JT	IIUPST	NOT CONSOLE, GO TO POST

3654+*****
 3655+*** HAVE A CONSOLE REQUEST - ISSUE THE WTO OR WTOR AS APPROPRIATE ***
 3656+*****

3658+* FIRST MUST BUILD A CONSOLE PARAMETER LIST IN THE TCB

4AEA 35 02 002E	3660+	L	NCTCB@,XR2	POINT TO THE TCB
4AEE E2 02 C4	3661+	LA	TCBPL(,XR2),XR2	POINT XR2 AT PARM LIST AREA
4AF1 8C 0E 0E 4E4D	3662+	MVC	\$LGO@@(15,XR2),IICNPM	MOVE PARM LIST TO THE ECB
4AF6 35 01 4E3A	3663+	L	II@PRL,XR1	POINT XR1 AT PARAMETER LIST

3665+* NOW FILL IN THE NECESSARY LENGTHS AND ADDRESSES IN PARM LIST

4AFA 78 01 03	3667+	TBN	PLOPC(,XR1),OPGET	IS THIS A WTOR? @15
4AFD F2 90 17	3668+	JF	IINWTR	SKIP IF NOT. @15
4B00 BC 20 06	3669+	MVI	\$LGOTY(,XR2),IIWTR	INDICATE WTOR MODE. @15
4B03 7D 24 05	3670+	CLI	PLOUTL(,XR1),36	IF THE PUT LENGTH IS LESS @15
4B06 F2 82 03	3671+	JL	IIMX80	THAN 36 THEN MAX INPUT 80, @15
4B09 BC 28 0C	3672+IIMX40	MVI	\$LGON(,XR2),40	ELSE THE MAX INPUT IS 40. @15
4B0C 9D 01 0C 07	3673+IIMX80	CLC	\$LGON(,XR2),PLINL(2,XR1)	TEST IF PLINL LESS THAN @15
4B10 F2 04 04	3674+	JNH	IINWTR	MAX INPUT? IF IT IT THE @15
4B13 9C 00 0C 07	3675+	MVC	\$LGON(,XR2),PLINL(1,XR1)	SET INPUT ON WTOR TO PLINL. @15
4B17 9C 00 09 05	3677+IINWTR	MVC	\$LGOL(1,XR2),PLOUTL(,XR1)	.MOVE IN OUTPUT LENGTH @15
4B1B 9C 01 0B 09	3678+	MVC	\$LGOAA(2,XR2),PLRECA(,XR1)	MOVE IN RECORD AREA ADDRESS
4B1F 9C 01 0E 09	3679+	MVC	\$LGO@@(2,XR2),PLRECA(,XR1)	MOVE IN RECORD AREA ADDRESS

3681+* PARAMETER LIST IS NOW BUILT - ISSUE SVC TO DO WTO OR WTOR

4B23 F4 30 78	4B23 3683+IIDOIT	EQU	*	
4B26 F4 10 00	3684+	CCP	ENABLE,PMRQ	ENABLE ALL INTERRUPTS
4B29 85	3685+	SVC	0	ISSUE THE SVC
	4B29 3686+	DC	XL1'85'	RIB FOR LOG

3688+* MESSAGE IS SENT OUT - RETURN TO THE USER

4B2A F4 30 79	3690+	CCP	DISABL,PMRQ	DISABLE ALL INTERRUPTS
4B2D 34 01 4E3A	3691+	ST	II@PRL,XR1	RESTORE PARAMETER LIST POINTER
4B31 78 01 03	3692+	TBN	PLOPC(,XR1),OPGET	WAS THIS A PUT-THEN-GET OP @15
4B34 F2 90 27	3693+	JF	IICDNE	NO THEN PARM-LIST IS ALL SET @15
4B37 5F 01 05 05	3694+	SLC	PLEFFL(2,XR1),PLEFFL(,XR1)	ZERO THE EFFL IN PARM-LIST @15
4B3B BD 20 00	3695+	CLI	0(,XR2),IINODA	WAS ANY DATA ENTERED? (X20) @15
4B3E F2 81 1D	3696+	JE	IICDNE	BRANCH OUT IF YES, EFFL=0 @15
4B41 6C 00 05 0C	3697+	MVC	PLEFFL(1,XR1),\$LGON(,XR2)	SAVE MAXIMUM INPUT LENGTH @15
4B45 75 02 09	3698+	L	PLRECA(,XR1),XR2	POINT TO THE RECORD AREA @15
4B48 76 02 05	3699+	A	PLEFFL(,XR1),XR2	POINT TO THE END-OF-DATA @15
4B4B 36 02 4639	3700+IICLOP	A	X\$FFFF,XR2	DECREMENT DATA POINTER. @21
4B4F BD 40 00	3701+	CLI	0(,XR2),IIBLNK	IS THE CHARACTER A BLANK? @15
4B52 F2 01 09	3702+	JNE	IICDNE	BRANCH OUT IF NOT A BLANK @15
4B55 4F 01 05 4633	3703+	SLC	PLEFFL(2,XR1),X\$0001	DECREMENT EFFL BY ONE
4B5A C0 84 4B4B	3704+	BH	IICLOP	LOOP TO KEEP TESTING
4B5E D2 02 00	3705+IICDNE	LA	0(,XR1),XR2	RESTORE PARAMETER LIST POINTER

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4B61 C0 87 4BCA 3706+ B IIFINI GO TO EXIT TO USER

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			4B65 3709+	ENTRY	IIUPST	
			4B65 3710+	IIUPST EQU	*	PERFORM POST FOR USER TCB
4B65	B8	01	03	3711+	TBN PLOPC(,XR2),OPGET	DID OP INVOLVE A GET OPERATION?
4B68	F2	90	0D	3712+	JF IINOI1	BRANCH OUT IF NOT
4B6B	7A	10	0C	3713+	SBN TUBAT2(,XR1),TUBIIS	SET ON READ BIT SCHEDULED
4B6E	B8	02	03	3714+	TBN PLOPC(,XR2),OPPUT	DOES OPERATION INVOLVE PUT?
4B71	F2	10	04	3715+	JT IINOI1	BRANCH IF YES
4B74	AF	01	05 05	3716+	SLC PLEFFL(2,XR2),PLEFFL(,XR2)	CLEAR INPUT LENGTH FIELD
			4B78 3717+	IINOI1 EQU	*	

3720+*****
 3721+* NOW MOVE THE PARAMETER LIST TO THE TCB FOR CM TO REFERENCE *
 3722+*****

4B78	35	01	002E	3724+	L	NCTCB@,XR1	POINT TO THE TCB
4B7C	6C	0F	D3 0F	3725+	MVC	TCBPL+PL\$RTC(16,XR1),PL\$RTC(,XR2)	MOVE THE PARM LIST IN
4B80	5F	02	D6 D6	3726+	SLC	TCBPL+PLECB+2(3,XR1),TCBPL+PLECB+2(,XR1)	CLEAR THE ECB
4B84	6C	01	D8 09	3727+	MVC	TCBWK(2,XR1),PLRECA(,XR2)	SAVE RECORD AREA ADDRESS IN TCB
4B88	5F	01	CD CD	3728+	SLC	TCBPL+PLRECA(2,XR1),TCBPL+PLRECA(,XR1)	CLEAR RECA POINTER
4B8C	D2	02	C4	3729+	LA	TCBPL(,XR1),XR2	POINT XR2 AT PARAMETER LIST

3731+*****
 3732+* QUEUE THE REQUEST ON CM'S OR CS'S QUEUE WHICHEVER IS APPROPRIATE.@21
 3733+* THEN POST \$CC4CM OR \$CC4CS THAT HE HAS WORK TO DO. *
 3734+*****

				4B8F	3736+	IIPRBQ EQU *	XR2 POINTS TO PARM-LIST
4B8F	C0	87	4D14	3737+	B	IIQSUB	GO QUEUE THE LIST.(XR1=ECB)
4B93	35	02	4E3A	3738+	L	II@PRL,XR2	POINT TO PARM LIST TO SAVE IT
4B97	3B	20	4630	3739+	SBF	\$FLGC,#NTRAC	ENABLE TRACE BEFORE CM POST
4B9B	F4	30	78	3740+	CCP	ENABLE,PMRQ	REENABLE INTERRUPTS
4B9E	F4	10	00	3742+	SVC	0	SUPERVISOR CALL
4BA1	05			4BA1 3743+	DC	XL1'05'	POST

3745+* NOW ISSUE A WAIT FOR COMPLETION OF THE TP REQUEST

4BA2	35	01	002E	3747+	L	NCTCB@,XR1	POINT TO THE TCB
4BA6	D2	01	D4	3748+	LA	TCBPL+PLECB(,XR1),XR1	LOAD POINTER TO THE ECB
4BA9	F4	10	00	3749+	SVC	0	SUPERVISOR CALL
4BAC	03			4BAC 3750+	DC	XL1'03'	WAIT FOR CM'S POST
4BAD	F4	30	79	3752+	CCP	DISABL,PMRQ	DISABLE ALL INTERRUPTS
4BB0	34	02	4E3A	3753+	ST	II@PRL,XR2	RESTORE PARAMETER LIST POINTER
4BB4	35	02	002E	3754+	L	NCTCB@,XR2	POINT TO THE TCB
4BB8	E2	02	C4	3755+	LA	TCBPL(,XR2),XR2	POINT TO THE PARAMETER LIST

3759+*****
 3760+* REENTER \$CC4II AT THIS POINT AFTER USER REQUEST SCHEDULED *
 3761+* NOW MOVE THE PARAMETER LIST BACK TO USER PROGRAM AREA *
 3762+*****

4BBB 3764+ ENTRY IIREND
 4BBB 3765+IIREND EQU * RETURN TO USER PROGRAM
 4BBB 35 01 4E3A 3766+ L II@PRL,XR1 POINT TO USER'S PARAMETER LIST
 4BBF 6C 05 0F 0F 3767+ MVC PL\$RTC(6,XR1),PL\$RTC(,XR2) MOVE THE PARAMETER LIST
 4BC3 6C 07 07 07 3768+ MVC PLINL(8,XR1),PLINL(,XR2) BACK TO THE USER PROGRAM
 4BC7 D2 02 00 3769+ LA 0(,XR1),XR2 RESTORE PARM LIST IN XR2

4BCA B5 01 0B 3771+IIFINI L PLTUBA(,XR2),XR1 POINT XR1 AT TUB
 4BCD 7B 41 0D 3772+ SBF TUBAT3(,XR1),TUBSPF+TUBSWL ASSURE STOP FAILED AND SWALLOW
 3773+* BITS IN TUB ARE OFF

3775+*****
 3776+* PREPARE TO EXIT \$CC4II TO USER. *
 3777+*****

4BD0 8F 01 09 4E34 4BD0 3779+IISEND EQU * RETURN
 3780+ SLC PLRECA(2,XR2),CC0006 RESTORE CORRECT PLRECA

4BD5 3782+IIAEND EQU *

4BD5 3784+ ENTRY IITEND
 4BD5 3785+IITEND EQU * LEAVING SOON
 4BD5 C0 87 46A4 3786+ B CC4TT BRANCH TO TRACE RETURN TO USER
 4BD9 EE 4BD9 3787+ DC AL1(TTIIRT) TRACE ID - 'EE'
 4BDA F4 30 78 3788+ CCP ENABLE,PMRQ REENABLE ALL INTERRUPTS

3790+* NOW RETURN TO THE USER PROGRAM VIA A SUPERVISOR EXIT

4BDD F4 10 00 3792+ SVC 0 SUPERVISOR CALL
 4BE0 08 4BE0 3793+ DC XL1'08' RIB TO EXIT

3796+*****
 3797+* HAVE ACCEPT INPUT REQUEST *
 3798+*****

4BE1 C0 87 46A4	4BE1	3800+IIACI	EQU	*	HAVE ACCEPT INPUT
4BE5 EC	4BE5	3801+	B	CC4TT	BRANCH TO TRACE THE ACCEPT INPUT
		3802+	DC	AL1(TTII)	'EC' TRACE ID @21

4BE6 BC 00 0D		3804+	MVI	PL\$OPC(,XR2),NOBIT	SETP OP TO SHOW INITIAL REQUEST
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3806+*****
 3807+* CALL ACCEPT TRANSIENT - RETURN IS TO ANY (RETURN) BELOW *
 3808+*****

4BE9 C0 87 4684	4BE9	3809+IICALL	EQU	*	
4BED 0C	4BED	3810+	B	CC4PI	BRANCH TO TRANSIENT HANDLER
4BEE C0 87 469C		3811+	DC	AL1(CC4AB)	ID FOR ACCEPT TRANSIENT
4BF2 00	4BF2	3812+	B	C4TI2	+0 (RETURN) BRANCH TO TERMINATIO
4BF3 C0 87 4C40		3813+	DC	AL1(*-*)	ACCEPT IMPOSSIBLE TO SATISFY
4BF7 F2 87 55		3814+	B	IINTSH	+5 (RETURN) ACCEPT-NO-WAIT NOT S
		3815+	J	IIGGSF	+9 (RETURN) JUMP IF ACCEPT SATIS
		3816+*			+12 (RETURN) CONTINUE IF TO PREFORM WAIT

3820+*****
3821+* --- CHECK FOR SHUTDOWN --- *
3822+* DETERMINE NOW WHETHER USER SHOULD BE TOLD ABOUT SHUTDOWN REQUEST *
3823+*****

3825+* DETERMINE IF SYSTEM OPERATOR REQUESTED SHUTDOWN AND
3826+* ALSO WHETHER USER HAS BEEN TOLD YET WITH NON-SHUTDOWN INQUIRY OP

4BFA 38 10 462E 3828+ TBN \$FLGA,CPSHUT HAS SHUTDOWN BEEN REQUESTED
4BFE F2 90 0D 3829+ JF IIAIWT JUMP IF NOT

4C01 35 01 002E 3831+* SHUTDOWN HAS BEEN REQUESTED - DETERMINE IF USER TOLD ALREADY
4C05 78 01 AE 3832+IITELL L NCTCB@,XR1 POINT XR1 AT CURRENT TCB
4C08 7A 01 AE 3833+ TBN TCBDMG(,XR1),TCBSHQ HAS USER BEEN TOLD
4C0B F2 90 2F 3834+ SBN TCBDMG(,XR1),TCBSHQ SET BIT THAT USER TOLD
3835+ JF IIPGSH JUMP IF SHUTDOWN REQUESTED

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3838+*****
3839+*          WAIT FOR AN INVITE COMPLETION OR A SHUTDOWN REQUEST          *
3840+*****
    
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4C0E F4 30 79      4C0E 3842+IIAIWT EQU *          ISSUE WAIT
4C11 E2 01 00      3843+      CCP  DISABL,PMRQ      DISABLE ALL INTERRUPTS
4C11 E2 01 00      3844+      LA   0(,XR2),XR1      POINT XR1 AT PARMLIST

3846+*          MUST DO A WAIT FOR AN INVITE OR A SHUTDOWN REQUEST

4C14 D2 02 00      3848+IINODG LA   0(,XR1),XR2      POINT XR2 AT PARM LIST
4C17 35 01 002E    3849+      L    NCTCB@,XR1      POINT TO THE TCB
4C1B D2 01 DB      3850+      LA   TCBECEB(,XR1),XR1    POINT TO THE ECB

4C1E F4 30 78      3852+      CCP  ENABLE,PMRQ      REENABLE ALL INTERRUPTS
4C21 F4 10 00      3853+      SVC  0              ISSUE WAIT FOR INVITE COMPLETE
4C24 03            4C24 3854+*          OR SHUTDOWN REQUEST
4C24 03            4C24 3855+      DC   XL1'03'        RIB TO WAIT ON ECB LIST

3857+*          WAIT HAS COMPLETED - TEST IF SHUTDOWN OR INVITE COMPLETE

4C25 F4 30 79      3859+      CCP  DISABL,PMRQ      DISABLE INTERRUPTS
4C28 34 02 4E3A    3860+      ST   II@PRL,XR2      SAVE PARAMETER LIST POINTER
    
```

3863+*****
 3864+* RETURN AFTER BEING POSTED THAT A TUB HAS BEEN PUT IN THE TCB INVITE *
 3865+* INPUT TUB QUEUE OR SHUTDOWN HAS BEEN REQUESTED BY SYSTEM OPERATOR *
 3866+*****

3868+* DETERMINE IF POST WAS FOR INVITE INPUT COMPLETE
 3869+* IF NOT MUST HAVE BEEN SHUTDOWN REQUESTED
 3870+* XR1 POINT TO TCBE CB.

4C2C 7B 01 00 3872+ SBF 0(,XR1),TCBACW RESET ACCEPT WAIT BIT
 4C2F 7D 40 02 3873+ CLI 2(,XR1),IIPPOST WAS POST FOR INVITE COMPLETE?
 4C32 C0 01 4C01 3874+ BNE IITELL JUMP IF NOT INVITE POST

3876+* HAD POST OF INVITE INPUT COMPLETE
 4C36 BC FF 0D 3877+ MVI PL\$OPC(,XR2),ALLBIT SET OP TO SHOW SECONDARY ENTRY
 4C39 C0 87 4BE9 3878+ B IICALL BRANCH TO RECALL TRANSIENT

3880+*****
 3881+* TELL USER ABOUT SHUTDOWN REQUEST AND *
 3882+* SET PLEFFL IN PARMATER LIST TO OUTSTANDING INVITES. *
 3883+*****

4C3D 3885+IIPGSH EQU * TELL USER ABOUT SHUTDOWN. @01
 4C3D BC 04 01 3886+ MVI PLRTC(,XR2),RCXSHD PLUG SHUTDOWN RETURN CODE. @01

4C40 3888+IINTSH EQU * SET PLEFFL TO OUTSTANDING @01
 4C40 35 01 002E 3889+ L NCTCB@,XR1 INVITES. XR1 POINTS TO TCB. @01
 4C44 BC 00 04 3890+ MVI PLEFFL-1(,XR2),NOBIT HIGH ORDER BYTE IS ZERO AND @01
 4C47 9C 00 05 DE 3891+ MVC PLEFFL-0(,XR2),TCBIIC(1,XR1) MOVE OUTSTANDING INVITES. @01
 4C4B C0 87 4BD5 3892+ B IITEND BRANCH TO RETURN TO USER. @01

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3895+*****
3896+*          ACCEPT INPUT SATISFIED          *
3897+*****
    
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4C4F 3899+IIGGSF EQU *          GET GENERAL SATISFIED
4C4F F4 30 79          3900+    CCP  DISABL,PMRQ          DISABLE ALL INTERRUPTS
4C52 34 02 4E3A        3901+    ST   II@PRL,XR2          STORE PARAMETER LIST ADDRESS
4C56 B5 02 0B          3902+    L    PLTUBA(,XR2),XR2      POINT AT TUB
4C59 35 01 002E        3903+    L    NCTCB@,XR1          POINT XR1 AT CURRENT TCB
4C5D 4F 00 DE 4633    3904+    SLC  TCBIIC(1,XR1),X$0001  SUBTRACT 1 FROM INVITE COUNT
4C62 BB 18 0C          3905+    SBF  TUBAT2(,XR2),TUBIIS+TUBIIQ SET OFF TUB INVITE STATUS BITS
    
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4C65 35 01 4E3A        3907+*  DEQUEUE THE TUB FROM INVITE INPUTE TUB QUEUE
4C65 35 01 4E3A        3908+    L    II@PRL,XR1          POINT TO PARAMETER LIST
4C69 75 01 0F          3909+    L    PL$RTC(,XR1),XR1    POINT TO PREVIOUS TUB
4C6C 6C 01 00 10      3910+    MVC  0(2,XR1),TUBINQ(,XR2) DEQUEUE THE TUB
4C70 35 01 002E        3912+    L    NCTCB@,XR1          POINT TO THE TCB
4C74 78 40 E5          3913+    TBN  TCBOFG(,XR1),TCBCHN TASK CHAIN REQUEST?
4C77 F2 10 07          3914+    JT   IIYTC              YES, DONT CHANGE THE NAME
4C7A B5 02 18          3915+    L    TUBTNT(,XR2),XR2    . POINT TO THE TUB'S TNT
4C7D 6C 05 58 05      3916+    MVC  NPJOB-2(6,XR1),TNTNAM(,XR2) MOVE TERM NAME TO TCB
    
```

3919+*****
 3920+* NOW POST CM TASK TO PROCESS THE ACCEPT INPUT DATA *
 3921+*****

3923+* MOVE THE PARAMETER LIST TO THE TCB

4C81 35 02 4E3A 3925+IIYTC L II@PRL, XR2 POINT XR2 AT PARAMETER LIST
 4C85 6C 01 D8 09 3926+ MVC TCBWK(2, XR1), PLRECA(, XR2) SAVE PLRECA IN TCBWK THEN
 4C89 D2 01 C4 3927+ LA TCBPL(, XR1), XR1 POINT TO PARM LIST AREA IN TCB
 4C8C 6C 0F 0F 0F 3928+ MVC PL\$RTC(16, XR1), PL\$RTC(, XR2) MOVE THE PARM LIST TO THE TCB
 4C90 7B 40 03 3929+ SBF PLOPC(, XR1), BIT1 . CHANCE ANW TO ACI OPCODE. @01
 4C93 75 02 0B 3930+ L PLTUBA(, XR1), XR2 . POINT TO THE TUB SELECTED.
 4C96 75 01 09 3931+ L PLRECA(, XR1), XR1 . POINT TO THE USER'S REC. AREA
 4C99 B8 80 0E 3932+ TBN TUBAT4(, XR2), TUBCHN . CHAIN TASK TUB ON ACCEPT?
 4C9C F2 90 07 3933+ JF IINTCH . NO, GO INSERT SYMB TERM NAME.
 4C9F 6C 05 05 1A 3934+ MVC 5(6, XR1), TUBPNM(, XR2) . MOVE NAME OF REQUESTING TASK
 4CA3 F2 87 07 3935+ J IITCHH . SKIP TNT NAME INSERT.

4CA6 B5 02 18 4CA6 3937+IINTCH EQU *
 4CA9 6C 05 05 05 3938+ L TUBTNT(, XR2), XR2 POINT TO THE TNT ENTRY
 3939+ MVC IISTNL-1(IISTNL, XR1), TNTNAM(, XR2) MOVE STN TO RECORD AREA

4CAD 35 02 4E3A 4CAD 3941+IITCHH EQU *
 3942+ L II@PRL, XR2 RESTORE PARAMETER LIST POINTER

4CB1 35 02 002E 4CB1 3944+ ENTRY IINDFF
 4CB5 AF 02 D6 D6 4CB1 3945+IINDFF EQU *
 3946+ L NCTCB@, XR2 POINT TO THE TCB
 4CB9 E2 02 C4 3947+ SLC TCBPL+PLECB+2(3, XR2), TCBPL+PLECB+2(, XR2) CLEAR THE ECB
 4CBC AF 01 09 09 3948+ LA TCBPL(, XR2), XR2 POINT TO THE PARAMETER LIST
 3949+ SLC PLRECA(2, XR2), PLRECA(, XR2) CLEAR PLRECA

3951+* QUEUE THE ACCEPT INPUT REQUEST ON CM'S REQUEST QUEUE

4CC0 C0 87 4D14 3953+ B IIQSUB GO QUEUE THE REQUEST.
 4CC4 35 02 4E3A 3954+ L II@PRL, XR2 RESTORE PARAMETER LIST POINTER
 4CC8 3B 20 4630 3955+ SBF \$FLGC, #NTRAC REENABLE TRACE BEFORE CM POST

3957+* NOW POST THE CM WITH A REQUEST TO PROCESS
 3958+* XR1 SET TO CM'S ECB IN IIQSUB ABOVE. @06

4CCC F4 30 78 3960+ CCP ENABLE, PMRQ REENABLE ALL INTERRUPTS
 4CCF F4 10 00 3961+ SVC 0 POST DFF WITH THE REQUEST
 4CD2 05 4CD2 3962+ DC XL1'05' RIB FOR POST

3964+* CM IS NOW POSTED - WAIT ON COMPLETION OF THE ACCEPT INPUT

4CD3 35 01 002E 3966+ L NCTCB@, XR1 POINT TO THE TCB
 4CD7 D2 01 D4 3967+ LA TCBPL+PLECB(, XR1), XR1 POINT AT THE ECB IN THE TCB PL
 4CDA F4 10 00 3968+ SVC 0 NOW WAIT ON THE POST OF THE ECB
 4CDD 03 4CDD 3969+ DC XL1'03' RIB FOR EXPLICIT WAIT

3972+* WE ARE POSTED COMPLETE - MOVE THE PARM LIST BACK AND RETURN

4CDE	F4	30	79	3974+	CCP	DISABL,PMRQ	DISABLE INTERRUPTS
4CE1	35	01	002E	3975+	L	NCTCB@,XR1	POINT XR1 AT THE TCB
4CE5	9C	05	0F D3	3976+	MVC	PL\$RTC(6,XR2),TCBPL+PL\$RTC(,XR1)	MOVE THE PARM LIST
4CE9	9C	07	07 CB	3977+	MVC	PLINL(8,XR2),TCBPL+PLINL(,XR1)	BACK TO THE UPA
4CED	B5	01	0B	3979+	L	PLTUBA(,XR2),XR1	LOCATE TUB AGAIN
4CF0	78	80	0E	3980+	TBN	TUBAT4(,XR1),TUBCHN	THIS A CHAIN REQUEST TUB?
4CF3	F2	90	1A	3981+	JF	IINTCN	NO, SKIP DEQUEUEING IT
4CF6	8D	01	01 4633	3982+	CLC	PLRTC(2,XR2),X\$0001	RETURN CODE=00 OR 01?
4CFB	F2	84	03	3983+	JH	IITCNG	NO,DONT SET CHAIN RETURN CODE
4CFE	BA	0E	01	3984+	SBN	PLRTC(,XR2),X'0E'	INDICATE CHAIN REQUEST
				4D01	3986+	IITCNG EQU *	
4D01	4C	01	14 47AD	3987+	MVC	TUBTUB(2,XR1),@DTUBQ	INSERT THIS TUB INTO DUMMY
4D06	34	01	47AD	3988+	ST	@DTUBQ,XR1	TUB FREE CHAIN.
4D0A	7B	A0	0C	3989+	SBF	TUBAT2(,XR1),TUBIMI+TUBDTA	RESET FOR NEXT CHAIN REQUEST
4D0D	7A	40	0C	3990+	SBN	TUBAT2(,XR1),TUBCMD	RESET FOR NEXT CHAIN REQUEST
				4D10	3991+	IINTCN EQU *	
4D10	C0	87	4BD5	3992+	B	IIAEND	BRANCH TO RETURN TO REQUESTOR

```

3995+*****
3996+*          QUEUE THE REQUEST ON THE @PRLQ OR @CSNRQ IN CCP COMMON      *
3997+*          AREA WHICHEVER OWNS THE TUB.  POINT XR1 TO CM'S OR CS'S      *
3998+*          ECB BEFORE RETURNING TO CALLER.                               *
3999+*****
    
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4D14 34 08 4D4B      4D14 4001+      ENTRY IIQSUB
4D18 B5 01 0B      4002+IIQSUB ST   IIQRET+3,ARR      SAVE RETURN ADDRESS
4D1B 79 80 0B      4003+      L     PLTUBA(,XR2),XR1      POINT TO THE TUB
4D1E 79 80 0E      4004+      TBF  TUBAT1(,XR1),TUBKNM    THIS THE CONSOLE TUB OR
4D21 F2 90 08      4005+      TBF  TUBAT4(,XR1),TUBCHN    * A DUMMY TASKCHAIN TUB ?
4D24 75 01 16      4006+      JF   IIQBSC                  SKIP UPDATING REQUEST COUNTER
4D27 4E 00 7C 4633 4008+IIQNRC L     TUBLCB(,XR1),XR1      POINT TO THE LCB
4D30 7D 00 00      4009+      ALC  LCBNW#(1,XR1),X$0001   UPDATE THE NEW REQUEST COUNTER
4D33 F2 81 07      4011+IIQBSC LA   @PRLQ-PLCHN,XR1      POINT $CC4CM'S QUEUE FIELD.
4D36 75 01 01      4012+IIQLOP CLI  PLCHN-1(,XR1),NOBIT     IS THIS THE END OF THE CHAIN?
4D39 C0 87 4D30      4013+      JE   IIQIT                   BRANCH TO QUEUE IF YES
4D40 AF 01 01 01      4014+      L     PLCHN(,XR1),XR1      POINT TO THE NEXT LIST IN CHAIN
4D44 C2 01 4739      4015+      B     IIQLOP                 LOOP TO LOOK FOR LAST ONE
4D48 C0 87 0000      4017+*      HAVE FOUND THE END OF THE CHAIN - QUEUE THIS REQUEST ON THE END
4D48 C0 87 0000      4019+IIQIT ST   PLCHN(,XR1),XR2      ADD THE REQUEST ON THE END
4D48 C0 87 0000      4020+      SLC  PLCHN(2,XR2),PLCHN(,XR2)  CLEAR THE CHAIN POINTER
4D48 C0 87 0000      4021+      LA   $CMECB,XR1            POINT TO $CC4CM'S ECB.
4D48 C0 87 0000      4023+IIQRET B   *-*                RETURN
    
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\$CC4#1 COMMUNICATIONS I/O INTERFACE -- SYSTEM I/O

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4026+*****
4027+*      ENTRY POINT FOR I/O INTERFACE FOR THE SYSTEM      *
4028+*****

4D4C 4030+      ENTRY $CC4IS
4D4C 4031+$CC4IS EQU      *      I/O INTERFACE FOR SYSTEM
4D4C F4 30 79   4032+      CCP      DISABL,PMRQ      DISABLE ALL INTERRUPTS
4D4F 36 08 4633 4033+      A      X$0001,ARR      POINT TO RIGHT END OF PARM LIST@
4D53 34 08 4D60 4034+      ST      MOVE+5,ARR      STORE ADDR OF PARM LIST ADDR
4D57 36 08 4633 4035+      A      X$0001,ARR      BUMP ARR TO NSI

4D5B 0C 01 4E3A 0000 4037+* MOVE PARM LIST ADDR TO II@PRL
4038+MOVE      MVC      II@PRL(2),*-*      MOVE PARM LIST ADDR TO II@PRL

4D61 34 02 4E3C 4040+*      SAVE THE REGISTERS
4D65 35 02 002E 4041+      ST      IICARR,XR2      SAVE XR2
4D69 B4 01 C7   4042+      L      NCTCB@,XR2      POINT TO THE TCB
4D6C B4 08 C5   4043+      ST      IIIIX1(,XR2),XR1      SAVE XR1 IN THE TCB.
4D6F 8C 01 C9 4E3C 4044+      ST      IIIIR(,XR2),ARR      SAVE ARR IN THE TCB.
4045+      MVC      IIIIX2(2,XR2),IICARR      SAVE XR2 THERE ALSO.

4047+*****
4048+* POST CM/CS WITH TP IO REQUEST      @21
4049+* WAIT ON RESPONSE FROM CM/CS      @21
4050+* RETURN TO INVOKER      *
4051+*****

4D74 35 02 4E3A 4053+      L      II@PRL,XR2      POINT XR2 AT PARM LIST
4D78 AF 01 01 01 4054+      SLC     PLCHN(2,XR2),PLCHN(,XR2) CLEAR CHAIN POINTER IN PARM LIST
4D7C AF 03 0F 0F 4055+      SLC     PL$RTC(4,XR2),PL$RTC(,XR2) ZERO INTERNAL RETURN CODE
4056+*      .AND INTERNAL OP-CODE
4D80 B8 02 03   4057+      TBN     PLOPC(,XR2),OPPUT      .OPERATION INVOLVE PUT ?      @08
4D83 F2 10 03   4058+      JT      IS0010      .YES, BRANCH      @08
4D86 BC 00 08   4059+      MVI     PLRECA-1(,XR2),NOBIT      .ZERO OUT RECORD ADDRESS

4D89 B5 01 0B   4061+*      TAKE A TRACE AT THIS POINT
4D8C C0 87 46A4 4D89 4062+IS0010 EQU      *
4D90 ED         4063+      L      PLTUBA(,XR2),XR1      POINT XR1 AT TUB
4064+      B      CC4TT      BRANCH TO TRACE ROUTINE
4065+      DC     AL1(TTIS)      TRACE FOR $CC4IS

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4068+*****
4069+* HAVE TPIO REQUEST FOR A TERMINAL *
4070+* POST CM/CS AND ISSUE WAIT @21
4071+*****

4073+*POST CM FOR TP REQUEST
4D91 4074+ISREQ EQU * HAVE TP REQUEST FOR $CC4CM

4076+* IF THIS IS AN INVITE OPERATION, MOVE PARM LIST TO THE TUB
4D91 B8 80 02 4077+ TBN PLOPM(,XR2),OP$SYS IS THIS A SYSTEM REQUEST, AND
4D94 B8 05 03 4078+ TBN PLOPC(,XR2),OPINV IS THIS AN INVITE OPERATION?
4D97 B9 80 03 4079+ TBF PLOPC(,XR2),OPJRSH AND NOT JUST RESCHEDULED? @02
4D9A F2 90 1D 4080+ JF ISWTOP BRANCH IF NOT ALL TRUE. @02

4D9D 79 80 0C 4082+ TBF TUBAT2(,XR1),TUBDTA TERMINAL IN DME?
4DA0 38 10 462E 4083+ TBN $FLGA,CPSHUT AND IS SHUTDOWN PENDING?
4DA4 F2 90 0C 4084+ JF ISNDQI IF BOTH ARN'T TRUE SKIP RESET
4DA7 BB 05 03 4085+ SBF PLOPC(,XR2),OPINV DESCHEDULE THE SYSTEM INVITE
4DAA B9 02 03 4086+ TBF PLOPC(,XR2),OPPUT TEST IF NOT A SYSTEM PUT @04
4DAD F2 10 66 4087+ JT ISREGS EGNORE REQUEST ALL TOGETHER. @04
4DB0 F2 87 07 4088+ J ISWTOP GO RESTORE TUB POINTER

4DB3 6C 0F 36 0F 4090+ISNDQI MVC TUBPL+PL$RTC(16,XR1),PL$RTC(,XR2) MOVE PARM LIST TO TUB
4DB7 D2 02 27 4091+ LA TUBPL(,XR1),XR2 POINT XR2 AT TUB PARM LIST

4DBA B5 01 0B 4093+ISWTOP L PLTUBA(,XR2),XR1 RESTORE TUB POINTER IN XR1

4DBD 4095+ ENTRY ISREQ1
4DBD 4096+ISREQ1 EQU *
4DBD B9 80 03 4097+ TBF PLOPC(,XR2),OPJRSH RESCHEDULE ONLY REQUEST AND
4DC0 B8 01 03 4098+ TBN PLOPC(,XR2),OPGET DOES OP INVOLVE GET
4DC3 B9 04 02 4099+ TBF PLOPM(,XR2),OPSTOP BUT NOT STOP OP
4DC6 F2 90 03 4100+ JF ISMVPS JUMP IF GET NOT INVOLVED

4102+* OPERATION TO TERMINAL INVOLVES GET SO SET ON TUBIIS BIT

4DC9 7A 10 0C 4104+ SBN TUBAT2(,XR1),TUBIIS SET ON READ SCHEDULED BIT

4DCC 4106+ISMVPS EQU * SET UP POST FIELD
4DCC B9 24 02 4107+ TBF PLOPM(,XR2),OPSTOP+OPDISC STOP INVITE OR DISCONNECT? @08
4DCF B8 02 03 4108+ TBN PLOPC(,XR2),OPPUT OR NOT A PUT OPERATION. @08
4DD2 F2 90 1B 4109+ JF ISPOST JUMP IF EITHER. @08
4DD5 7D 08 23 4110+ CLI TUBPHY(,XR1),TUBCPU IS THE IO TO A CPU?
4DD8 F2 01 15 4111+ JNE ISPOST GO TO POST CM IF NOT
4DDB B5 01 09 4112+ L PLRECA(,XR2),XR1 POINT TO RECORD AREA
4DDE 7D E2 00 4113+ CLI 0(,XR1),SMESG IS THIS AN 'S' MESSAGE TO A CPU?
4DE1 F2 01 0C 4114+ JNE ISPOST BRANCH TO POST IF NOT
4DE4 BC 00 08 4115+ISCNPT MVI PLRECA-1(,XR2),NOBIT ZERO RECORD ADDRESS @08
4DE7 BB 02 03 4116+ SBF PLOPC(,XR2),OPPUT SET TO IGNORE THE PUT
4DEA B8 01 03 4117+ TBN PLOPC(,XR2),OPGET IS A GET TO BE DONE?
4DED F2 90 26 4118+ JF ISREGS SKIP POST AND WAIT IF YES

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4121+*****
 4122+* QUEUE THE PARAMETER LIST ON THE APPROPRIATE LCB CHAIN *
 4123+*****

4DF0 C0 87 4D14 4DF0 4125+ISPOST EQU *
 4126+ B IIQSUB BRANCH TO QUEUE THE LCB
 4127+* XR1 POINTS TO CM OR CS ECB.

4129+*****
 4130+* BRANCH TO POST ROUTINE *
 4131+*****

4DF4 BC 00 10 4133+ MVI PLECB(,XR2),NOBIT CLEAR ECB FLAG BYTE
 4DF7 F4 30 78 4134+ CCP ENABLE,PMRQ REENABLE INTERRUPTS
 4DFA 3B 20 4630 4135+ SBF \$FLGC,#NTRAC ALLOW TRACE
 4DFE F4 10 00 4136+ SVC 0 SUPERVISOR CALL
 4E01 05 4E01 4137+ DC XL1'05' RIB FOR POST

4139+*****
 4140+* W A I T *
 4141+*****

4E02 B8 80 02 4143+ TBN PLOPM(,XR2),OP\$SYS IS THIS REQUEST TO BE WAITED ON?
 4E05 F2 90 0E 4144+ JF ISREGS BRANCH IF NOT
 4E08 E2 01 10 4145+ LA PLECB(,XR2),XR1 POINT TO THE ECB
 4E0B F4 10 00 4146+ISWAIT SVC 0 SUPERVISOR CALL
 4E0E 03 4E0E 4147+ DC XL1'03' RIB FOR WAIT
 4E0F 78 40 00 4148+ TBN 0(,XR1),IIPOST WAS MY ECB POSTED?
 4E12 C0 90 4E0B 4149+ BF ISWAIT LOOP BACK TO WAIT IF NOT

4151+*****
 4152+* RETURN HERE AFTER WAIT SATISFIED WITH POST *
 4153+*****

4E16 C0 87 46A4 4E16 4155+ISREGS EQU * RESTORE THE REGISTERS
 4E1A EE 4E1A 4156+ B CC4TT BRANCH TO TRACE
 4E1B 35 01 002E 4157+ DC AL1(TTIIRT) TRACE ID
 4E1F F4 30 79 4158+ L NCTCB@,XR1 POINT TO THE TCB
 4E22 1C 01 4E3C C5 4159+ CCP DISABL,PMRQ DISABLE ALL INTERUPTS. @05
 4E27 75 02 C9 4160+ MVC IICARR,IIIIR(2,XR1) SAVE THE RETURN ADDRESS
 4E2A 75 01 C7 4161+ L IIIX2(,XR1),XR2 RESTORE XR2
 4E2D 35 10 4E3C 4162+ L IIIX1(,XR1),XR1 RESTORE XR1
 4163+ L IICARR,IAR RETURN TO CALLER

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 114
			4165+	*****				
			4166+*	CONSTANTS AND WORK AREAS				
			4167+	*****				
4E31		4E32	4169+	IIVTNT DS	AL2	SAVE AREA FOR TNT ENTRY ADDRESS		
		00E2	4170+	SMESG EQU	C'S'	IDENTIFIER FOR AN 'S' MESSAGE		
		0006	4171+	IISTNL EQU	6	LENGHT OF SYMBOLIC TERMINAL NAME		
4E33	0006	4E34	4172+	CC0006 DC	IL2'6'	2-BYTE BINARY 6		
		0000	4173+	IIZERO EQU	0			
		00F0	4174+	MCTIN EQU	X'F0'	INPUT COMPONENT BITS		
		000F	4175+	MCTOUT EQU	X'0F'	OUTPUT COMPONENT BITS		
4E35	0047	4E36	4176+	IIMAXK DC	AL2(0071)	MAX OUTPUT LENGTH FOR CONSOLE		
4E37	006B	4E38	4177+	IIMAXC DC	AL2(0107)	MAX LENGTH FOR WTO		
		0078	4178+	ENABLE EQU	X'78'	INTERRUPTS ENABLED		
		0079	4179+	DISABL EQU	X'79'	INTERRUPTS DISABLED		
		0030	4180+	PMRQ EQU	X'30'	Q-CODE TO LOAD PMR		
		0010	4181+	IIWTO EQU	X'10'	FUNCTION CODE FOR WTO		
		0020	4182+	IIWTOR EQU	X'20'	FUNCTION CODE FOR WTOR		
4E39	0000	4E3A	4183+	II@PRL DC	XL2'00'	SAVE AREA FOR PARAMETER LIST @		
		0040	4184+	IIPOST EQU	X'40'	ECB POST BIT		
		0080	4185+	IIWAIT EQU	X'80'	ECB WAIT BIT		
		0020	4186+	IISKIP EQU	X'20'	ECB SKIP BIT		
4E3B	0000	4E3C	4187+	IICARR DC	XL2'00'	ARR SAVE AREA		
		00C5	4188+	IIIR EQU	TCBPL+1	ARR SAVE AREA IN TCB		
		00C7	4189+	IIIX1 EQU	TCBPL+3	XR1 SAVE AREA IN TCB		
		00C9	4190+	IIIX2 EQU	TCBPL+5	XR2 SAVE AREA IN TCB		
		0020	4191+	IINODA EQU	X'20'	CHARACTER FOR ZERO DATA - WTOR		
		0040	4192+	IIBLNK EQU	X'40'	CHARACTER BLANK		
		002F	4193+	DSFLAG EQU	X'002F'	FLAG BYTE FOR ENVIRONMENT INDS.		
		0080	4194+	ENVSAV EQU	X'80'	SAVE ENVIRONMENT.		
		0015	4195+	N2G0 EQU	X'0015'	DISPATCHER ADDRESS.		
		0000	4196+	IITIMR EQU	X'00'	TIMER HOURS/MINUTES/SECONDS		
		0010	4197+	IITMWT EQU	X'10'	TIMER WAIT FLAG		
		0007	4198+	IIWFLG EQU	X'07'	WAIT FLAG DISPLACEMENT		
4E3D	000A	4E3E	4199+	IILN10 DC	XL2'000A'	WAIT DATA AREA LENGTH		
		0003	4201+	NHIGH EQU	LO+EQ	NOT HIGH TEST	@10	
		0005	4202+	NLOW EQU	HI+EQ	NOT LOW TEST	@10	
		0006	4203+	NEQ EQU	HI+LO	NOT EQUAL TEST.	@10	

4205+* WTO OR WTOR PARAMETER LIST

4E3F	FF	4E3F	4207+	DC	XL1'FF'	TYPE AND FORMAT OF WTO	
4E40	00	4E40	4208+	DC	AL1(X'00')	SYSTEM OPTIONS	
4E41	C3D7	4E42	4209+	DC	CL2'CP'	COMPONENT IDENTIFICATION (CCP)	
4E43	E460	4E44	4210+	DC	CL2'U-'	MESSAGE ID - PART 1	
4E45	10	4E45	4211+	DC	AL1(IIWTO)	FUNCTION AND OPTIONS	@15
4E46	4040	4E47	4212+	DC	CL2' '	MESSAGE ID - PART 2	
4E48	00	4E48	4213+	DC	AL1(00)	TEXT LENGTH	@15
4E49	0000	4E4A	4214+	DC	AL2(##)	TEXT ADDRESS	@15
4E4B	50	4E4B	4215+	DC	AL1(80)	REPLY LENGTH	@15
4E4C	0000	4E4D	4216+IICNPM	DC	AL2(##)	REPLY ADDRESS	@15
		000F	4218+IIBOPC	EQU	X'0F'	DISPLACEMENT TO DTFOPC	@14
		0040	4219+IIBPUT	EQU	X'40'	DTFOPC BYTE FOR A PUT	@14
4E4E	0000	4E4F	4220+IIWORK	DC	XL2'00'	WORK AREA FOR BLOCK LENGTH	
4E50	0013	4E51	4221+II19	DC	IL2'19'	ADD LENGTH OF PARM LIST GETMAIN	

4223+*****
 4224+* OP CODE VALIDITY TABLE *
 4225+*****

0000 4227+IIINVD EQU 0 INVALID OPERATION
 0004 4228+IIVKNS EQU BIT5 BIT IN VALIDITY BYTE FOR VALID
 4229+* OPERATION WITH CONSOLE
 0002 4230+IIVBLK EQU BIT6 BIT IN VALIDITY BYTE FOR VALID
 4231+* OPERATION WITH BLANK STN
 0001 4232+IIVSTN EQU BIT7 BIT IN VALIDITY BYTE FOR VALID
 4233+* OPERATION WITH STN
 0011 4234+TANDNE EQU X'11' TRUE AND NOT EQUAL CONDITION

4236+* OP CODE VALIDITY TABLE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	USER	OP	STN	BLANKS	CONSOLE
		4E52	4238+	ENTRY	IIVTBL					
		4E52	4239+	IIVTBL	EQU *					
4E52	07	4E52	4240+	DC	AL1(IIVSTN+IIVBLK+IIVKNS)	00		X	X	X
4E53	03	4E53	4241+	DC	AL1(IIVSTN+IIVBLK)	01		X	X	
4E54	07	4E54	4242+	DC	AL1(IIVSTN+IIVBLK+IIVKNS)	02		X	X	X
4E55	07	4E55	4243+	DC	AL1(IIVSTN+IIVBLK+IIVKNS)	03		X	X	X
4E56	07	4E56	4244+	DC	AL1(IIVSTN+IIVBLK+IIVKNS)	04		X	X	X
4E57	03	4E57	4245+	DC	AL1(IIVSTN+IIVBLK)	05		X	X	
4E58	07	4E58	4246+	DC	AL1(IIVSTN+IIVBLK+IIVKNS)	06		X	X	X
4E59	00	4E59	4247+	DC	AL1(IIINVD)	07				
4E5A	07	4E5A	4248+	DC	AL1(IIVSTN+IIVBLK+IIVKNS)	08		X	X	X
4E5B	01	4E5B	4249+	DC	AL1(IIVSTN)	09		X		
4E5C	03	4E5C	4250+	DC	AL1(IIVSTN+IIVBLK)	10		X	X	
4E5D	00	4E5D	4251+	DC	AL1(IIINVD)	11				
4E5E	00	4E5E	4252+	DC	AL1(IIINVD)	12				
4E5F	00	4E5F	4253+	DC	AL1(IIINVD)	13				
4E60	00	4E60	4254+	DC	AL1(IIINVD)	14				
4E61	00	4E61	4255+	DC	AL1(IIINVD)	15				

4257+* BIT 5 ON - VALID OP FOR CONSOLE
 4258+* BIT 6 ON - VALID OP FOR BLANKS
 4259+* BIT 7 ON - VALID OP FOR SYMBOLIC
 4260+* TERMINAL NAME

4E62 4E62 4262+IIVBYT DS CL1 VALIDITY BYTE - BIT SIGNIFICANT
 4263+* *** END OF MACRO '\$E060 *****'
 4264 * \$E038 MXL-00000000000000,CON-1 CCP00173
 4265+* BEGIN MACRO '\$E038' 1/16/79 @01
 4E63 4266+TA@PGM EQU * START OF PGM LIST

4268+*-----FIXED PORTION OF TRANSIENT LIST-----*

4E63 00 000C 4270+CC4AB EQU 12 ACCEPT INPUT POST PRE-PROCESSOR
 4E63 4271+ DC XL1'00'

\$CC4#1 COMMUNICATIONS I/O INTERFACE -- SYSTEM I/O

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 117
4E64	C1C2			4E65	4272+	DC	CL2'AB'			
				000F	4273+CC4A2	EQU	15			ACCEPT INPUT POST PRE-PROCESSOR ALLOCATION CONTROL
4E66	00			4E66	4274+	DC	XL1'00'			
4E67	C1F2			4E68	4275+	DC	CL2'A2'			ALLOCATION CONTROL
				0012	4276+CC4GA	EQU	18			GET ATTRIBUTES
4E69	00			4E69	4277+	DC	XL1'00'			
4E6A	C7C1			4E6B	4278+	DC	CL2'GA'			GET ATTRIBUTES
				0015	4279+CC4OP	EQU	21			USER FILE OPEN
4E6C	00			4E6C	4280+	DC	XL1'00'			
4E6D	D6D7			4E6E	4281+	DC	CL2'OP'			USER FILE OPEN
				0018	4282+CC4R1	EQU	24			COMMAND PROCESSOR CONTROL
4E6F	00			4E6F	4283+	DC	XL1'00'			
4E70	D9F1			4E71	4284+	DC	CL2'R1'			COMMAND PROCESSOR CONTROL
				001B	4285+CC4PR	EQU	27			COMMAND PROCESSOR RETURN
4E72	00			4E72	4286+	DC	XL1'00'			
4E73	D7D9			4E74	4287+	DC	CL2'PR'			COMMAND PROCESSOR RETURN
				001E	4288+CC4TD	EQU	30			TERMINATION CONTROL ROUTINE
4E75	00			4E75	4289+	DC	XL1'00'			
4E76	E3C4			4E77	4290+	DC	CL2'TD'			TERMINATION CONTROL ROUTINE
				0021	4291+CC4WC	EQU	33			USER T-P SWITCHED LINE CONNECT
4E78	00			4E78	4292+	DC	XL1'00'			
4E79	E6C3			4E7A	4293+	DC	CL2'WC'			USER T-P SWITCHED LINE CONNECT
				0024	4294+CC4WR	EQU	36			T-P TRANSLATION ERROR
4E7B	00			4E7B	4295+	DC	XL1'00'			
4E7C	E6D9			4E7D	4296+	DC	CL2'WR'			T-P TRANSLATION ERROR
				0027	4297+CC4MP	EQU	39			IGNORE PUT TO ERP T-P DEVICE
4E7E	00			4E7E	4298+	DC	XL1'00'			
4E7F	D4D7			4E80	4299+	DC	CL2'MP'			IGNORE PUT TO ERP T-P DEVICE
				002A	4300+CC4UN	EQU	42			BSCC POINT-TO-POINT LINE INIT@02
4E81	00			4E81	4301+	DC	XL1'00'			@02
4E82	E4D5			4E83	4302+	DC	CL2'UN'			BSCC POINT-TO-POINT LINE INIT@02
					4303+*-----					GETMAIN RECOVERY TRANSIENT PORTION OF PGM LIST-----@02
				002D	4304+CC4GR	EQU	45			GETMAIN RECOVERY TRANSIENT
4E84	00			4E84	4305+	DC	XL1'00'			
4E85	C7D9			4E86	4306+	DC	CL2'GR'			GETMAIN RECOVERY TRANSIENT
					4308+*-----					BSCA PORTION OF PROGRAM LIST-----*
				0030	4310+CC4BA	EQU	48			3270 SAVE STATUS
4E87	00			4E87	4311+	DC	XL1'00'			
4E88	C2C1			4E89	4312+	DC	CL2'BA'			3270 SAVE STATUS
				0033	4313+CC4BB	EQU	51			BSCA OUTPUT RECORD FORMATTING
4E8A	00			4E8A	4314+	DC	XL1'00'			
4E8B	C2C2			4E8C	4315+	DC	CL2'BB'			BSCA OUTPUT RECORD FORMATTING
				0036	4316+CC4BC	EQU	54			BSCA STOP POLLING
4E8D	00			4E8D	4317+	DC	XL1'00'			
4E8E	C2C3			4E8F	4318+	DC	CL2'BC'			BSCA STOP POLLING
				0039	4319+CC4BE	EQU	57			BSCA ERROR RECOVERY
4E90	00			4E90	4320+	DC	XL1'00'			
4E91	C2C5			4E92	4321+	DC	CL2'BE'			BSCA ERROR RECOVERY
				003C	4322+CC4BP	EQU	60			BSCA PURGE
4E93	00			4E93	4323+	DC	XL1'00'			
4E94	C2D7			4E95	4324+	DC	CL2'BP'			BSCA PURGE
				003F	4325+CC4BQ	EQU	63			BSCA STOP POLLING QUEUE
4E96	00			4E96	4326+	DC	XL1'00'			
4E97	C2D8			4E98	4327+	DC	CL2'BQ'			BSCA STOP POLLING QUEUE

\$CC4#1 COMMUNICATIONS I/O INTERFACE -- SYSTEM I/O

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ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          SCP GENERATOR  08/08/10  PAGE 118
      0042 4328+CC4BR  EQU   66                      BSCA USER T-P REQ VALIDATION
4E99 00      4E99 4329+      DC   XL1'00'
4E9A C2D9    4E9B 4330+      DC   CL2'BR'                      BSCA USER T-P REQ VALIDATION
      0045 4331+CC4B5  EQU   69                      BSCA 3735 SENSE STATUS
4E9C 00      4E9C 4332+      DC   XL1'00'
4E9D C2F5    4E9E 4333+      DC   CL2'B5'                      BSCA 3735 SENSE STATUS
      0048 4334+CC4B0  EQU   72                      BSCA 3270 COMMAND FORMATTING
4E9F 00      4E9F 4335+      DC   XL1'00'
4EA0 C2F0    4EA1 4336+      DC   CL2'B0'                      BSCA 3270 COMMAND FORMATTING
      004B 4337+CC4S0  EQU   75                      BSCA 3275 COMMAND FORMATTING
4EA2 00      4EA2 4338+      DC   XL1'00'
4EA3 E2F0    4EA4 4339+      DC   CL2'S0'                      BSCA 3275 COMMAND FORMATTING
      4341+*-----DEFINE THE EQUATE FOR THE # OF ENTRIES IN THE LIST-----*
      0016 4343+LSTSIZ EQU   22                      # OF ENTRIES IN TRANSIENT LIST
      4344+*
4600 4345      END   $CC4#1                      CCP00174
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\$CC4#1

CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
\$AM	001	46F7	0348	0350
\$AMA1	001	0010	0354	
\$AMA2	001	0008	0355	
\$AMBSY	001	0080	0351	
\$AMDFE	001	0020	0353	
\$AMERR	001	0002	0357	
\$AMFLG	001	46F7	0350	0359
\$AMID	001	46FC	0383	0384
\$AMPA	001	46F9	0369	0380
\$AMPF9	001	0004	0356	
\$AMSA	001	46FA	0380	0382
\$AMSHR	001	46FB	0382	0383
\$AMUR	001	46F8	0359	0369
\$AMUSE	001	46FD	0384	0385
\$AMWK	001	46F7	0347	0348
\$AMWRK	001	46FF	0385	
\$APEND	001	0040	0352	
\$CCCOM	001	4600	2239	2237
\$CCEND	001	47FF	0538	
\$CCINT	001	000C	2224	2928
\$CCTI2	001	000D	2225	
\$CCTR#	001	47E0	0526	0528
\$CCTR@	001	47DF	0525	0526
\$CC4#1	001	4600	0002	2239 4345
\$CC4CP	001	000A	2222	2302
\$CC4FM	001	0005	2217	2259
\$CC4GM	001	0004	2216	2256
\$CC4IG	001	000E	2226	2651
\$CC4II	001	480A	3120	2562 3119
\$CC4IS	001	4D4C	4031	2253 4030
\$CC4MS	001	0003	2215	
\$CC4MV	001	0007	2219	
\$CC4MX	001	0006	2218	2276
\$CC4OC	001	0016	2234	
\$CC4PI	001	0015	2233	2250
\$CC4SR	001	0008	2220	2285
\$CC4TI	001	0012	2230	2282
\$CC4TM	001	000B	2223	2305
\$CC4TR	001	0001	2213	2243
\$CC4TX	001	0002	2214	2246
\$CC4V1	001	0018	2236	
\$CM	001	4718	0429	0431
\$CMECB	001	4739	0467	0468 4021
\$CMFM	001	473C	0468	0469
\$CMRV2	001	4743	0474	
\$CMWK	001	4718	0428	0429
\$COMON	001	4600	0111	0114
\$CP	001	46C5	0291	0294 0314 0315 0316 0318 0322 0331 0333 0334 0335 0336 0339
\$CPCFR	001	0010	0324	
\$CPCM	001	46DE	0316	2610
\$CPCOM	001	46E3	0333	
\$CPDPG	001	0008	0325	
\$CPDTF	001	47DB	0511	0512
\$CPD1S	001	0004	0326	
\$CPEFL	001	46E6	0335	
\$CPFLG	001	46E2	0322	

\$CC4#1

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
\$CPFND	001	0001	0328	
\$CPFR	001	0080	0323	
\$CPIAR	001	47D7	0509	0510
\$CPLST	001	46CA	0294	
\$CPMSG	001	46E5	0339	0340
\$CPOCC	001	0048	0317	
\$CPPAS	001	0002	0327	
\$CPPF9	001	46DB	0315	2609
\$CPPRQ	001	46E3	0331	
\$CPQ	001	46D8	0314	2608
\$CPRCA	001	46E8	0336	
\$CPRTC	001	46E4	0334	
\$CPUSE	001	47DC	0512	0516
\$CPWK	001	46C5	0290	0291
\$CPWTO	001	0000	0319	
\$CPXR1	001	47D9	0510	0511
\$CP1ST	001	46E1	0318	2612
\$CSECB	001	47B7	0485	0486
\$CSFM	001	47B4	0484	0485
\$END1	001	46B6	0256	0267 0290 0347 0388 0428
\$FLGA	001	462E	0144	0155 3160 3828 4083
\$FLGB	001	462F	0155	0165 3163
\$FLGC	001	4630	0165	0176 3739* 3955* 4135*
\$FLGD	001	47DD	0516	0525
\$LGADR	001	0004	0873	
\$LGCAA	001	0009	0855	
\$LGCC	001	0003	0840	
\$LGCL	001	0007	0854	
\$LGCPL	001	0005	0874	
\$LGCPR	001	0006	0875	
\$LGDA	001	000B	0857	
\$LGDE0	001	0080	0844	
\$LGDE1	001	0040	0845	
\$LGDE2	001	0020	0846	
\$LGDE3	001	0010	0847	
\$LGDL	001	0009	0856	
\$LGDO	001	0006	0842	
\$LGDS	001	0001	0833	
\$LGFUN	001	0000	0832	
\$LGFUT	001	0000	0870	
\$LGHH	001	0005	0841	
\$LGII	001	0008	0853	
\$LGI1E	001	000D	0863	
\$LGI2E	001	000F	0864	
\$LGJ1E	001	0010	0865	
\$LGJ2E	001	0012	0866	
\$LGLNG	001	0002	0872	
\$LGO@@	001	000E	0868	3662* 3679*
\$LGOAA	001	000B	0860	3678*
\$LGOEC	001	000C	0862	
\$LGOL	001	0009	0859	3677*
\$LGON	001	000C	0867	3672* 3673 3675* 3697
\$LGOP0	001	0008	0848	
\$LGOP1	001	0004	0849	
\$LGOP2	001	0002	0850	
\$LGOP3	001	0001	0851	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
\$LGOTY	001	0006	0858	3669*
\$LGPGE	001	0001	0871	
\$LGSE1	001	0000	0835	
\$LGSE2	001	0001	0836	
\$LGSE4	001	0002	0837	
\$LGSE8	001	0003	0838	
\$MDPE8	001	0053	2089	
\$RESER	001	47B3	0480	0484
\$TM	001	4700	0389	0391
\$TMBSY	001	0080	0393	
\$TMCLZ	001	0010	0400	
\$TMDDR	001	0004	0402	
\$TMDER	001	0001	0404	
\$TMDFL	001	0002	0403	
\$TMDID	001	4707	0410	0413 0423
\$TMDMP	001	0040	0395	
\$TMECB	001	4703	0409	0410
\$TMEJ	001	0020	0397	
\$TMFLG	001	4700	0391	0407
\$TMSTK	001	0080	0392	
\$MTTCB	001	4702	0407	0409
\$TMTWA	001	0008	0401	
\$TMWK	001	4700	0388	0389
#	001	0000	0068	
##	001	0000	0069	4214 4216
###	001	0000	0070	
####	001	0000	0071	
#AERPA	001	0040	0523	
#AERPS	001	0020	0522	
#ANYS	001	47A9	0285	0286
#AVCOR	001	4663	0210	0211
#BIT7	001	0001	0517	
#BTRAC	001	0040	0167	
#CCMCL	001	472C	0454	0455
#CMARR	001	0080	0448	
#CMBK1	001	471D	0435	
#CMBK2	001	471E	0438	
#CMDTF	001	4719	0431	0432
#CMERP	001	4728	0445	0447
#CMFMD	001	0040	0449	
#CMFPL	001	4722	0441	0442
#CMLSL	001	4724	0442	0444
#CMMVL	001	4790	0277	0279
#CMPL	001	471B	0432	0434
#CMPTR	001	4720	0440	0441
#CMSWT	001	4729	0447	0453
#CMTFT	001	471E	0437	0438 0440
#CMTMA	001	471D	0434	0435 0437
#CMTRL	001	4790	0276	0277
#CMTUB	001	4726	0444	0445
#CPALC	001	0008	0520	
#CPCAN	001	0002	0162	
#CPCM	001	0007	0306	
#CPCPQ	001	0003	0304	
#CPDAT	001	00DF	0649	
#CPEND	001	000D	0310	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
#CPFLQ	001	4683	0236	0239
#CPOCC	001	0009	0307	
#CPPF9	001	0005	0305	
#CPTMR	001	0001	0303	
#CPWTO	001	000B	0309	
#CP1ST	001	000B	0308	
#CSERP	001	47C0	0489	0490
#CSOND	001	47BA	0486	0487
#DDRUN	001	0002	0518	
#DFCT	001	466F	0219	0220
#DFFOK	001	0080	0145	
#DPEND	001	47E4	0530	0535
#DUMPQ	001	467D	0230	0231
#EPL	001	0004	0150	
#FEHLT	001	0008	0160	
#GMS	001	465E	0206	0208
#HISTT	001	4734	0460	0462
#HITAS	001	4731	0457	0459
#INVPL	001	0008	0170	
#LAMWK	001	0009	0261	0388 0428
#LCMWK	001	002D	0263	
#LCPWK	001	0032	0260	0347 0388 0428
#LDFWK	001	000F	0259	0290 0347 0388 0428
#LSTSZ	001	46E7	0340	0341
#LTMWK	001	0018	0262	0428
#LWKWK	001	008F	0264	0267
#MATED	001	47CC	0495	0496
#MATST	001	47CB	0494	0495
#MATX3	001	47CD	0496	0503
#MRTAT	001	00E3	0651	
#MTRAC	001	0080	0166	
#NBND	001	4659	0203	0204
#NOPST	001	0004	0519	
#NTRAC	001	0020	0168	3739 3955 4135
#NTRCS	001	0001	0173	
#OPEND	001	472A	0453	0454
#PCTLN	001	466E	0218	0219
#PGMLD	001	00E1	0650	
#PRQIP	001	0010	0521	
#PUCNT	001	0001	0163	
#PUTTP	001	0010	0169	
#RESPR	001	0004	0161	
#RSVD1	001	4672	0222	0223
#RUFAD	001	47AF	0478	0479
#RUFCL	001	472E	0455	0456 3559
#SETID	001	4670	0220	0221
#SUALL	001	0080	0156	
#SUCMD	001	0020	0158	
#SUINT	001	0040	0157	
#TCACC	001	00E5	0652	
#TPANY	001	47A8	0284	0285 3631
#TPBUF	001	4661	0208	0209
#TPPUT	001	47A6	0283	0284 3565
#XDT	001	4671	0221	0222
@AERPQ	001	47E2	0528	0530
@ALOCQ	001	463B	0183	0184

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
@ANYTP	001	4740	0469	0470
@AVTCB	001	462D	0141	0144
@BTRAC	001	461D	0129	0130
@BUFA	001	4656	0202	0203
@CCPTB	001	47A4	0282	0283
@CC4FM	001	460B	0120	0121 2534
@CC4FR	001	46B1	0251	0252 2555
@CC4GM	001	4609	0119	0120 2531
@CC4II	001	46B3	0252	0256
@CC4IS	001	4607	0118	0119 2528
@CC4MX	001	4613	0124	0125 2540
@CC4PI	001	4605	0116	
@CC4SR	001	4619	0127	0128 2552
@CC4TA	001	4605	0117	0118 2525
@CC4TH	001	461B	0128	0129
@CC4TI	001	4617	0126	0127 2546
@CC4TR	001	4601	0114	0115
@CC4TX	001	4603	0115	0116 0117
@CKLST	001	4738	0464	0467
@CLB#1	001	47C2	0490	0491
@CMTCB	001	4625	0137	0138
@CPDMP	001	467F	0231	0232
@CPTCB	001	462B	0140	0141
@CSNRQ	001	47BC	0487	0488
@CSSTT	001	4733	0459	0460
@CSTCB	001	47BE	0488	0489
@CSXPT	001	4715	0420	
@C4TI2	001	4615	0125	0126 2543
@DEND	001	4680	0234	0235
@DFCT	001	4651	0197	
@DFEQ	001	4643	0187	0188
@DFTCB	001	4627	0138	0139
@DNEXT	001	4682	0235	
@DSTRT	001	467E	0233	0234
@DTUBQ	001	47AD	0477	0478 3987 3988*
@EPATR	001	4651	0196	0197 0198
@GMWTQ	001	4641	0186	0187
@HIBND	001	465D	0205	0206
@INVPL	001	4742	0470	0471 0474
@KNTUB	001	4669	0215	0216 3285
@LCB#1	001	464D	0194	0195
@LOBND	001	465B	0204	0205
@L1TCB	001	46ED	0343	0344
@L2TCB	001	46EF	0344	
@MLTAD	001	4736	0462	0464
@MLTIO	001	460D	0121	0122
@MLTOP	001	460F	0122	0123
@MTRAC	001	461F	0130	0133
@NDUMP	001	4682	0232	0236
@PRLQ	001	4645	0188	0191 4011
@PTX	001	466B	0216	0217
@PTXCS	001	466D	0217	0218
@PUCNT	001	4665	0211	0214
@QTUBS	001	463F	0185	0186
@ROCAT	001	464B	0193	0194
@TALST	001	4647	0191	0192

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SYMBOL	LEN	VALUE	DEFN	REFERENCES													
CC4BC	001	0036	4316														
CC4BE	001	0039	4319														
CC4BP	001	003C	4322														
CC4BQ	001	003F	4325														
CC4BR	001	0042	4328														
CC4B0	001	0048	4334														
CC4B5	001	0045	4331														
CC4FM	001	4690	0243	0244													
CC4FR	001	46AC	0250	0251													
CC4GA	001	0012	4276	3342													
CC4GM	001	468C	0242	0243													
CC4GR	001	002D	4304														
CC4IS	001	4688	0241	0242													
CC4MP	001	0027	4297														
CC4MX	001	4698	0245	0246													
CC4OP	001	0015	4279														
CC4PI	001	4684	0240	3341	3810												
CC4PR	001	001B	4285														
CC4R1	001	0018	4282														
CC4SR	001	46A8	0249	0250													
CC4S0	001	004B	4337														
CC4TA	001	4684	0239	0240	0241												
CC4TD	001	001E	4288														
CC4TH	001	0013	2231	2288													
CC4TI	001	46A0	0247	0248													
CC4TI2	001	0009	2221	2279													
CC4TT	001	46A4	0248	0249	3219	3786	3801	4064	4156								
CC4UN	001	002A	4300														
CC4WC	001	0021	4291														
CC4WR	001	0024	4294														
CORCNT	001	47AB	0286	0477													
CPISNW	001	0001	0152														
CPLPWD	001	4676	0226	0227													
CPPSWD	001	467C	0227	0230	0233												
CPSHD	001	0002	0151														
CPSHDP	001	0010	0159	3163													
CPSHUT	001	0010	0148	3160	3828	4083											
CPSOB1	001	0040	0146														
CPSOB2	001	0020	0147														
CPSU	001	0008	0149														
CS#MVL	001	47E6	0535														
CS#TRL	001	4600	0536														
CSPKF1	001	47D1	0504	0505													
CSPKF2	001	47D5	0506	0509													
CSPKR1	001	47CF	0503	0504													
CSPKR2	001	47D3	0505	0506													
C4TI2	001	469C	0246	0247	3140	3201	3234	3269	3279	3302	3316	3357	3392	3407	3423		
				3442	3451	3467	3483	3499	3511	3537	3551	3569	3587	3601	3635		
				3812													
DISABL	001	0079	4179	3122	3344	3690	3752	3843	3859	3900	3974	4032	4159				
DOVFL	001	0008	0078														
DSFLAG	001	002F	4193														
ENABLE	001	0078	4178	3242	3684	3740	3788	3852	3960	4134							
ENVSAV	001	0080	4194														
EQ	001	0001	0081	3292	4201	4202											
ERPCAL	001	0080	2087														

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
ERTIME	001	4744	0471	
FALSE	001	0010	0077	3292 3388 3490 3548 3598
FEHLT@	001	4784	0272	0273
FL2OLP	001	0020	2079	
FL2OLT	001	0008	2080	
HI	001	0004	0079	3388 4202 4203
IAR	001	0010	0049	2525* 2528* 2531* 2534* 2537* 2540* 2543* 2546* 2549* 2552* 2555* 4163*
II#TPB	001	4A94	3590	3584
II@PRL	002	4E3A	4183	3123* 3197 3218 3320 3663 3691* 3738 3753* 3766 3860* 3901* 3908
				3925 3942 3954 4038* 4053
IIACI	001	4BE1	3800	3172
IIAEND	001	4BD5	3782	3992
IIAIWT	001	4C0E	3842	3829
IIBLK	001	48E5	3264	
IIBLNK	001	0040	4192	3701
IIBOPC	001	000F	4218	3615
IIBPUT	001	0040	4219	3615
IIBTCB	001	495F	3355	3354
IIBUMP	003	48A2	3207	
IICALL	001	4BE9	3809	3878
IICARR	002	4E3C	4187	4041* 4045 4160* 4163
IICDNE	003	4B5E	3705	3693 3696 3702
IICKAI	001	486D	3169	3159
IICKBK	001	48F1	3273	3266
IICKIS	001	49B5	3429	3419
IICKNM	001	48DC	3251	3223
IICLOP	004	4B4B	3700	3704
IICNPM	002	4E4D	4216	3662
IICTSK	001	494D	3340	3149
IIDOIT	001	4B23	3683	
IIFINI	003	4BCA	3771	3706
IIFOND	001	48A9	3217	3155 3193
IIFUTH	001	4A45	3545	3523
IIGGSF	001	4C4F	3899	3815
IIGTA	001	493F	3333	3152 3200
IIIR	001	00C5	4188	4044* 4160
IIINRT	001	4AA6	3607	3598 3606
IIINVD	001	0000	4227	4247 4251 4252 4253 4254 4255
IIIOCP	001	49D7	3459	3439 3448
IIIOIOL	001	4A40	3535	3525 3536
IIIIOTS	003	49E0	3463	3460* 3461*
IIIREQ	001	4AE1	3647	3580 3630 3632 3646
IIIVLD	004	482C	3140	3135
IIIX1	001	00C7	4189	4043* 4162
IIIX2	001	00C9	4190	4045* 4161
IIKLEN	001	49FA	3487	3480
IIKNSL	001	49EB	3477	3378
IIKRQ	001	4919	3295	3286
IIILN10	002	4E3E	4199	3231
IILOOK	001	48A2	3206	3192
IIILTER	001	4A73	3564	3562
IIMAXC	002	4E38	4177	3493
IIMAXK	002	4E36	4176	3489
IIMVBY	005	481A	3132	3131*
IIMX40	003	4B09	3672	
IIMX80	004	4B0C	3673	3671

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SYMBOL	LEN	VALUE	DEFN	REFERENCES										
IINBLK	001	4928	3311	3254 3298										
IINCMF	001	4969	3359	3352										
IINDFF	001	4CB1	3945	3944										
IINDPD	001	4AC2	3621	3617 3620										
IINFND	001	488E	3196	3188										
IINIIS	001	49CC	3446	3433										
IINITB	001	4A54	3554	3548										
IINKRQ	001	490D	3288	3284										
IINNUL	001	4933	3319	3313										
IINODA	001	0020	4191	3695										
IINODG	003	4C14	3848											
IINOI1	001	4B78	3717	3712 3715										
IINTCH	001	4CA6	3937	3933										
IINTCN	001	4D10	3991	3981										
IINTSH	001	4C40	3888	3164 3166 3814										
IINWTR	004	4B17	3677	3668 3674										
IIOUTR	001	4AE1	3639	3609										
IIPGSH	001	4C3D	3885	3161 3835										
IIPHYS	001	4990	3395	3388										
IIPOST	001	0040	4184	3873 4148										
IIPRBQ	001	4B8F	3736											
IIQBSC	004	4D2C	4011	4006										
IIQIT	003	4D3D	4019	4013										
IIQLOP	003	4D30	4012	4015										
IIQNRC	003	4D24	4008											
IIQRET	004	4D48	4023	4002*										
IIQSUB	004	4D14	4002	3737 3953 4001 4126										
IIRBL	001	4923	3301	3292										
IIREND	001	4BBB	3765	3399 3619 3764										
IIRQTY	001	4A18	3506	3464 3490 3494										
IISEND	001	4BD0	3779	3368										
IISETS	001	4A87	3582											
IISKIP	001	0020	4186											
IISR	001	4900	3282	3276										
IISTNL	001	0006	4171	3191 3191 3239 3297 3297* 3939 3939*										
IISTNT	001	4937	3323	3322										
IITCBK	001	499D	3401	3397										
IITCHH	001	4CAD	3941	3935										
IITCMP	001	4968	3358	3356*										
IITCNG	001	4D01	3986	3983										
IITELL	004	4C01	3832	3874										
IITEND	001	4BD5	3785	3245 3367 3784 3892										
IITIMR	001	0000	4196	3240										
IITKNS	001	4977	3375	3336										
IITMWT	001	0010	4197	3240										
IITNTK	001	49AA	3417	3403										
IITNTN	003	487E	3187	3208										
IITOLG	001	4A13	3496	3492										
IIUPST	001	4B65	3710	3651 3709										
IIVBLK	001	0002	4230	3265 4240 4241 4242 4243 4244 4245 4246 4248 4250										
IIVBYT	001	4E62	4262	3132* 3136 3265 3478										
IIVKNS	001	0004	4228	3478 4240 4242 4243 4244 4246 4248										
IIVLD	001	4831	3143	3137										
IIVLNI	001	4A81	3577	3519 3532 3557 3566 3578										
IIVLNN	001	4A23	3516	3517										
IIVLNO	001	4A23	3515	3508										

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
IIVLNP	001	4A37	3528	3529
IIVSCH	001	49C1	3437	3431
IIVSTN	001	0001	4232	4240 4241 4242 4243 4244 4245 4246 4248 4249 4250
IIVTBL	001	4E52	4239	3130 4238
IIVTNT	002	4E32	4169	3324* 3402
IIWAIT	001	0080	4185	
IIWAT1	001	48C5	3237	3232
IIWFLG	001	0007	4198	3241*
IIWORK	002	4E4F	4220	3560* 3563* 3565
IIWTO	001	0010	4181	4211
IIWTOR	001	0020	4182	3669
IIYTC	004	4C81	3925	3914
IIZERO	001	0000	4173	3136 3240* 3241
II19	002	4E51	4221	3563
INTNSP	001	0002	0172	
INTPNO	001	0004	0171	
ISCNPT	003	4DE4	4115	
ISMVPS	001	4DCC	4106	4100
ISNDQI	004	4DB3	4090	4084
ISPOST	001	4DF0	4125	4109 4111 4114
ISREGS	001	4E16	4155	4087 4118 4144
ISREQ	001	4D91	4074	
ISREQ1	001	4DBD	4096	4095
ISWAIT	003	4E0B	4146	4149
ISWTOP	003	4DBA	4093	4080 4088
IS0010	001	4D89	4062	4058
KNPL	001	476C	0268	0271 2803
KNTUB	001	4745	0267	0268 2466
LCB\$LO	001	005E	1995	1996
LCBABT	001	0008	1987	
LCBACT	001	0020	1985	
LCBADJ	001	0058	1992	1993
LCBADL	001	007E	2118	2119
LCBADN	001	0088	2119	2128
LCBATA	001	0069	2005	2010
LCBATC	001	007B	2061	2063
LCBATL	001	005A	1993	1994
LCBATO	001	0010	2031	
LCBATR	001	0070	2037	2054
LCBAT1	001	0055	1973	1982 3616
LCBAT2	001	0056	1982	1992
LCBAT3	001	006F	2027	
LCBBFL	001	0072	2054	2055
LCBBLN	001	0089	2128	
LCBBND	001	0062	1997	1998
LCBBYP	001	0008	2032	
LCBCCP	001	0065	2002	2003
LCBCHN	001	0068	2004	2005
LCBCRI	001	0080	1974	
LCBDEQ	001	0004	1978	
LCBDFB	001	0001	2008	
LCBDFE	001	0002	2007	
LCBDTR	001	006B	2011	2015
LCBELC	001	006A	2010	2011
LCBENB	001	0020	2030	
LCBEOT	001	0002	1979	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
LCBERP	001	0040	2109	
LCBGMN	001	0020	2042	
LCBIBA	001	0078	2058	2059
LCBIBL	001	0076	2056	2058
LCBID#	001	0050	1967	1968
LCBIGN	001	0080	2006	
LCBINT	001	0010	1976	
LCBITB	001	0080	2028	
LCBKLC	001	0064	1998	
LCBLCE	001	006C	2015	2017 2019
LCBLID	001	006D	2019	2020
LCBLLE	001	006E	2020	2025
LCBMIL	001	0081	2124	2126
LCBMLN	001	007E	2072	
LCBMR@	001	0083	2126	
LCBMRL	001	007F	2123	2124
LCBMVD	001	0080	2108	
LCBNIT	001	0080	2039	
LCBNO#	001	004F	1966	
LCBNTQ	001	0008	1977	3616
LCBNW#	001	007C	2063	2067 2107 4009*
LCBOLR	001	0040	2041	
LCBOLT	001	006F	2025	2027 2037
LCBOPC	001	007D	2107	2118 2123 2132
LCBOPE	001	006C	2017	
LCBOWN	001	005C	1994	1995
LCBPL@	001	0052	1968	1969
LCBPLQ	001	0066	2003	2004
LCBPOL	001	004D	1964	1965
LCBPOR	001	0001	2035	
LCBPRI	001	0040	1975	
LCBPUT	001	0002	1989	
LCBRCI	001	0001	1990	
LCBREP	001	0002	2034	
LCBRFT	001	0010	1986	
LCBRS3	001	0074	2055	2056
LCBRVI	001	0020	2110	
LCBSCA	001	004C	1963	1964
LCBSEC	001	0004	1988	
LCBSEL	001	004F	1965	1966 1967
LCBSET	001	0040	1984	
LCBSIN	001	0001	1980	
LCBSRT	001	0060	1996	1997
LCBSTP	001	0010	2043	
LCBSTS	001	0004	2033	
LCBSWL	001	0008	2044	
LCBSWN	001	008D	2134	
LCBTBK	001	0002	2049	
LCBTCB	001	007A	2059	2061
LCBTEL	001	007E	2132	2133
LCBTIM	001	0001	2052	
LCBTL@	001	008C	2133	2134
LCBTRC	001	0080	1983	
LCBTSP	001	0040	2029	
LCBWRK	001	0054	1969	1973
LCBWTC	001	007D	2067	2072

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LCB1PL	001	0004	2046	
LCPPMR	001	0040	0051	
LO	001	0002	0080	3388 4201 4203
LSTSIZ	001	0016	4343	2654
LVBIAR	001	00A0	0055	
LVCJAR	001	00C0	0056	
LVIIAR	001	0080	0053	
LVMJAR	001	0090	0054	
MCTIN	001	00F0	4174	
MCTOUT	001	000F	4175	
MLBID	001	0004	2095	
MLCORR	001	0002	2102	
MLDISC	001	0080	2092	
MLENTR	001	0002	2096	
MLNWTC	001	0000	2068	
MLPTTC	001	0001	2101	
MLWBYC	001	0010	2098	
MLWBYP	001	0008	2097	
ML2741	001	0003	2075	
ML2970	001	0001	2069	
ML5930	001	0002	2070	
MOVE	006	4D5B	4038	4034*
MVLCCP	001	0000	2184	2185
MVLFRA	001	0005	2187	2188
MVLFRL	001	0007	2188	2189
MVLTCB	001	000A	2196	
MVLTOA	001	0003	2186	2187
MVLTOL	001	0001	2185	2186
MVLTYP	001	0008	2189	2196
NC@NEW	001	0009	1038	1040
NCAEND	001	0065	1176	
NCAFML	001	000D	1061	1062
NCC	001	0000	1033	1034
NCCCP	001	0043	1225	
NCCECB	001	0048	1228	
NCCMTQ	001	002B	1115	1117
NCCNFG	001	0049	1161	1162
NCCONF	001	002F	1118	1130
NCDATE	001	001B	1070	1071
NCDENT	001	0041	1224	
NCDSKQ	001	0021	1110	1111
NCDSK5	001	0023	1111	1112
NCDSP1	001	000A	1040	1047
NCDSP2	001	000B	1047	1056
NCENTR	001	0004	1214	
NCETQ@	001	0029	1114	1115
NCEXTR	001	0034	1133	1134
NCHIMG	001	0700	1229	
NCL2PR	001	00C0	1233	
NCMPLC	001	0063	1174	1175
NCMPSZ	001	0062	1173	1174
NCMSVA	001	001A	1216	
NCMVT1	001	0037	1156	1157
NCMVT2	001	003B	1157	1158
NCMVT3	001	003F	1158	1159
NCMVT4	001	0043	1159	1160

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES											
NCOLIB	001	0015	1069	1070											
NCPCHK	001	0100	1231												
NCPENT	001	003F	1223												
NCPFKT	001	0061	1172	1173											
NCPL1	001	0001	1034	1035											
NCPL2	001	0003	1035	1036											
NCPRTB	001	0048	1160	1161											
NCRCSS	001	002E	1117	1118											
NCRQE	001	0033	1132	1133											
NCSBUF	001	077C	1230												
NCSCH	001	001F	1105	1110											
NCSCH1	001	001C	1071	1086											
NCSCH3	001	0030	1130	1131											
NCSCH4	001	0031	1131	1132											
NCSGEN	001	000C	1056	1061											
NCSIPT	001	005B	1168	1169											
NCSLOG	001	0010	1062	1067											
NCSMV1	001	001D	1086	1096											
NCSMV2	001	001E	1096	1105											
NCSMV3	001	0035	1134	1145											
NCSMV4	001	0036	1145	1156											
NCSPCH	001	005D	1170	1171											
NCSPRT	001	005C	1169	1170											
NCSPVN	001	005F	1171	1172											
NCSVCE	001	0036	1221												
NCSV CJ	001	0032	1220												
NCSWRK	001	0012	1067	1068											
NCSYS@	001	0011	1215												
NCSYSQ	001	0013	1068	1069											
NCTA@	001	0800	1232												
NCTALL	001	0010	1044												
NCTAPQ	001	0025	1112	1113											
NCTCB	001	0005	1036	1037											
NCTCB@	001	002E	1218	3274	3350	3386	3626	3660	3724	3747	3754	3832	3849	3889	3903
				3912	3946	3966	3975	4042	4158						
NCTCCP	001	0020	1043												
NCTERM	001	0031	1219												
NCTMRQ	001	0065	1175	1176											
NCTRAC	001	002A	1217												
NCTRAP	001	003B	1222												
NCTRCA	001	0080	1041												
NTRCS	001	0040	1042												
NTRDK	001	0008	1045												
NCURQ	001	0027	1113	1114											
NCUTL1	001	005A	1162	1168											
NCXTAB	001	0007	1037	1038											
NCXTB@	001	0045	1226												
NCXTE@	001	0047	1227												
NEQ	001	0006	4203												
NHIGH	001	0003	4201	3490											
NLOW	001	0005	4202	3548	3598										
NOBIT	001	0000	0025	3289	3312	3351	3804	3890	4012	4059	4115	4133			
NONE	001	0000	0075	3388											
NOOP	001	0080	0060												
NOP	001	0007	0059												
NPBEG	001	0071	1018	1019											

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
NPBEGL	001	0076	1020	1021
NPCYL	001	007A	1022	1023
NPDTF@	001	006E	1017	1018
NPEND	001	0074	1019	1020
NPEOJ	001	006B	1000	1009
NPEOJ@	001	002A	1008	
NPHALT	001	0052	0985	0996
NPJOB	001	005A	0996	0997 3916*
NPLPSZ	001	0050	0983	0984
NPNAME	001	0068	0998	0999
NPOLIB	001	007C	1023	1024
NPORLF	001	007E	1024	1025
NPPRTZ	001	004F	0982	0983
NPRLF	001	0078	1021	1022
NPRPSZ	001	0051	0984	0985
NPSPCM	001	006A	0999	1000
NPSPOL	001	006C	1009	1017
NPSTEP	001	0062	0997	0998
NPTXT	001	0080	1025	
N2G0	001	0015	4195	
OP\$SYS	001	0080	1512	3507 4077 4143
OPACI	001	0004	1551	1552 1553 3170
OPACQ	001	0009	1557	
OPANW	001	0044	1552	
OPAQG	001	0069	1559	3134 3151
OPBLK	001	0020	1536	3530
OPBNOP	001	0010	1624	
OPCMDT	001	0029	1558	
OPCOPY	001	0040	1538	
OPDISC	001	0020	1514	3507 4107
OPDLY	001	0001	1524	3162
OPDMY	001	003D	1564	
OPEATT	001	470D	0424	0425
OPEAU	001	0050	1539	
OPEOL	001	0001	1521	
OPGET	001	0001	1546	1549 1550 1554 1557 1558 1559 1564 3491 3579 3667 3692 3711 4098 4117
OPGETM	001	0080	1619	
OPGETQ	001	0040	1621	
OPGTA	001	0008	1556	3199
OPINV	001	0005	1554	3608 4078 4085
OPJRSH	001	0080	1565	4079 4097
OPKPL	001	0010	1532	
OPLINE	001	0010	1535	1550
OPLIST	001	0008	1516	
OPLSNS	001	0040	1632	
OPMSG	001	0030	1537	1563 1564
OPNOW	001	0004	1544	1554 1555 1564 3561
OPNPST	001	0020	1623	
OPOLT	001	0040	1513	3507
OPOPTN	001	0010	1531	1553
OPORDR	001	00F0	1541	
OPPCR	001	003A	1563	
OPPNW	001	0006	1555	
OPPRT	001	0010	1515	
OPPTG	001	0003	1549	

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
OPPURG	001	0013	1550	
OPPUT	001	0002	1545	1549 1550 1555 1560 1561 1562 1563 3479 3488 3518 3714 4057 4086 4108 4116
OPREL	001	000A	1560	
OPREQR	001	0080	1510	1512
OPREFSH	001	0080	1631	
OPRTC	001	004A	1561	
OPRUF	001	0070	1540	3479
OPRVI	001	0010	1534	
OPSATT	001	470B	0423	0424
OPSEG#	001	470E	0425	
OPSHQ	001	0000	1548	3158
OPSOL	001	0002	1518	
OPSTA	001	0010	1533	3134
OPSTAT	001	0008	1543	1556 1557 1558 1559 1560 1561 1562 1563 1564 3335
OPSTCM	001	0010	1634	
OPSTD	001	0000	1530	
OPSTOP	001	0004	1517	3438 3447 4099 4107
OPTCHN	001	002A	1562	3148 3366
OPUSER	001	0020	1633	
OPWAIT	001	0014	1553	3154 3222
PAS	001	0000	0684	0685
PASBLK	001	0010	0750	
PASCCC	001	0022	0734	0737
PASCF@	001	0013	0710	0713
PASCFT	001	0064	0792	0795
PASCPE	001	0052	0771	0774
PASCPL	001	0047	0769	0771
PASCT@	001	000B	0704	0707
PASCTN	001	0011	0707	0710
PASDBE	001	0044	0761	0766
PASEFT	001	0005	0691	0695
PASEND	001	007B	0825	0826
PASFDL	001	0009	0701	0704
PASFDT	001	0007	0695	0698
PASFLG	001	0027	0745	0759
PASFR@	001	0015	0713	0716
PASFRD	001	0026	0740	0742 0745
PASFRT	001	0080	0747	
PASFTS	001	0008	0752	
PASHAP	001	005A	0783	0786
PASIAR	001	0056	0777	0780
PASID@	001	0026	0742	
PASIOB	001	0028	0759	0761
PASITT	001	0001	0685	0688
PASIX1	001	0054	0774	0777
PASJR@	001	0017	0716	0719
PASL	001	007C	0826	
PASLTH	001	006B	0804	0807
PASNFT	001	0003	0688	0691
PASOF@	001	0058	0780	0783
PASOH@	001	001D	0725	0728
PASOHE	001	0021	0731	0734
PASOHL	001	001F	0728	0731
PASPL@	001	0046	0766	0769
PASRAP	001	005C	0786	0789

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SYMBOL	LEN	VALUE	DEFN	REFERENCES											
PASRE@	001	001B	0722	0725											
PASRFN	001	0078	0822	0825											
PASRST	001	0020	0749												
PASRUF	001	0004	0754												
PASTAR	001	0070	0813	0817											
PASTC	001	0065	0795	0798											
PASTID	001	0008	0698	0701											
PASTOD	001	0024	0737	0740											
PASTTE	001	005E	0789	0792											
PASTTM	001	0069	0801	0804											
PASTTS	001	0067	0798	0801											
PASUDL	001	006D	0807	0810											
PASWCC	001	006E	0810	0813											
PASWKZ	001	0074	0820	0822											
PASWRK	001	0072	0817	0820											
PASXR@	001	0019	0719	0722											
PL\$MCT	001	000D	1495												
PL\$OPC	001	000D	1494	1495 1497 3804* 3877*											
PL\$OPM	001	000C	1492	1494											
PL\$RTC	001	000F	1497	1498 1502 3145 3145* 3725 3725* 3767 3767* 3909 3928 3928* 3976											
				3976* 4055 4055* 4090 4090*											
PL\$TNT	001	000F	1498	1500 3338*											
PLASID	001	0005	1484												
PLCHN	001	0001	1477	3144 3144* 4011 4012 4014 4019* 4020 4020* 4054 4054*											
PLECB	001	0010	1502	1504 1506 3726 3726* 3748 3947 3947* 3967 4133* 4145											
PLEFFL	001	0005	1483	3694 3694* 3697* 3699 3703* 3716 3716* 3890* 3891*											
PLENDS	001	000F	1500												
PLINL	001	0007	1486	1488 3583 3597 3631 3673 3675 3768 3768* 3977 3977*											
PLLEN	001	0013	1506												
PLLNG	001	0010	1504												
PLOPC	001	0003	1480	1482 3131 3134 3148 3151 3154 3158 3170 3171 3199 3222 3335											
				3366 3460 3479 3488 3491 3518 3530 3561 3579 3608 3667 3692											
				3711 3714 3929* 4057 4078 4079 4085* 4086 4097 4098 4108 4116*											
				4117											
PLOPM	001	0002	1479	1480 3162 3438 3447 3507 4077 4099 4107 4143											
PLOUTL	001	0005	1482	1483 1484 1486 3231 3489 3493 3522 3547 3560 3670 3677											
PLRECA	001	0009	1488	1490 3185 3238 3252 3334* 3678 3679 3698 3727 3728 3728* 3780*											
				3926 3931 3949 3949* 4059* 4112 4115*											
PLRTC	001	0001	1476	1477 1479 3165* 3398* 3618* 3886* 3982 3984*											
PLTIME	001	479E	0279	0280											
PLTUBA	001	000B	1490	1492 3198 3198* 3325* 3365 3628 3649 3771 3902 3930 3979 4003											
				4063 4093											
PMR	001	0030	0050												
PMRINS	001	0010	0085												
PMRINT	001	0001	0088												
PMRI12	001	0070	0082												
PMROP1	001	0020	0084												
PMROP2	001	0040	0083												
PMRPRT	001	0002	0087												
PMRPRV	001	0008	0086												
PMRQ	001	0030	4180	3122 3242 3344 3684 3690 3740 3752 3788 3843 3852 3859 3900											
				3960 3974 4032 4134 4159											
POLTIM	001	47C6	0491	0492											
POST	001	0040	0041												
PRUFOF	001	0020	0451												
PSR	001	0004	0047												

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
RBARR	001	0011	1202	1203
RBB	001	0000	1184	1185
RBCSN	001	0014	1203	1204
RBFLG1	001	0002	1186	1189
RBFLG2	001	0003	1189	1196
RBIAR	001	0007	1197	1198
RBPMR	001	0009	1198	1199
RBPSR	001	000B	1199	1200
RBRBP	001	0001	1185	1186
RBRES	001	001C	1206	1207
RBRIB	001	0015	1204	1205
RBRSAV	001	0016	1205	1206
RBTCB	001	0005	1196	1197
RBWORK	001	001D	1207	
RBXR1	001	000F	1201	1202
RBXR2	001	000D	1200	1201
RCOK	001	0000	1644	
RCOKTC	001	000E	1645	
RCRABD	001	00F4	1687	
RCRABN	001	00FB	1680	
RCRADC	001	00F3	1688	
RCRATO	001	00F9	1682	
RCRDCK	001	00FF	1676	
RCRIDR	001	00E3	1701	
RCRIID	001	00F5	1686	
RCRLST	001	00FD	1678	
RCRNAK	001	00F2	1689	
RCRNOC	001	00F6	1685	
RCRPBS	001	00FC	1679	
RCRTRM	001	0040	1672	
RCRTRN	001	00FE	1677	
RCRTTO	001	00F8	1683	
RCRWTO	001	00F7	1684	
RCRXRA	001	00FA	1681	
RCR2CD	001	00E8	1696	
RCR2DU	001	00EC	1693	
RCR2ED	001	00EA	1694	
RCR2PB	001	00E5	1699	
RCR2PC	001	00E4	1700	
RCR2PD	001	00E7	1697	
RCR2PO	001	00E6	1698	
RCR2TE	001	00E9	1695	
RCR5DE	001	00D2	1712	
RCR5DF	001	00D5	1709	
RCR5IC	001	00D7	1707	
RCR5OF	001	00D6	1708	
RCR5RF	001	00D4	1710	
RCR5SR	001	00D8	1706	
RCR5UH	001	00D3	1711	
RCR7BE	001	00C6	1722	
RCR7BT	001	00C5	1723	
RCR7DC	001	00CC	1716	
RCR7DO	001	00C7	1721	
RCR7LB	001	00CB	1717	
RCR7LE	001	00C4	1724	
RCR7NA	001	00CD	1715	

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
RCR7NF	001	00C3	1725	
RCR7NR	001	00BF	1729	
RCR7RE	001	00C1	1727	
RCR7RP	001	00C9	1719	
RCR7SC	001	00C8	1720	
RCR7SE	001	00C2	1726	
RCR7TE	001	00CE	1714	
RCR7WE	001	00C0	1728	
RCR7WL	001	00CA	1718	
RCR7WP	001	00BE	1730	
RCR7ZR	001	0100	1713	1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730
RCXCLR	001	0007	1657	
RCXDPD	001	0005	1655	3618
RCXDTR	001	0001	1649	
RCXEDT	001	0003	1651	
RCXEOT	001	0002	1650	
RCXNAC	001	0010	1665	
RCXNAQ	001	000B	1661	
RCXNAV	001	0008	1658	
RCXNIQ	001	007E	1667	
RCXNTC	001	000C	1662	
RCXNTP	001	000D	1663	
RCXNTR	001	000F	1664	
RCXOFF	001	0009	1659	3398
RCXRVI	001	0006	1656	
RCXSHD	001	0004	1654	3886
RCXSHP	001	0011	1666	3165
RCXSPF	001	007F	1668	
RCXSPI	001	000A	1660	
SAVLOP	001	47A2	0281	0282
SHDECB	001	477F	0271	0272
SHDSAV	001	478F	0273	0276
SKIP	001	0020	0042	
SMESG	001	00E2	4170	4113
SVLOOP	001	47C7	0492	0493
SV1TAX	001	4621	0133	0134
SV2TAX	001	4623	0134	0137
TA@PGM	001	4E63	4266	2400
TANDNE	001	0011	4234	3480
TAONE	001	4000	0108	0109
TASAT1	001	0000	1743	1761
TASAT2	001	0001	1761	1782
TASAUT	001	0010	1751	
TASBKF	001	0004	1784	1786
TASBLK	001	0040	1765	
TASCAS	001	0040	1747	
TASCCP	001	0000	1739	1743 1786
TASCNC	001	0020	1749	
TASDFF	001	0001	1756	3555 3629
TASINX	001	0008	1753	
TASITB	001	0010	1769	3546 3596
TASLN	001	0005	1786	
TASMSG	001	0020	1767	
TASPAN	001	0002	1775	
TASRCL	001	0003	1782	1784

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES											
TASREC	001	0080	1763												
TASRSV	001	0006	1755												
TASTRN	001	0080	1745												
TASTSP	001	0008	1771												
TASVfy	001	0004	1773												
TASVRL	001	0001	1777												
TATWO	001	4300	0109												
TCB@AS	001	0064	0564	0565											
TCBACW	001	0001	0588	3872											
TCBALC	001	0020	0577												
TCBARR	001	0019	0934	0938											
TCBATR	001	00E0	0598	0600											
TCBATS	001	010D	0628	0629											
TCBATT	001	004E	0970	0972	0977	0978	0979	0982							
TCBB	001	0000	0884	0885											
TCBCAL	001	0000	0544												
TCBCHN	001	0040	0613	3913											
TCBCM	001	0008	0579												
TCBCMP	001	002B	0562	3351	3356										
TCBCSN	001	001C	0938	0939											
TCBDMG	001	00AE	0574	3275	3283	3833	3834*								
TCBDS1	001	0006	0916	0923											
TCBDS2	001	0007	0923	0926											
TCBECB	001	00DB	0595	0596	3850										
TCBEJC	001	002B	0947	0959											
TCBEJE	001	002A	0946	0947	1008										
TCBEJS	001	002C	0959	0969											
TCBEMG	001	0002	0581												
TCBEPL	001	010E	0629	0630											
TCBFBM	001	00E3	0608	0609	0651										
TCBFDT	001	0066	0566	0567											
TCBFG1	001	0004	0905	0913											
TCBFG2	001	0005	0913	0916											
TCBFSA	001	0116	0631												
TCBHAV	001	0047	0972												
TCBIAR	001	000F	0929	0930											
TCBID	001	0003	0887	0905											
TCBIIC	001	00DE	0596	0597	3627*	3891	3904*								
TCBINQ	001	0068	0567												
TCBIR	001	00A7	0569	0570											
TCBKRQ	001	0040	0576	3283											
TCBLOW	001	0020	0614												
TCBMAP	001	0026	0944	0945											
TCBMAX	001	00DF	0597	0598	0649										
TCBMFU	001	0004	0605												
TCBMTS	001	0004	0580	3275											
TCBNCL	001	0004	0551												
TCBNEP	001	0010	0578												
TCBNXT	001	0001	0885	0886											
TCBOFG	001	00E5	0611	0621	0652	3913									
TCBPAS	001	0065	0565	0566											
TCBPCA	001	004C	0978												
TCBPCB	001	00E7	0621	0622											
TCBPCS	001	004E	0979												
TCBPL	001	00C4	0590	0591	0623	0638	3661	3725*	3726	3726*	3728	3728*	3729	3748	3755
				3927	3947	3947*	3948	3967	3976	3977	4188	4189	4190		

\$CC4#1

CROSS REFERENCE

SCP GENERATOR 08/08/10 PAGE 138

SYMBOL	LEN	VALUE	DEFN	REFERENCES
TCBPLE	001	00D6	0591	0592
TCBPMR	001	0011	0930	0931
TCBPR	001	00A9	0570	0571
TCBPRI	001	0002	0886	0887
TCBPRS	001	0080	0601	
TCBPRT	001	0010	0603	
TCBPSR	001	0013	0931	0932
TCBRBF	001	000B	0927	0928
TCBRBP	001	0009	0926	0927
TCBRIB	001	001D	0939	0940
TCBROC	001	0112	0630	0631
TCBRSV	001	001E	0940	0941
TCBRS1	001	0024	0941	0944
TCBRS3	001	004A	0977	
TCBRTC	001	002E	0969	0970
TCBRUF	001	0080	0575	
TCBRV	001	00EB	0623	
TCBSAD	001	00C4	0638	0639
TCBSAS	001	00C8	0640	0641
TCBSAT	001	00C6	0639	0640
TCBSAV	001	00CA	0641	
TCBSHQ	001	0001	0582	3833 3834
TCBSRT	001	0080	0612	
TCBSUS	001	0040	0558	
TCBTCB	001	000D	0928	0929
TCBTIM	001	0028	0945	0946
TCBTRC	001	0080	0555	
TCBTRM	001	0020	0559	
TCBTUB	001	00DA	0594	0595 3289 3290
TCBURA	001	00E1	0600	0608 0650
TCBUSE	001	00E4	0609	0611
TCBUSR	001	0080	0550	
TCBWID	001	00FF	0547	
TCBWK	001	00D8	0593	3727* 3926*
TCBXQ	001	00D8	0592	0593 0594
TCBXR@	001	00E9	0622	
TCBXR1	001	0017	0933	0934
TCBXR2	001	0015	0932	0933
TCBX1	001	00AD	0572	0574
TCBX2	001	00AB	0571	0572
TCB142	001	0008	0604	
TCB501	001	0020	0602	
TCB741	001	0040	0606	
TCC#01	001	0001	1431	
TCC#02	001	0002	1432	
TCC#03	001	0003	1433	
TCC#04	001	0004	1434	
TCC#05	001	0005	1435	
TCC#06	001	0006	1436	
TCC#07	001	0007	1437	
TCC#08	001	0008	1438	
TCC#09	001	0009	1439	
TCC#10	001	0010	1440	
TCC#11	001	0011	1441	
TCC#12	001	0012	1442	
TCC#13	001	0013	1443	

\$CC4#1

CROSS REFERENCE

SYMBOL

LEN

VALUE

DEFN

REFERENCES

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TCC#14 001 0014 1444
TCC#15 001 0015 1445
TCC#16 001 0016 1446
TCC#17 001 0017 1447
TCC#18 001 0018 1448
TCC#19 001 0019 1449
TCC#20 001 0020 1450
TCC#21 001 0021 1451
TCC#22 001 0022 1452
TCC#23 001 0023 1453
TCC#24 001 0024 1454
TCC#25 001 0025 1455
TCC#26 001 0026 1456
TCC#27 001 0027 1457
TCCAAS 001 0023 1301
TCCABT 001 0073 1415
TCCADR 001 0053 1406
TCCADT 001 0024 1305
TCCAkn 001 0022 1300
TCCALC 001 008B 1465
TCCAQg 001 003C 1381
TCCAQN 001 003E 1386
TCCAQP 001 003D 1384
TCCAST 001 0021 1299
TCCATS 001 0025 1307
TCCCCN 001 002A 1326
TCCCCP 001 002B 1327
TCCCLS 001 0071 1413
TCCDCN 001 003A 1377
TCCDCP 001 003B 1379
TCCDER 001 0084 1462
TCCEOT 001 002D 1333
TCCFSA 001 0083 1460
TCCHAR 001 002F 1342
TCCHLT 001 007F 1417
TCCIAC 001 0013 1267
TCCIAI 001 001D 1283
TCCIAN 001 0012 1265
TCCIBL 001 0008 1251
TCCICA 001 0016 1274
TCCICN 001 0017 1275
TCCICT 001 0018 1276
TCCIEA 001 0019 1277
TCCIGB 001 0015 1272
TCCIIL 001 000E 1259
TCCIIO 001 0011 1263
TCCIKL 001 001E 1286
TCCIMO 001 0010 1261
TCCINV 001 002C 1331
TCCIOC 001 000C 1256
TCCIOK 001 0002 1244
TCCIOL 001 000D 1258
TCCIOP 001 0001 1243
TCCIPA 001 001A 1278
TCCIPM 001 001B 1279
TCCISN 001 0009 1252

3270

3588

3443

3500

3424

3468

3484

3538

3141 3512

\$CC4#1

CROSS REFERENCE

SCP GENERATOR 08/08/10 PAGE 140

SYMBOL	LEN	VALUE	DEFN	REFERENCES
TCCITA	001	000B	1254	
TCCITB	001	001C	1280	3552 3602
TCCIVA	001	002E	1338	
TCCLDT	001	0070	1412	
TCCLRG	001	001F	1288	3570
TCCLRP	001	0020	1293	
TCCMBL	001	0006	1249	3280
TCCNAN	001	0005	1247	3408
TCCNAP	001	0004	1246	3393
TCCNAT	001	000A	1253	3317
TCCNDF	001	0035	1367	
TCCNEJ	001	0031	1350	
TCCNIO	001	0014	1270	3452
TCCNMM	001	0048	1399	
TCCNNF	001	0003	1245	3202
TCCNRP	001	0037	1371	
TCCOPC	001	0052	1405	
TCCOPN	001	0082	1427	
TCCPNC	001	0038	1373	
TCCPRM	001	0072	1414	
TCCPRT	001	0050	1403	
TCCPRV	001	0054	1407	
TCCQCD	001	0051	1404	
TCCRBL	001	0007	1250	3303
TCCRCB	001	0029	1320	
TCCRIB	001	0080	1421	
TCCRIS	001	0030	1346	
TCCROW	001	0027	1312	
TCCRPL	001	0028	1317	
TCCRST	001	0026	1311	
TCCRTC	001	0039	1375	
TCCSFU	001	0041	1396	
TCCSQB	001	0032	1352	
TCCST1	001	0040	1391	
TCCTCH	001	003F	1388	
TCCTPB	001	000F	1260	3636
TCCWAT	001	0036	1369	3235
TCC33	001	0033	1358	
TCC34	001	0034	1361	
TDFEPC	001	0045	2083	
TDFERP	001	0050	2086	
TDFFL2	001	0039	2078	
TIAC	001	0005	0034	0035
TIBC	001	0001	0030	0031
TICR	001	0008	0037	0038
TICS	001	0007	0036	0037
TIFE	001	0000	0029	0030
TINS	001	0009	0038	
TIRC	001	0002	0031	0032
TISS	001	0006	0035	0036
TITR	001	0003	0032	0033
TIWRK1	001	4709	0413	0414
TIWRK2	001	470B	0414	0415
TIWRK3	001	470D	0415	0416
TIWRK4	001	470F	0416	0417
TIWRK5	001	4711	0417	0418

\$CC4#1

CROSS REFERENCE

SCP GENERATOR 08/08/10 PAGE 142

SYMBOL	LEN	VALUE	DEFN	REFERENCES
TUBCMA	001	001C	1905	1908
TUBCMD	001	0040	1839	3430 3990
TUBCMN	001	0008	1822	
TUBCNC	001	0020	1857	
TUBCON	001	0000	1921	
TUBCPU	001	0008	1929	4110
TUBDCH	001	0026	1938	
TUBDLN	001	002E	1894	
TUBDM@	001	0007	1798	1800
TUBDME	001	0040	1804	
TUBDMF	001	0020	1805	
TUBDPL	001	001B	1893	1894
TUBDPY	001	0040	1829	
TUBDTA	001	0080	1838	3430 3989 4082
TUBDTF	001	0016	1886	
TUBEMS	001	0008	1874	
TUBER@	001	0005	1797	1798
TUBERP	001	0010	1858	
TUBFSB	001	001A	1888	1898
TUBID	001	0001	1794	1796
TUBIIQ	001	0008	1847	3905
TUBIIS	001	0010	1846	3432 3713 3905 4104
TUBIMI	001	0020	1845	3418 3989
TUBINP	001	0001	1825	
TUBINQ	001	0010	1880	1882 3910
TUBKNM	001	0080	1828	3524 3650 4004
TUBLCB	001	0016	1885	1886 1887 3614 4008
TUBLN	001	0027	1940	1948
TUBLNC	001	003A	1948	
TUBLNE	001	0080	1818	3556 3595
TUBLOP	001	0080	1900	
TUBMCT	001	0004	1823	
TUBMLT	001	0001	1922	
TUBNID	001	0010	1821	
TUBNPT	001	000B	1932	
TUBOFF	001	0001	1835	
TUBOLT	001	0004	1849	
TUBONL	001	0020	1830	3396
TUBOTC	001	001B	1898	1905
TUBOUT	001	0002	1824	
TUBOWN	001	0001	1851	3531 3613
TUBPCB	001	0004	1875	
TUBPCS	001	0024	1935	1936 1937
TUBPHY	001	0023	1920	1935 4110
TUBPIL	001	0026	1937	1938 1940 1944 3559*
TUBPL	001	0027	1944	4090* 4091
TUBPL@	001	0003	1796	1797
TUBPNM	001	001A	1892	1893 3934
TUBPRG	001	0002	1810	
TUBPST	001	0014	1884	
TUBQUE	001	0008	1832	
TUBRCL	001	0021	1912	1913 1915 3547 3597
TUBREQ	001	0004	1833	3291
TUBRTY	001	0080	1855	
TUBRUF	001	0004	1809	
TUBSCS	001	0009	1802	1813

\$CC4#1

CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 143

SYMBOL	LEN	VALUE	DEFN	REFERENCES	SCP	GENERATOR	08/08/10	PAGE	143
TUBSGN	001	0010	1831						
TUBSID	001	0008	1800	1802					
TUBSPF	001	0040	1856	3772					
TUBSPP	001	0002	1865						
TUBSSP	001	0008	1808						
TUBSTP	001	00FF	1953						
TUBSWA	001	0010	1806						
TUBSWC	001	0002	1834						
TUBSWL	001	0001	1867	3772					
TUBTAS	001	001D	1908	1910 1917					
TUBTA1	001	001E	1910	1911 3555 3629					
TUBTA2	001	001F	1911	1912 3546 3596					
TUBTCB	001	0012	1882	1883 3386					
TUBTMA	001	0009	1813	1817					
TUBTNR	001	000F	1902						
TUBTNT	001	0018	1887	1888 3296 3402 3915 3938					
TUBTRM	001	0040	1871						
TUBTUB	001	0014	1883	1884 1885 1892 3987*					
TUBTYP	001	0020	1820						
TUBVCS	001	0021	1913						
TUBVFP	001	0004	1864						
TUBVHR	001	0025	1936						
TUBWAT	001	0001	1877						
TUBYUK	001	0020	1872						
TUB105	001	0002	1923						
TUB374	001	0009	1930						
TUB375	001	0007	1928						
TUB5M1	001	0005	1926						
TUB5M2	001	0006	1927						
TUB7M1	001	0003	1924						
TUB7M2	001	0004	1925						
UNCON	001	00FF	0061						
USECW	001	4694	0244	0245					
WAIT	001	0080	0040						
WAITIM	001	47CA	0493	0494					
WATIME	001	47A1	0280	0281					
X\$FFFF	001	4639	0180	0183 3700					
X\$0000	001	4632	0176	0177 3522 3583					
X\$0001	001	4633	0177	0178 3627 3703 3904 3982 4009 4033 4035					
X\$0002	001	4635	0178	0179					
X\$0004	001	4637	0179	0180					
XR1	001	0001	0045	3130* 3132 3184* 3187 3191 3207 3207* 3253 3274* 3275 3283 3285*					
				3289 3290 3290* 3291 3296 3296* 3297 3312 3324 3325 3338 3350*					
				3351 3356 3365* 3376 3377 3377* 3386 3387 3396 3402 3418 3430					
				3432 3463 3524 3531 3546 3547 3555 3556 3559 3595 3596 3597					
				3613 3614 3614* 3615 3616 3626* 3627 3628* 3629 3649* 3650 3663*					
				3667 3670 3673 3675 3677 3678 3679 3691 3692 3694 3694 3697					
				3698 3699 3703 3705 3713 3724* 3725 3726 3726 3727 3728 3728					
				3729 3747* 3748 3748* 3766* 3767 3768 3769 3771* 3772 3832* 3833					
				3834 3844* 3848 3849* 3850 3850* 3872 3873 3889* 3891 3903* 3904					
				3908* 3909 3909* 3910 3912* 3913 3916 3926 3927 3927* 3928 3929					
				3930 3931 3931* 3934 3939 3966* 3967 3967* 3975* 3976 3977 3979*					
				3980 3987 3988 3989 3990 4003* 4004 4005 4008 4008* 4009 4011*					
				4012 4014 4014* 4019 4021* 4043 4063* 4082 4090 4091 4093* 4104					
				4110 4112* 4113 4145* 4148 4158* 4160 4161 4162 4162*					
XR2	001	0002	0046	3123 3131 3134 3144 3144 3145 3145 3148 3151 3154 3158 3162					

\$CC4#1

CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 144

				3165	3170	3171	3185	3185*	3191	3197*	3198	3198	3199	3218*	3222
				3231	3238	3238*	3239	3239*	3240	3241	3252	3252*	3297	3320*	3325
				3334	3335	3338	3365	3366	3398	3438	3447	3460	3479	3488	3489
				3491	3493	3507	3518	3522	3530	3547	3560	3561	3579	3583	3597
				3608	3618	3628	3631	3649	3660*	3661	3661*	3662	3669	3672	3673
				3675	3677	3678	3679	3695	3697	3698*	3699*	3700*	3701	3705*	3711
				3714	3716	3716	3725	3727	3729*	3738*	3753	3754*	3755	3755*	3767
				3768	3769*	3771	3780	3804	3844	3848*	3860	3877	3886	3890	3891
				3901	3902	3902*	3905	3910	3915	3915*	3916	3925*	3926	3928	3930*
				3932	3934	3938	3938*	3939	3942*	3946*	3947	3947	3948	3948*	3949
				3949	3954*	3976	3977	3979	3982	3984	4003	4019	4020	4020	4041
				4042*	4043	4044	4045	4053*	4054	4054	4055	4055	4057	4059	4063
				4077	4078	4079	4085	4086	4090	4091*	4093	4097	4098	4099	4107
				4108	4112	4115	4116	4117	4133	4143	4145	4161*			
XSNTHT	001	0014	2232	2818											
XSNT1	001	000F	2227	2657											
XSNT2	001	0010	2228	2660											
XSNT3	001	0011	2229	2703											

TOTAL STATEMENTS IN ERROR IN THIS GENERATION-- 0

OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 13
NAME-\$CC4#1,PACK-R2R2R2,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000

OL105 I THE CODE LENGTH OF \$CC4#1 IS 2213 DECIMAL.

1 CT EJ I
PROGRAM END

\$CGDRV01

START ADDRESS	CATEGORY	NAME AND ENTRY	CODE HEXADECIMAL	LENGTH DECIMAL	REFERENCED BY
4600	0	\$CC4#1	08A5	2213	
4600		\$CCCOM			\$CC4V1
480A		\$CC4II			\$CC4PI \$CC4V1
4937		IISTNT			\$CC4V1
495F		IIBTCB			\$CC4V1
4A23		IIVLNN			\$CC4V1
4A37		IIVLNP			\$CC4V1
4A40		IIIOL			\$CC4V1
4A81		IIVLNI			\$CC4V1
4AA6		IIINRT			\$CC4V1
4AC2		IINDPD			\$CC4V1
4AE1		IIIREQ			\$CC4V1
4B65		IIUPST			\$CC4V1
4BBB		IIREND			\$CC4V1
4BD5		IITEND			\$CC4V1
4CB1		IINDFF			\$CC4V1
4D14		IIQSUB			\$CC4V1
4D4C		\$CC4IS			\$CC4V1
4DBD		ISREQ1			\$CC4V1
4E52		IIVTBL			\$CC4V1
4EA5	0	\$CC4MS	029C	668	\$CC4#1 \$CC4V1
4EA5		\$CC4GM			\$CC4#1 \$CC4PI
4F93		\$CC4FM			\$CC4#1 \$CC4PI
5141	0	\$CC4MV	011F	287	\$CC4#1
5141		\$CC4MX			\$CC4V1 \$CC4#1 \$CC4PI
5260	0	\$CC4CP	0016	22	\$CC4V1 \$CC4#1
5276	0	\$CC4TI	0246	582	\$CC4V1 \$CC4#1
52E8		CC4TI1			\$CC4PI
5344		CC4TI2			\$CC4#1 \$CC4OC
53F8		\$CC4TM			\$CC4#1
5416		CC4TH			\$CC4MS \$CC4#1
54BC	0	\$CC4PI	02F2	754	\$CC4CP \$CC4OC \$CC4V1 \$CC4#1
54BC		\$CC4TA			\$CC4CP \$CC4OC \$CC4TI
54FC		\$CC4TX			\$CC4#1
55E7		\$CC4TR			\$CC4#1
562B		XSNT1			\$CC4TI \$CC4#1
564A		XSNT2			\$CC4#1
566A		XSNT3			\$CC4#1
5647		XSNTTI			\$CC4TI
55E1		XSNTHT			\$CC4#1
5649		XSNTCP			\$CC4TI
577B		\$CCINT			\$CC4#1
56B3		\$CC4IG			\$CC4#1
57AE	0	\$CC4OC	0012	18	\$CC4V1 \$CC4#1 \$CC4PI
57C0	0,100	\$CC4V1	0070	112	\$CC4#1
57C0		MAINT1			
57F2		ADDRS1			\$CC4#1

OL100 I THE TOTAL CORE USED BY \$CC4#1 IS 4656 DECIMAL.
OL107 I THE PARTITION SIZE REQUIRED TO EXECUTE THIS PROGRAM IS 08K.
OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 480A.
OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 19
NAME-\$CC4#1,PACK-F2F2F2,UNIT-F2,RETAIN-P,LIBRARY-O

1 CT EJ I
PROGRAM END

ŞOLINK01

XX	CALL	\$CC1VT,R1	*** EXPAND \$CC4VT MACROS	CCP00449
***	USE THE MACRO PROCESSOR TO EXPAND SOURCE CODE OF THE ADDRESS			CCP00211
***	VECTOR TABLE - \$CC4VT			CCP00212
*				CCP00213
XX	LOAD	\$MPXDV,R1		CCP00214
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,TRACKS-50,RETAIN-T,		CCP00215
XX		SHARE-NO		CCP00216
XX	COMPILE	UNIT-R1,SOURCE-\$CC1VT		CCP00217
XX	RUN			CCP00218

1 CT EJ I
PROGRAM END

\$MPXDV01

XX	CALL	\$CC1VS,R1	*** ASSEMBLECC\$CC4VT	CCP00450
***	USE THE SCP GENERATOR TO PROCESS THIS SOURCE CODE INTO A			CCP00231
***	RELOCATABLE MODULE - \$CC4VT			CCP00232
*				CCP00233
XX	LOAD	\$CGDRV,R1		CCP00234
XX	SWITCH	1XXXXXXX		CCP00235
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,RETAIN-S,		CCP00236
XX		SHARE-NO		CCP00237
XX	FILE	NAME-\$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,		CCP00238
XX		SHARE-NO		CCP00239
XX	FILE	NAME-\$WORK2,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,		CCP00240
XX		SHARE-NO		CCP00241
XX	RUN			CCP00242

\$CC4VT

EXTERNAL SYMBOL LIST

SYMBOL TYPE

SCP GENERATOR 08/08/10 PAGE 1

\$CC4VT	MODULE
\$CC4DF	EXTRN
\$CC4#2	EXTRN
\$CC4FR	EXTRN
ADDRS2	EXTRN
\$CC4IB	EXTRN
\$CC4BT	EXTRN
\$\$BSMS	EXTRN
\$CC4M1	EXTRN
\$\$BSAT	EXTRN
\$\$BSMA	EXTRN
\$\$BSMB	EXTRN
\$\$BSMC	EXTRN
\$\$BSMD	EXTRN
\$\$BSMF	EXTRN
\$\$BSLG	EXTRN
CMCLOZ	EXTRN
MSBSSA	EXTRN
\$CC4IM	EXTRN
\$\$MLRR	EXTRN
\$\$MLDI	EXTRN
\$\$MLIA	EXTRN
\$\$MLIB	EXTRN
\$\$MLIC	EXTRN
\$\$MLID	EXTRN
\$\$MLIF	EXTRN
\$\$MLIG	EXTRN
MLTOP1	EXTRN
MLTSP0	EXTRN
MLTIO1	EXTRN
\$\$MLTB	EXTRN
\$\$MLTC	EXTRN
\$\$MLTD	EXTRN
\$\$MLTF	EXTRN
\$\$MLTG	EXTRN
\$\$MLTH	EXTRN
\$\$MLTI	EXTRN
\$\$MLTL	EXTRN
\$\$MLTM	EXTRN
\$\$MLTO	EXTRN
\$\$MLTP	EXTRN
\$CC4V2	EXTRN

\$CC4VT ADDRESS -- VECTOR -- TABLE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	2
0000		2	\$CC4VT	START	0				CCP00222
		3	*	\$E000	#M-0,#B-1,DF-0,DE-0,MS-0				CCP00223
		4	*	\$E002	ML-00,MT-000,MF-0,MS-0				CCP00224
		5	*	\$E003	BL-0010,BF-00100100,BT-0100010000000000,INP-1,BIA-1,BY-0				CCP00225
		6	*	\$E005	AP-0,CP-0,TK-0,PP-0,CS-0				CCP00226
		7	*	\$E033	MD1-00000000,MD2-00000000,MD3-0000,BF-00100100				CCP00227

SCC4VT COMMUNICATIONS INITIALIZATION POINTERS

9+*****
 10+* COMMUNICATIONS POINTERS *
 11+*****

13+* THE FOLLOWING TABLE CONTAINS ADDRESSES WHICH MUST BE SET INTO
 14+* DTF'S DURING STARTUP. THE TABLE CONTAINS NON-ZERO VALUES IF:
 15+*
 16+* . DFF IS SUPPORTED

18+* . MLTA IS SUPPORTED

20+* . BSCA IS SUPPORTED WITH RESIDENT POLLING
 21+* . BSCA IS SUPPORTED WITH AUTO-RESPONSE

23+***** NOTE - DO NOT CHANGE ORDER OF THESE EXTRNS WITHOUT CHANGING *****
 24+***** MODULE SCC4V2. *****

0001	26+	EXTRN	SCC4DF(3)	DFF-YES
0002	27+	EXTRN	SCC4#2(3)	COMMUNICATIONS MANAGEMENT
0003	28+	EXTRN	SCC4FR(3)	TP REQUEST PARM LIST FREEMAIN
0004	29+	EXTRN	ADDRS2(3)	MAINTENANCE AREA TABLE ADDRESS
0005	30+	EXTRN	SCC4IB(3)	BSCA INTERRUPT HANDLER EXIT
0006	31+	EXTRN	SCC4BT(3)	BSCA
0007	32+	EXTRN	\$\$BSMS(3)	BSCA
0008	33+	EXTRN	SCC4M1(3)	BSCA - 3270 ONLY VERSION
0009	34+	EXTRN	\$\$BSAT(3)	TWO BSCA LINES
000A	35+	EXTRN	\$\$BSMA(3)	RESPOL-YES
000B	36+	EXTRN	\$\$BSMB(3)	RESPOL-YES
000C	37+	EXTRN	\$\$BSMC(3)	RESPOL-YES
000D	38+	EXTRN	\$\$BSMD(3)	AUTORS-YES
000E	39+	EXTRN	\$\$BSMF(3)	RESPOL-YES
000F	40+	EXTRN	\$\$BSLG(3)	RESPOL-YES
0010	41+	EXTRN	CMCLOZ(3)	ADDR FOR C/S OF CLOSE,OPEN
0011	42+	EXTRN	MSBSSA(3)	ADDR OF ENTRY POINT FOR TRACE
0012	43+	EXTRN	SCC4IM(3)	MLTA INTERRUPT HANDLER EXIT
0013	44+	EXTRN	\$\$MLRR(3)	MLTA-YES
0014	45+	EXTRN	\$\$MLDI(3)	MLTA-YES
0015	46+	EXTRN	\$\$MLIA(3)	MLTA-YES
0016	47+	EXTRN	\$\$MLIB(3)	CS-YES
0017	48+	EXTRN	\$\$MLIC(3)	CS-YES
0018	49+	EXTRN	\$\$MLID(3)	CHECKING TERMINALS
0019	50+	EXTRN	\$\$MLIF(3)	SW TERMINALS
001A	51+	EXTRN	\$\$MLIG(3)	CHECKING TERMINALS
001B	52+	EXTRN	MLTOP1(3)	MLTA OPEN
001C	53+	EXTRN	MLTSP0(3)	MLTA COMMON
001D	54+	EXTRN	MLTIO1(3)	MLTA IOCS
001E	55+	EXTRN	\$\$MLTB(3)	1050D
001F	56+	EXTRN	\$\$MLTC(3)	2740/2740S/2740M2S(B)
0020	57+	EXTRN	\$\$MLTD(3)	2740
0021	58+	EXTRN	\$\$MLTF(3)	2740D
0022	59+	EXTRN	\$\$MLTG(3)	2740C/SYS7C
0023	60+	EXTRN	\$\$MLTH(3)	2740DC/SYS7DC
0024	61+	EXTRN	\$\$MLTI(3)	2740DT
0025	62+	EXTRN	\$\$MLTL(3)	2740DTC
0026	63+	EXTRN	\$\$MLTM(3)	2740(M2)SC(B)/SYS7SC

\$CC4VT COMMUNICATIONS INITIALIZATION POINTERS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	4
		0027	64+	EXTRN	\$\$MLTO(3)	2741			
		0028	65+	EXTRN	\$\$MLTP(3)	2741D/CMSTD			
		0029	66+	EXTRN	\$CC4V2(3)	MAINTENANCE AREA MODULE			

\$CC4VT COMMUNICATIONS INITIALIZATION POINTERS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	5
0000	0000	0001	68+ 69+*	DC	XL2'00' BSCA ENTRY POINTS				NO DFF SUPPORT.
0002	0005	0003	71+	DC	AL2(\$CC4IB)				ADDRESS OF \$CC4IB IN LOAD MOD
0004	0000	0005	73+	DC	XL2'00'				IF NO AUTORS
0006	00000000	0009	74+	DC	XL4'00'				IF NO RESPOL
000A	0010	000B	76+ 77+*	DC	AL2(CMCLOZ)				ADDRESS OF WHERE STARTUP MUST PUT C/S FOR OPEN/CLOSE XIENTS
000C	0011	000D	79+	DC	AL2(MSBSSA)				ADDRESS OF BSCA TRACE EXTRN
000E	0003	000F	81+	DC	AL2(\$CC4FR)				
0010	0004	0011	83+	DC	AL2(ADDRS2)				ADDRESS OF PTF TABLE FOR #2
0012	0002	0013	84+	DC	AL2(\$CC4#2)				END ADDRESS OF DFF CODE
0014	00	0014	86+	DC	XL1'00'				*** TABLE STOPPER ***
		0000	88	END	\$CC4VT				CCP00228

\$CC4VT

CROSS REFERENCE

SYMBOL	LEN	VALUE	DEFN	REFERENCES	SCP GENERATOR	08/08/10	PAGE	6
\$\$BSAT	001	0009	0034					
\$\$BSLG	001	000F	0040					
\$\$BSMA	001	000A	0035					
\$\$BSMB	001	000B	0036					
\$\$BSMC	001	000C	0037					
\$\$BSMD	001	000D	0038					
\$\$BSMF	001	000E	0039					
\$\$BSMS	001	0007	0032					
\$\$MLDI	001	0014	0045					
\$\$MLIA	001	0015	0046					
\$\$MLIB	001	0016	0047					
\$\$MLIC	001	0017	0048					
\$\$MLID	001	0018	0049					
\$\$MLIF	001	0019	0050					
\$\$MLIG	001	001A	0051					
\$\$MLRR	001	0013	0044					
\$\$MLTB	001	001E	0055					
\$\$MLTC	001	001F	0056					
\$\$MLTD	001	0020	0057					
\$\$MLTF	001	0021	0058					
\$\$MLTG	001	0022	0059					
\$\$MLTH	001	0023	0060					
\$\$MLTI	001	0024	0061					
\$\$MLTL	001	0025	0062					
\$\$MLTM	001	0026	0063					
\$\$MLTO	001	0027	0064					
\$\$MLTP	001	0028	0065					
\$CC4#2	001	0002	0027	0084				
\$CC4BT	001	0006	0031					
\$CC4DF	001	0001	0026					
\$CC4FR	001	0003	0028	0081				
\$CC4IB	001	0005	0030	0071				
\$CC4IM	001	0012	0043					
\$CC4M1	001	0008	0033					
\$CC4VT	001	0000	0002	0088				
\$CC4V2	001	0029	0066					
ADDRS2	001	0004	0029	0083				
CMCLOZ	001	0010	0041	0076				
MLTIO1	001	001D	0054					
MLTOP1	001	001B	0052					
MLTSP0	001	001C	0053					
MSBSSA	001	0011	0042	0079				

TOTAL STATEMENTS IN ERROR IN THIS GENERATION-- 0

- OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 3
NAME-\$CC4VT,PACK-R2R2R2,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000
- OL105 I THE CODE LENGTH OF \$CC4VT IS 21 DECIMAL.

1 CT EJ I
PROGRAM END

\$CGDRV01

XX	CALL	\$CC1#2,R1	*** EXPAND \$CC4#2 MACROS	CCP00451
***	USE THE MACRO PROCESSOR TO EXPAND SOURCE CODE OF THE SECOND			CCP00245
***	RESIDENT MODULE - \$CC4#2			CCP00246
*				CCP00247
XX	LOAD	\$MPXDV,R1		CCP00248
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,TRACKS-180,RETAIN-T,		CCP00249
XX		SHARE-NO		CCP00250
XX	COMPILE	UNIT-R1,SOURCE-\$CC1#2		CCP00251
XX	RUN			CCP00252

1 CT EJ I
PROGRAM END

\$MPXDV01

XX	CALL	\$CC1#B,R1	*** ASSEMBLE \$CC4#2	CCP00452
***	USE THE SCP GENERATOR TO PROCESS THIS SOURCE CODE INTO A			CCP00296
***	RELOCATABLE MODULE - \$CC4#2			CCP00297
*				CCP00298
XX	LOAD	\$CGDRV,R1		CCP00299
XX	SWITCH	1XXXXXXX		CCP00300
XX	FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,RETAIN-S,SHARE-NO		CCP00301
XX	FILE	NAME-\$WORK,UNIT-D1,PACK-PID001,TRACKS-050,RETAIN-S,		CCP00302
XX		SHARE-NO		CCP00303
XX	FILE	NAME-\$WORK2,UNIT-D1,PACK-PID001,TRACKS-050,RETAIN-S,		CCP00304
XX		SHARE-NO		CCP00305
XX	RUN			CCP00306

\$CC4#2

EXTERNAL SYMBOL LIST

SCP GENERATOR 08/08/10 PAGE 1

SYMBOL	TYPE
\$CC4#2	MODULE
CMBEG	ENTRY
\$CC4CM	ENTRY
\$CC4FR	ENTRY
\$\$BMCH	ENTRY
CHBMHL	ENTRY
CHBMBS	ENTRY
SAVCAT	ENTRY
\$\$BSMS	EXTRN
\$CC4BT	EXTRN
\$CC4M1	EXTRN
\$CC4M2	EXTRN

\$CC4#2 BEGIN CCP COMMUNICATIONS CONTROL MODULE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	2
0000		2	\$CC4#2	START	0	CCP COMMUNICATIONS CNTRL MODULE			CCP00256
		3	*	\$E000	#M-0,#B-1,DF-0,DE-0,MS-0,RF-0,RS-0				CCP00257
		4	*	\$E002	ML-00,MT-000,MF-0,MS-0				CCP00258
		5	*	\$E003	BL-0010,BF-00100100,BT-0100010000000000,INP-1,BIA-1,BY-0				CCP00259
		6	*	\$E004	CS#-0,CSI-0,CT-0000000000000000,CSF-00000000,SIOC-0				CCP00260
		7	*	\$E005	AP-0,CP-0,TK-0,PP-0,CS-0				CCP00261

\$CC4#2 EQUATES -- COMMON VALUES

CCP00263

```

9 *      $EEQU
10+*****
11+*      C O M M O N   S Y M B O L S      *
12+*****
    
```

14+* EQUATES FOR BITS WITHIN A BYTE

```

0080 15+BIT0 EQU X'80' BIT X... ....
0040 16+BIT1 EQU X'40' BIT .X.. ....
0020 17+BIT2 EQU X'20' BIT ..X. ....
0010 18+BIT3 EQU X'10' BIT ...X ....
0008 19+BIT4 EQU X'08' BIT .... X...
0004 20+BIT5 EQU X'04' BIT .... .X..
0002 21+BIT6 EQU X'02' BIT .... ..X.
0001 22+BIT7 EQU X'01' BIT .... ...X
    
```

```

0000 24+NOBIT EQU X'00' *NO* BITS ON WITHIN BYTE
00FF 25+ALLBIT EQU X'FF' *ALL* BITS WITHIN BYTE
    
```

27+* SYSTEM DETECTED ERROR CONDITIONS *

```

0000 28+TIFE EQU 0 FREEMAIN ERROR
0001 29+TIBC EQU TIFE+1 BAD START CODE
0002 30+TIRC EQU TIBC+1 BAD RETURN CODE
0003 31+TITR EQU TIRC+1 TRANSLATE ERROR
0004 32+TIYA EQU TITR+1 NO USER SECURITY
0005 33+TIAC EQU TIYA+1 ADAPTER CHECK
0006 34+TISS EQU TIAC+1 BAD SENSE STATUS
0007 35+TICS EQU TISS+1 PERMANENT BSCC ERROR
0008 36+TICR EQU TICS+1 INVALID BSCC RETURN CODE
0009 37+TINS EQU TICR+1 STATUS NOT RECEIVED FROM 3270
    
```

```

0080 39+WAIT EQU BIT0 WAIT BIT IN ECB
0040 40+POST EQU BIT1 POST BIT IN ECB
0020 41+SKIP EQU BIT2 SKIP BIT IN ECB
    
```

43+* REGISTER EQUATES

```

0001 44+XR1 EQU 1 INDEX REGISTER ONE
0002 45+XR2 EQU 2 INDEX REGISTER TWO
0004 46+PSR EQU 4 PROGRAM STATUS REGISTER
0008 47+ARR EQU 8 ADDRESS RECALL REGISTER
0010 48+IAR EQU 16 PROGRAM LEVEL IAR
0030 49+PMR EQU 48 PROGRAM MODE REGISTER
0040 50+LCPPMR EQU 64 PROGRAM MODE REG FOR LCP INSTR.
    
```

```

0080 52+LVIIAR EQU X'80' DPF INTERRUPT LEVEL IAR
0090 53+LVMIAR EQU X'90' MLTA INTERRUPT LEVEL IAR
00A0 54+LVBIAR EQU X'A0' BSCA INTERRUPT LEVEL IAR
00C0 55+LVCIAR EQU X'C0' CONSOLE INTERRUPT LEVEL IAR
    
```

57+* Q-BYTE EQUATES FOR BRANCH/NOP

```

0007 58+NOP EQU X'07' NO-OP
0080 59+NOOP EQU X'80' NO-OP
00FF 60+UNCON EQU X'FF' ALWAYS BRANCH
0080 61+BRNOP EQU X'80' BRANCH NO-OP
    
```

\$CC4#2 EQUATES -- COMMON VALUES

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	4
		0087	62+BR	EQU	X'87'				ALWAYS BRANCH
		0097	63+BR97	EQU	X'97'				BRANCH AND RESET FALSE BIT
		65+* EQUATES FOR MODIFIED FIELDS IN AN INSTRUCTION							
		0000	67+#	EQU	X'00'				ANY FIELD
		0000	68+##	EQU	X'00'				SINGLE-BYTE FIELD
		0000	69+###	EQU	X'00'				ONE- OR TWO-BYTE FIELD
		0000	70+####	EQU	X'0000'				TWO-BYTE FIELD
		72+* CONDITION CODE EQUATES							
		0080	73+ANY	EQU	X'80'				IF *ANY* CONDITION HOLDS
		0000	74+NONE	EQU	X'00'				IF *NO* CONDITION HOLDS
		0020	75+BOVFL	EQU	X'20'				BINARY OVERFLOW
		0010	76+FALSE	EQU	X'10'				FALSE
		0008	77+DOVFL	EQU	X'08'				DECIMAL OVERFLOW
		0004	78+HI	EQU	X'04'				FIRST OPERAND HIGH
		0002	79+LO	EQU	X'02'				FIRST OPERAND LOW
		0001	80+EQ	EQU	X'01'				OPERANDS EQUAL
		0070	81+PMRI12	EQU	112				OP2,OP1,I-CYCLE TRANSLATE
		0040	82+PMROP2	EQU	64				OPERAND 2 E-CYCLES TRANSLATION
		0020	83+PMROP1	EQU	32				OPERAND 1 E-CYCLES TRANSLATION
		0010	84+PMRINS	EQU	16				INSTRUCTION-CYCLES TRANSLATION
		0008	85+PMRPRV	EQU	8				PRIVELEGED
		0002	86+PMRPRT	EQU	2				STORAGE PROTECT
		0001	87+PMRINT	EQU	1				MASK INTERRUPTS
		89+* EQUATES FOR TYPES OF CCP TRACE ENTRIES							
		00E7	90+TTTRAN	EQU	X'E7'				TRACE ID FOR TRANSIENT CALLS
		00E8	91+TTGETM	EQU	X'E8'				TRACE ID FOR GETMAIN
		00E9	92+TTFREE	EQU	X'E9'				TRACE ID FOR FREEMAIN
		00EA	93+TTMOPN	EQU	X'EA'				TRACE ID FOR TP CHECK ROUTINE
		00EB	94+TTMSIO	EQU	X'EB'				TRACE ID FOR MLTA START IO
		00FB	95+TTBSIO	EQU	X'FB'				TRACE ID FOR BSCA START IO
		00EC	96+TTII	EQU	X'EC'				TRACE ID FOR \$CC4II
		00ED	97+TTIS	EQU	X'ED'				TRACE ID FOR \$CC4IS
		00EE	98+TTIIRT	EQU	X'EE'				RETURN FROM \$CC4II TO USER
		00FC	99+TTDFEN	EQU	X'FC'				TRACE ID FOR ENTRY TO DFF TASK
		00FE	100+TTDFEX	EQU	X'FE'				TRACE ID FOR EXIT FROM DFF TASK

102 * \$ECOM ID-0,DF-0,CP-Y,AM-Y,TM-Y,CM-Y
 103+*****
 104+* C O M M U N I C A T I O N S C O N T R O L P R O G R A M *
 105+* C O M M O N A R E A O F F S E T S *
 106+*****

4000 107+TAONE EQU X'4000' LOCATION OF TRANSIENT AREA 1
 4300 108+TATWO EQU TAONE+768 LOCATION OF TRANSIENT AREA 2
 4600 110+\$COMON EQU X'4600' ADDRESS OF CCP COMMON

112+*-----ENTRY POINT ADDRESS DEFINITION-----*

4601 113+@CC4TR EQU \$COMON-1+2 TRANSIENT RETURN ADDRESS
 4603 114+@CC4TX EQU @CC4TR+2 TRANSIENT TRANSFER CONTROL @
 4605 115+@CC4PI EQU @CC4TX+2 1ST LEVEL TRANSIENT INVOCATION @
 4605 116+@CC4TA EQU @CC4TX+2 1ST LEVEL TRANSIENT INVOCATION @
 4607 117+@CC4IS EQU @CC4TA+2 COMMUNICATIONS I/O INTERFACE ADR
 4609 118+@CC4GM EQU @CC4IS+2 GETMAIN ENTRY ADDRESS
 460B 119+@CC4FM EQU @CC4GM+2 FREEMAIN ENTRY ADDRESS
 460D 120+@MLTIO EQU @CC4FM+2 MLTA IOCS ENTRY POINT @.
 460F 121+@MLTOP EQU @MLTIO+2 MLTA OPEN ENTRY POINT @.
 4611 122+@USECW EQU @MLTOP+2 USER SECURITY DATA WORK AREA ADR
 4613 123+@CC4MX EQU @USECW+2 MOVE FOREVER ROUTINE ADDRESS
 4615 124+@C4TI2 EQU @CC4MX+2 PROGRAM TERMINATION INTERFACE @
 4617 125+@CC4TI EQU @C4TI2+2 OTHER TASK TERMINATE ADDRESS
 4619 126+@CC4SR EQU @CC4TI+2 ENTRY ADDRESS IN MOVE ROUTINE
 461B 127+@CC4TH EQU @CC4SR+2 @ TERMINATION INTERFACE
 461D 128+@BTRAC EQU @CC4TH+2 CCP BSCA TRACE ROUTINE
 461F 129+@MTRAC EQU @BTRAC+2 CCP MLTA TRACE ROUTINE

131+*-----TRANSIENT COMMUNICATION AREA-----*

4621 132+SV1TAX EQU @MTRAC+2 TRANSIENT AREA 1 PARAMETER AREA
 4623 133+SV2TAX EQU SV1TAX+2 TRANSIENT AREA 2 PARAMETER AREA

135+*-----ADDRESSES OF SYSTEM TASK CONTROL BLOCKS -----*

4625 136+@CMTCB EQU SV2TAX+2 @ COMMUNICATIONS MANAGEMENT TCB
 4627 137+@DFTCB EQU @CMTCB+2 @ OF DISPLAY FORMAT FACILITY TCB
 4629 138+@TMTCB EQU @DFTCB+2 @ TERMINATION TCB
 462B 139+@CPTCB EQU @TMTCB+2 @ COMMAND PROCESSOR TCB
 462D 140+@AVTCB EQU @CPTCB+2 @ AVAILABLE TCB'S

142+*----- SYSTEM LEVEL FLAGS -----*

462E	143+\$FLGA	EQU	@AVTCB+1	FIRST SYSTEM LEVEL FLAG BYTE
0080	144+#DFFOK	EQU	BIT0	DFF IS SUPPORTED
0040	145+CPSOB1	EQU	BIT1	SIGN ON PASSWORD REQUIRED
0020	146+CPSOB2	EQU	BIT2	SIGN ON USER PASSWORD REQUIRED
0010	147+CPSHUT	EQU	BIT3	SHUTDOWN HAS BEEN REQUESTED
0008	148+CPSU	EQU	BIT4	STARTUP IS IN PROCESS
0004	149+#EPL	EQU	BIT5	EXT POINT LIST SUPPORTED
0002	150+CPSHD	EQU	BIT6	SHUTDOWN IN PROCESS
0001	151+CPISNW	EQU	BIT7	\$CC4IS IS NOT TO ISSUE WAIT
	152+*			AFTER POSTING \$CC4CM

462F	154+\$FLGB	EQU	\$FLGA+1	SECOND SYSTEM LEVEL FLAG BYTE
0080	155+#SUALL	EQU	BIT0	SUSPEND ALL IN EFFECT
0040	156+#SUINT	EQU	BIT1	SUSPEND INIT IN EFFECT
0020	157+#SUCMD	EQU	BIT2	SUSPEND COMMANDS IN EFFECT
0010	158+CPSHDP	EQU	BIT3	SHUTDOWN IS PENDING
0008	159+#FEHLT	EQU	BIT4	FEHALT IS RUNNING
0004	160+#RESPR	EQU	BIT5	RESIDENT PROGRAM REQUEST GEN'D
0002	161+#CPCAN	EQU	BIT6	CCP CANCEL RECEIVED
0001	162+#PUCNT	EQU	BIT7	PROGRAM USE COUNTING IS ON

4630	164+\$FLGC	EQU	\$FLGB+1	THIRD SYSTEM LEVEL FLAG BYTE
0080	165+#MTRAC	EQU	BIT0	MLTA TRACE IS ON
0040	166+#BTRAC	EQU	BIT1	BSCA TRACE IS ON
0020	167+#NTRAC	EQU	BIT2	NO TRACE FOR CM (INT POLL)
0010	168+#PUTTP	EQU	BIT3	PUT ONLY TP GETMAIN REQUEST
0008	169+#INVPL	EQU	BIT4	INVITE PL GETMAIN REQUEST
0004	170+INTPNO	EQU	BIT5	1=NO INT POLL SUPPORT FOR BSCC
0002	171+INTNSP	EQU	BIT6	1=NO INT POLL SUPPORT FOR BSCA
0001	172+#NTRCS	EQU	BIT7	NO TRACE FOR CS (INT POLL)

174+*----- SYSTEM CONSTANTS -----*

4632	175+X\$0000	EQU	\$FLGC+2	CONSTANT XL2'0000'
4633	176+X\$0001	EQU	X\$0000+1	CONSTANT XL2'0001'
4635	177+X\$0002	EQU	X\$0001+2	CONSTANT XL2'0002'
4637	178+X\$0004	EQU	X\$0002+2	CONSTANT XL2'0004'
4639	179+X\$FFFF	EQU	X\$0004+2	CONSTANT XL2'FFFF'

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	7
			181+*	-----	QUEUE ADDRESS POINTERS	-----			*
463B		182+	@ALOCQ	EQU	X\$FFFF+2				Q OF TASKS WAITING TO BE ALLOC'D
463D		183+	@WATSK	EQU	@ALOCQ+2				ALLOCATE WAIT QUEUE
463F		184+	@QTUBS	EQU	@WATSK+2				@ Q TUB'S WAITING FOR TCB/CORE
4641		185+	@GMWTQ	EQU	@QTUBS+2				@ GETMAIN TCB QUEUE
4643		186+	@DFEQ	EQU	@GMWTQ+2				QUEUE FOR REQUESTS TO DFF TASK
4645		187+	@PRLQ	EQU	@DFEQ+2				@ OF PARAMETER LIST QUED FOR CM
			189+*	-----	LIST ADDRESS POINTERS	-----			*
4647		190+	@TALST	EQU	@PRLQ+2				@ PROGRAM LIST IN \$CC4TA
4649		191+	@TCORG	EQU	@TALST+2				@ OF THE TCB LIST
464B		192+	@ROCAT	EQU	@TCORG+2				ATT @ OF RESIDENT OPEN/CLOSE
464D		193+	@LCB#1	EQU	@ROCAT+2				@ FIRST LCB IN SYSTEM
464F		194+	@TUBQ	EQU	@LCB#1+2				@ OF THE FIRST TUB IN THE SYSTEM
4651		195+	@EPATR	EQU	@TUBQ+2				ATT @ OF EXTERNAL POINTER LIST
4651		196+	@DFCT	EQU	@EPATR				ADDRESS OF SHORT DTF @ LIST
4653		197+	@TNT	EQU	@EPATR+2				@ OF 1ST TERMINAL NAME TABLE ENT
4655		198+	@XDT	EQU	@TNT+2				@ 1ST SYMBOLIC DFCT NAME ENTRY
			200+*	-----	MAIN STORAGE CONTROL BLOCK(TPBUFF)	-----			*
4656		201+	@BUFA	EQU	@XDT-1+2				@ OF FIRST FREE SEGMENT
4659		202+	#NBND	EQU	@BUFA+1+2				RESERVED - MUST BE ZEROS
465B		203+	@LOBND	EQU	#NBND+2				@ LO-BOUND GETMAIN AREA
465D		204+	@HIBND	EQU	@LOBND+2				@ HI-BOUND GETMAIN AREA
465E		205+	#GMS	EQU	@HIBND-1+2				SIZE OF LARGEST FREE SPACE
4661		207+	#TPBUF	EQU	#GMS+1+2				ORIGINAL SIZE OF TPBUFF
4662		208+	@UPA	EQU	#TPBUF+1				USER PROGRAM AREA ATR
4663		209+	#AVCOR	EQU	@UPA+1				# 2K BLOCKS NOT GIVEN TO NEP'S
4665		210+	@PUCNT	EQU	#AVCOR+2				@ PROGRAM USE COUNT TABLE
			212+*	-----	GENERAL AREAS	-----			*
4667		213+	@TUSTG	EQU	@PUCNT+2				@ OF TUB IN STAGING NOW(CP TASK)
4669		214+	@KNTUB	EQU	@TUSTG+2				@ OF CONSOLE TUB
466B		215+	@PTX	EQU	@KNTUB+2				@ OF PCT MASTER INDEX
466D		216+	@PTXCS	EQU	@PTX+2				C/S VALUE OF PCT DISK START
466E		217+	#PCTLN	EQU	@PTXCS+1				LONGEST LEN PCT USED BY PGM RQST
466F		218+	#DFCT	EQU	#PCTLN+1				NO. ENTRIES IN SHORT DTF @ LIST
4670		219+	#SETID	EQU	#DFCT+1				ID OF ASSIGNMENT SET IN USE
4671		220+	#XDT	EQU	#SETID+1				NUMBER OF SYMFILE STATEMENTS
4672		221+	#RSVD1	EQU	#XDT+1				RESERVED AREA - 1 BYTE
4673		222+	@UALFA	EQU	#RSVD1+1				ATR - UNCHANGING START OF UPA
4675		223+	@TKFSB	EQU	@UALFA+2				FSB AREA FOR TCB'S
4676		225+	CPLPWD	EQU	@TKFSB+1				LENGTH OF SIGN ON PASSWORD
467C		226+	CPPSWD	EQU	CPLPWD+6				CCP SIGN ON PASSWORD
			228+*	-----	CCP DUMP AREA DISK ADDRESSES	-----			*
467D		229+	#DUMPQ	EQU	CPPSWD+1				Q-BYTE OF \$CCPDUMP FILE UNIT
467F		230+	@CPDMP	EQU	#DUMPQ+2				DISK ADDRESS OF \$CCPDUMP FILE
4682		231+	@NDUMP	EQU	@CPDMP+3				DISK ADDRESS OF NEXT DUMP

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	8
		467E	232+@DSTRT	EQU	CPPSWD+2				DUMP AREA START C/S
		4680	233+@DEND	EQU	@DSTRT+2				DUMP AREA END C/S
		4682	234+@DNEXT	EQU	@DEND+2				DUMP AREA NEXT ENTRY C/S
		4683	235+#CPFLQ	EQU	@NDUMP+1				\$CCPFILE DEVICE Q-BYTE

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

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237+*----- FIXED LOCATIONS OF RESIDENT CODE -----*

4684	238+CC4TA	EQU	#CPFLQ+1	LOAD IAR OF @CC4TA
4684	239+CC4PI	EQU	CC4TA	LOAD IAR OF @CC4PI (@CC4TA)
4688	240+CC4IS	EQU	CC4TA+4	LOAD IAR OF @CC4IS
468C	241+CC4GM	EQU	CC4IS+4	LOAD IAR OF @CC4GM
4690	242+CC4FM	EQU	CC4GM+4	LOAD IAR OF @CC4FM
4694	243+USECW	EQU	CC4FM+4	LOAD IAR OF @USECW
4698	244+CC4MX	EQU	USECW+4	LOAD IAR OF @CC4MX
469C	245+C4TI2	EQU	CC4MX+4	LOAD IAR OF @C4TI2
46A0	246+CC4TI	EQU	C4TI2+4	LOAD IAR OF @CC4TI
46A4	247+CC4TT	EQU	CC4TI+4	LOAD IAR OF \$TRACE(X'004C')
46A8	248+CC4SR	EQU	CC4TT+4	LOAD IAR OF @CC4MV
46AC	249+CC4FR	EQU	CC4SR+4	LOAD IAR OF @CC4FR
46B1	250+@CC4FR	EQU	CC4FR+3+2	@ OF \$CC4FR IN CM
46B3	251+@CC4II	EQU	@CC4FR+2	@ OF \$CC4II

253+*----- MAINTENANCE SPACE ----- 2 BYTES -----*

46B6	255+\$END1	EQU	@CC4II+2+1	END OF MAINTENANCE SPACE
------	------------	-----	------------	--------------------------

257+*----- WORK AREAS LENGTHS DEFINITIONS -----*

000F	258+#LDFWK	EQU	15	LENGTH DFF WORK AREA
0032	259+#LCPWK	EQU	50	LENGTH COMND PROCESSOR WORK AREA
0009	260+#LAMWK	EQU	9	LENGTH ALLOCATION WORK AREA
0018	261+#LTMWK	EQU	24	LENGTH TERMINATION WORK AREA
002D	262+#LCMWK	EQU	45	LENGTH COMMO MGMT WORK AREA
008F	263+#LWKWK	EQU	143	LENGTH-SUM OF ALL WORK AREAS

265+*----- CONSOLE TUB AND PARAMETER LIST -----*

4745	266+KNTUB	EQU	\$END1+#LWKWK	FIXED LOCATION OF CONSOLE TUB
476C	267+KNPL	EQU	KNTUB+39	CONSOLE PARAMETER LIST

269+*----- SHUTDOWN FIELDS -----*

477F	270+SHDECB	EQU	KNPL+19	SHUTDOWN'S ECB
4784	271+FEHLT@	EQU	SHDECB+2+3	ADDRESS OF FE HALT ROUTINE
478F	272+SHDSAV	EQU	FEHLT@+11	CM TCB FIELDS SAVE AREA

274+*----- CM FIELDS AND MAINTENANCE SPACE -----*

4790	275+#CMTRL	EQU	SHDSAV-10+11	CM'S TRANSLATE PARAMETER LIST
4790	276+#CMMVL	EQU	#CMTRL	CM'S MOVE PARAMETER LIST
479E	278+PLTIME	EQU	#CMMVL+10+4	POLL TIME FOR CM
47A1	279+WATIME	EQU	PLTIME+3	WAIT TIME FOR CM
47A2	280+SAVLOP	EQU	WATIME+1	SAVE AREA FOR POLL LOOP COUNT
47A4	281+@CCPTB	EQU	SAVLOP+2	ADDRESS OF CCP PARTITION TCB
47A6	282+#TPPUT	EQU	@CCPTB+2	LENGTH OF PUT AREA OF TPBUFFER
47A8	283+#TPANY	EQU	#TPPUT+2	LENGTH OF COMMON TPBUFFER AREA
47A9	284+#ANYS	EQU	#TPANY+1	SIZE OF LARGEST COMMON AREA
47AB	285+CORCNT	EQU	#ANYS+2	NUMBER OF PL WAITING ON CORE

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT

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4800 286+@TMIOB EQU X'4800'

LOCATION OF SHUTDOWN TIMER IOB

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

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ERR LOC  OBJECT CODE      ADDR STMT SOURCE STATEMENT          SCP GENERATOR  08/08/10  PAGE  11

      288+***** COMMAND PROCESSOR WORK AREA          50 BYTES*****
46C5  289+$CPWK EQU  $END1+#LDFWK          START OF COMMAND
46C5  290+$CP EQU  $CPWK                      PROCESSOR'S WORK AREA

      292+*----- COMMAND PROCESSOR ECB LIST -----*
46CA  293+$CPLST EQU  $CP+5          ECB LIST.  DEFINED AS FOLLOWS:
      294+* DC  AL2(@TMECB)          SHUTDOWN TIMER ECB
      295+* DC  AL2($CPQ)           PROGRAM INITIATE-POSTED BY TERM
      296+* DC  AL2($CPPF9)        PF9 - PROGRAM REQUEST
      297+* DC  AL2($CPCM)        DATA IN TP BUFFER FOR CP
      298+* DC  AL2($CPOCC)       OCC
      299+* DC  AL2($CP1ST/$CPWTO/65535)  STARTUP/WTOR/LIST DELIMITER
      300+* DC  XL2'FFFF'         LIST DELIMITER

0001  302+#CPTMR EQU  1          OFFSET TO TIMER ECB @
0003  303+#CPCPQ EQU  3          OFFSET TO PROG INIT ECB @
0005  304+#CPPF9 EQU  5          OFFSET TO PF9 ECB @
0007  305+#CPCM EQU  7          OFFSET TO CM ECB @
0009  306+#CPOCC EQU  9          OFFSET TO OCC ECB @
000B  307+#CP1ST EQU  11         OFFSET TO 1ST ECB @
000B  308+#CPWTO EQU  11         OFFSET TO WTO ECB @
000D  309+#CPEND EQU  13         OFFSET TO END OF @ LIST

      311+*----- COMMAND PROCESSOR ECB'S -----*
4807  312+@TMECB EQU  @TMIOB+7    TIMER ECB LOCATION IN IOB
46D8  313+$CPQ EQU  $CP+19        PROGRAM INITIATE-POSTED BY TERM
46DB  314+$CPPF9 EQU  $CP+22        PF9 - PROGRAM REQUEST
46DE  315+$CPCM EQU  $CP+25        DATA IN TP BUFFER FOR CP
0048  316+$CPOCC EQU  X'0048'     OCC - IN THE DSM NUCLEUS
46E1  317+$CP1ST EQU  $CP+28        FIRST TIME SWITCH
0000  318+$CPWTO EQU  0           WTO - GETMAINED FOR IN TPBUFF

      320+*----- COMMAND PROCESSOR FLAG BYTE -----*
46E2  321+$CPFLG EQU  $CP+29        COMMAND PROCESSOR FLAG BYTE
0080  322+$CPFR EQU  BIT0          FREEMAIN TO BE DONE
0010  323+$CPCFR EQU  BIT3          FREE NEEDED FOR CONSOLE OCC
0008  324+$CPDPG EQU  BIT4          PAGE 1 OF DISPLAY DONE
0004  325+$CPD1S EQU  BIT5          DO SECONDARY MENU
0002  326+$CPPAS EQU  BIT6          ASSIGNMENT/SHUTDOWN INTERLOCK
0001  327+$CPFND EQU  BIT7          ASSIGNMENT/CCPFMT/CCPPGM INTLK

      329+*----- COMMAND PROCESSOR TASK TRANSIENT COMMUNICATION AREA -----*
46E3  330+$CPPRQ EQU  $CP+30        LABEL FOR PROGRAM REQUEST

46E3  332+$CPCOM EQU  $CP+30        LABEL FOR COMMANDS
46E4  333+$CPRTC EQU  $CP+31        SAVE AREA FOR PLRTC
46E6  334+$CPEFL EQU  $CP+33        SAVE AREA FOR PLEFFL
46E8  335+$CPRCA EQU  $CP+35        SAVE AREA FOR PLRECA

      337+*----- STARTUP VALUES - VALID ONLY DURING STARTUP -----*
46E5  338+$CPMSG EQU  $CP+32        ADDRSS OF $CC4IG
46E7  339+#LSTSZ EQU  $CPMSG+1+1    # ENTRIES IN FIRST LEVEL LIST
46E9  340+@XSNT1 EQU  #LSTSZ+2     ENTRIES IN $CC4PI

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\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	12
		46EB	341+	@XSNT2	EQU @XSNT1+2				FOR START-UP
		46ED	342+	@L1TCB	EQU @XSNT2+2				SWITCHED LCB TCB @ FOR LINE 1
		46EF	343+	@L2TCB	EQU @L1TCB+2				SWITCHED LCB TCB @ FOR LINE 2

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	13
				345+*****	ALLOCATION WORK AREA				9 BYTES*****
46F7		346+\$AMWK	EQU	\$END1+#LDFWK+#LCPWK	START OF ALLOCATION				
46F7		347+\$AM	EQU	\$AMWK	WORK AREA				
46F7		349+\$AMFLG	EQU	\$AM	ALLOCATION FLAG BYTE				
0080		350+\$AMBSY	EQU	BIT0	1--ALLOCATION BUSY				
0040		351+\$APEND	EQU	BIT1	1--ALLOCATION TASK POST PENDING				
0020		352+\$AMDFE	EQU	BIT2	NON-RESIDENT DFE ALOC IN PROCESS				
0010		353+\$AMA1	EQU	BIT3	U/R DEVICE ALLOCATION IN PROCESS				
0008		354+\$AMA2	EQU	BIT4	REJECT IN PROCESS				
0004		355+\$AMPF9	EQU	BIT5	CONSOLE TUB IN USE FOR PROGRAM				
0002		356+\$AMERR	EQU	BIT6	ALLOCATION REJECT IN PROCESS				
46F8		358+\$AMUR	EQU	\$AMFLG+1	CCP LEVEL AND SPOOLING DEVICES.				
0080		359+A1SPLV	EQU	BIT0	1=CCP IS IN LEVEL 1.				
		360+*			0=CCP IS IN LEVEL 2.				
0040		361+A1PTRS	EQU	BIT1	PRINTER IS SPOOLED FOR CCP LVL.				
		362+*		BIT2	MFCU/M SEC IS SPOOL RDR FOR CCP				
		363+*		BIT3	MFCU/M SEC IS SPOOL PCH FOR CCP				
0008		364+A1741S	EQU	BIT4	3741 IS SPOOLED READER FOR CCP				
0004		365+A1501S	EQU	BIT5	2501 IS SPOOLED READER FOR CCP				
		366+*		BIT6	MFCU/M PRI IS SPOOL RDR FOR CCP				
		367+*		BIT7	MFCU/M PRI IS SPOOL PCH FOR CCP				
46F9		368+\$AMPA	EQU	\$AMUR+1	PERM ALOC AND SPOOLED UR				
		369+*			DEVICES FOR CCP.				
		370+*PCTPRS		BIT0	1=WILL SHARE PRINTER.				
		371+*PCT41I		BIT1	1=3741 IS PERMANENTLY ALLOCATED				
		372+*PCT501		BIT2	1=2501 IS PERM ALLOCATED.				
		373+*PCTPRT		BIT3	1=PRINTER IS PERM ALLOCATED.				
		374+*PCT142		BIT4	1=1442 IS PERM ALLOCATED.				
		375+*PCTMFU		BIT5	1=MFCU/M IS PERM ALLOCATED.				
		376+*		BIT6	1=1442 IS SPOOL READER FOR CCP				
		377+*		BIT7	1=1442 IS SPOOL PUNCH FOR CCP				
46FA		379+\$AMSA	EQU	\$AMPA+1	IN USE DEVICES				
0002		380+AMSORT	EQU	BIT6	1 = \$INDEX45 FILE IN USE				
46FB		381+\$AMSHR	EQU	\$AMSA+1	COUNT OF PRESENT PRINT SHARERS				
46FC		382+\$AMID	EQU	\$AMSHR+1	TCB ID OF LEVEL CCP IS IN				
46FD		383+\$AMUSE	EQU	\$AMID+1	COUNT OF ACTIVE USER TASKS				
46FF		384+\$AMWRK	EQU	\$AMUSE+2	ALLOCATION WORK FIELD				

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	14
			386+	*****	TERMINATOR WORK AREA			24	BYTES*****
4700		387+	\$TMWK	EQU	\$END1+#LDFWK+#LCPWK+#LAMWK				START OF TERMINATION'S
4700		388+	\$TM	EQU	\$TMWK				WORK AREA
4700		390+	\$TMFLG	EQU	\$TM				TERMINATOR FLAG BYTE
0080		391+	\$TMSTK	EQU	BIT0				SYSTEM TASK FAILURE
0080		392+	\$TMBSY	EQU	BIT0				1--TERMINATION TASK IS ACTIVE
		393+	*						0--TERMINATION TASK NOT BUSY
0040		394+	\$TMDMP	EQU	BIT1				1--NO USER TASK ACTIVE FOR C CCP
		395+	*						0--USER TASK ACTIVE FOR C CCP
0020		396+	\$TMEJ	EQU	BIT2				1--\$CC4EJ (CCP END OF JOB)
		397+	*						HAS BEEN INVOKED BY \$CC4TD
		398+	*						(TERMINATION CONTROL ROUTINE)
0010		399+	\$TMCLZ	EQU	BIT3				TERMINATION MUST CALL CLOSE
0008		400+	\$TMTWA	EQU	BIT4				\$CC4TW ACTIVE IN XIENT AREA
0004		401+	\$TMDDR	EQU	BIT5				DISK DUMP REQUESTED (NOT 2A,2B)
0002		402+	\$TMDFL	EQU	BIT6				ON=NO MORE DUMP SPACE GUARANTEED
0001		403+	\$TMDER	EQU	BIT7				ON=PERMANENT DISK I/O ERROR
		404+	*						DURING TERMINATION DUMP
4702		406+	\$TMTCB	EQU	\$TMFLG+2				@ OF TCB CURRENTLY BEING
		407+	*						PROCESSED BY TERMINATION TASK
4703		408+	\$TMECB	EQU	\$TMTCB+1				TERMINATION'S ECB (3 BYTES)
4707		409+	\$TMDID	EQU	\$TMECB-1+3+2				DUMP ID DIGITS (2 BYTES)
		411+	*	-----	\$CC4TI-\$CC4TM-CC4TH WORK AREAS-----*				
4709		412+	TIWRK1	EQU	\$TMDID+2				RESIDENT WORK
470B		413+	TIWRK2	EQU	TIWRK1+2				AREAS
470D		414+	TIWRK3	EQU	TIWRK2+2				FOR INFORMATION
470F		415+	TIWRK4	EQU	TIWRK3+2				SAVE ON
4711		416+	TIWRK5	EQU	TIWRK4+2				SYSTEM DISASTER
4713		417+	TIWRK6	EQU	TIWRK5+2				CONDITIONS
4713		418+	@XSNT3	EQU	TIWRK6				ADDRESS OF TRANSIENT AREA 3 IOB
4715		419+	@CSXPT	EQU	TIWRK6+2				C/S ADDRESS OF ORIGINAL PCT
		421+	*	-----	PSEUDO OPEN/CLOSE SAVE AREA FOR ATTS -----				
470B		422+	OPSATT	EQU	\$TMDID+4				FSA ATT SAVE AREA
470D		423+	OPEATT	EQU	OPSATT+2				EXT BUF ATT SAVE AREA
470E		424+	OPSEG#	EQU	OPEATT+1				SAVE AREA FOR SEGMENT NUMBER

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	15
			426+*****		COMMUNICATIONS MANAGEMENT WORK AREA			45	BYTES*****
4718		427+\$CMWK	EQU		\$END1+#LDFWK+#LCPWK+#LAMWK+#LTMWK				START OF COMMUNICATION
4718		428+\$CM	EQU		\$CMWK				MANAGEMENT WORK AREA
4719		430+#CMDTF	EQU		\$CM+1				SAVE AREA FOR DTF ADDRESS
471B		431+#CMPL	EQU		#CMDTF+2				SAVE AREA FOR PARM LIST
471D		433+#CMTMA	EQU		#CMPL+2				SAVE AREA FOR TERMINAL ADDRESS
471D		434+#CMBK1	EQU		#CMTMA				RETURN CODE FOR \$CC4BL MESSAGE
471E		436+#CMTFT	EQU		#CMTMA+1				SAVE AREA FOR TERMINAL FEATURES
471E		437+#CMBK2	EQU		#CMTFT				INTERNAL MSG TYPE FOR \$CC4BL
4720		439+#CMPTR	EQU		#CMTFT+2				SAVE AREA FOR PREVIOUS POINTER
4722		440+#CMFPL	EQU		#CMPTR+2				SAVE AREA FOR FOUND PARM LIST
4724		441+#CMLSL	EQU		#CMFPL+2				LAST LCB CHECKED FOR PL NEEDING
		442+*							* GETMAIN
4726		443+#CMTUB	EQU		#CMLSL+2				SAVE AREA FOR TUB ADDRESS
4728		444+#CMERP	EQU		#CMTUB+2				@ OF DTF TO BE RESCHEDULED AFTER
		445+*							BEING IN CCP ERP
4729		446+#CMSWT	EQU		#CMERP+1				CONTROL SWITCH
0080		447+#CMARR	EQU		BIT0				1--OK TO MODIFY TCBARR
0040		448+#CMFMD	EQU		BIT1				1--CM FREEMAIN DONE SINCE LAST
		449+*							* CHECK.
0020		450+PRUFOF	EQU		BIT2				1--RESET PRUF MODE (PRUFOF)
472A		452+#OPEND	EQU		#CMSWT+1				T-P OP END COUNT
472C		453+#CCMCL	EQU		#OPEND+2				MAXIMUM COMMAND BUFFER LENGTH
472E		454+#RUFCL	EQU		#CCMCL+2				MAX READ UNDER FORMAT COM LEN
4730		455+@TAS	EQU		#RUFCL+2				TERMINAL ATTRIBUTE SET ADDRESS
4731		456+#HITAS	EQU		@TAS+1				HIGHEST TAS INDEX IN SYSTEM
4733		458+@CSSTT	EQU		#HITAS+2				DISK C/S OF STT
4734		459+#HISTT	EQU		@CSSTT+1				NO ENTRIES IN STT(SW TERM TBL)
4736		461+@MLTAD	EQU		#HISTT+2				ADDRESS OF MLTA ADAPTER
		462+*							0 INDICATES NO MLTA ADAPTER
4738		463+@CKLST	EQU		@MLTAD+2				ADDRESS OF CHECK LIST
		465+*-----			COMMUNICATIONS MANAGEMENT				ECB'S -----*
4739		466+\$CMECB	EQU		@CKLST+1				ECB FOR POST OF CM
473C		467+\$CMFM	EQU		\$CMECB+3				FREEMAIN POST OF CM
4740		468+@ANYTP	EQU		\$CMFM+4				ADDRESS OF COMMON TP FOR GETMAIN
4742		469+@INVPL	EQU		@ANYTP+2				ADDRESS OF INV PL TP FOR GETMAIN
4744		470+ERTIME	EQU		@INVPL+2				AUTO ERP RECOVERY TIME
		472+*-----			COMMUNICATIONS MANAGEMENT				RESERVED AREA -----*
4743		473+\$CMRV2	EQU		@INVPL+1				START OF 2 BYTE RESERVED AREA
		475+*			PROGRAM REQUEST/ALLOCATION DUMMY TUB				CHAIN POINTER
47AD		476+@DTUBQ	EQU		CORCNT+2				START ADDRESS OF DUMMY TUB'S
47AF		477+#RUFAD	EQU		@DTUBQ+2				ADDITIONAL DATA FOR PRUF'S.
47B1		478+TNTATT	EQU		#RUFAD+2				ATT LOCATION FOR TNT MOVEOUT

\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

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47B3 479+$RESER EQU TNTATT+2 RESERVE AREA.

481+*----- BSCC COMMUNICATIONS AREA -----*

47B4 483+$CSFM EQU $RESER+1 FREEMIAN ECB
47B7 484+$CSECB EQU $CSFM+3 OP END AND NEW REQUEST ECB
47BA 485+#CONSD EQU $CSECB+3 OP END COUNT FOR LINES 3 AND 4
47BC 486+@CSNRQ EQU #CONSD+2 NEW REQUEST QUEUE
47BE 487+@CSTCB EQU @CSNRQ+2 ADDRESS OF BSCC TCB
47C0 488+#CSERP EQU @CSTCB+2 ADDRESS OF LCB IN ERROR RECOVERY
47C2 489+@CLB#1 EQU #CSERP+2 ADDRESS OF FIRST BSCC LCB
47C6 490+POLTIM EQU @CLB#1+4 POLL TIME FOR CS
47C7 491+SVLOOP EQU POLTIM+1 SAVE POLL LOOP COUNT FOR CS
47CA 492+WAITIM EQU SVLOOP+3 WAIT TIME FOR CS
47CB 493+#MATST EQU WAITIM+1 LOGICAL ATR START OF BSCC
47CC 494+#MATED EQU #MATST+1 LOGICAL ATR END OF BSCC
47CD 495+#MATX3 EQU #MATED+1 REAL ATR START OF XIENT AREA 3

497+*----- DIRECTORY ADDRESSES -----*
498+*--INDIVIDUAL FIELDS ARE VALID ONLY IF A PROGRAM STATEMENT DESIGNATED--*
499+*--THAT UNIT AS ITS LOCATION, OTHERWISE THE FIELDS ARE LEFT AS ZEROES--*
500+*-----*

47CF 502+CSPKR1 EQU #MATX3+2 C/S OF DIRECTORY ON UNIT R1
47D1 503+CSPKF1 EQU CSPKR1+2 C/S OF DIRECTORY ON UNIT F1
47D3 504+CSPKR2 EQU CSPKF1+2 C/S OF DIRECTORY ON UNIT R2
47D5 505+CSPKF2 EQU CSPKR2+2 C/S OF DIRECTORY ON UNIT F2

507+*----- SAVE AREAS FOR THE DISPLAY TRANSIENTS -----*
47D7 508+$CPIAR EQU CSPKF2+2 IAR
47D9 509+$CPXR1 EQU $CPIAR+2 TUB,TNT,OR FSB
47DB 510+$CPDTF EQU $CPXR1+2 DTF
47DC 511+$CPUSE EQU $CPDTF+1 PROGRAM USE COUNT SAVE FIELD

513+*----- CCP TRACE, AUTO ERP, TNT MOVEOUT-----*

47DD 515+$FLGD EQU $CPUSE+1 FOURTH SYSTEM LEVEL FLAG BYTE
0001 516+#BIT7 EQU BIT7
0002 517+#DDRUN EQU BIT6 $CCPDD IS PRINTING TRACE
0004 518+#NOPST EQU BIT5 SKIP FREEMAIN POST OF CM TASK
0008 519+#CPALC EQU BIT4 $CCPDUMP FILE HAS BEEN ALLOCATED
0010 520+#PRQIP EQU BIT3 PROGRAM REQUEST Q IN PROCESS
0020 521+#AERPS EQU BIT2 AUTO ERP SUPPORTED
0040 522+#AERPA EQU BIT1 AUTO ERP ACTIVE
0080 523+TNTOUT EQU BIT0 1--TNT MOVE-OUT SUPPORTED
47DF 524+$CCTR@ EQU $FLGD+2 ADDRESS OF CCP TRACE INTERCEPT
47E0 525+$CCTR# EQU $CCTR@+1 2K BLOCKS IN TRACE REQUEST

47E2 527+@AERPQ EQU $CCTR#+2 Q OF TUBS FOR AUTO ERP

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\$CC4#2 EQUATES -- CCP COMMUNICATIONS AREA

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	17
		47E4	529+	#DPEND EQU	@AERPQ+2				CC/HH @ OF END OF \$CCPDUMP
			531+*						*
			532+*	THIS AREA IS CS'S MOVE TRANSLATE AREA					*
			533+*						*
47E6		534+	CS#MVL EQU	#DPEND+2					BSCC MOVE PARAMETER
0000		535+	CS#TRL EQU	*					BSCC TRANSLATE PARAMETER LIST
		47FF	537+	\$CCEND EQU	X'47FF'				END OF \$CCCOM

\$CC4#2 EQUATES -- TASK CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	18
			539	*	\$ETCB				CCP00267
			540	+	*****				
			541	+	EQUATES FOR THE CCP TCB EXTENSION				*
			542	+	*****				
	0000	543	+	TCBCAL	EQU 0	OCC CANCEL WHILE TCB IN ALLOC			
		544	+	*	CCP BIT INDICATORS APPEARING IN FIELDS IN THE STANDARD TCB.				
		545	+	*	BIT EQUATES FOR TCBID.				
	00FF	546	+	TCBWID	EQU B'11111111'	SYSTEM WAIT TASK ID			
		548	+	*	BIT EQUATES FOR TCBFG1.				
	0080	549	+	TCBUSR	EQU B'10000000'	CCP USER TASK			
	0004	550	+	TCBNCL	EQU B'00000100'	CANCEL NOT ALLOWED			
		551	+	**	TCBUSR+TCBNCL = CCP SYSTEM TASK				
		553	+	*	BIT EQUATES FOR TCBFG2.				
	0080	554	+	TCBTRC	EQU B'10000000'	TERMINATION CALL OF CLOSE			
		556	+	*	BIT EQUATES FOR TCBDS1.				
	0040	557	+	TCBSUS	EQU B'01000000'	WAIT INDICATOR FOR SUSPENDED TCB			
	0020	558	+	TCBTRM	EQU B'00100000'	TCB IS IN CCP TERMINATION			
		560	+	*	FIELDS OVERLAYING DSM TCB FIELDS.				
	002B	561	+	TCBCMP	EQU X'2B'	TCBEJC - USER TERMINATION CODE			
	0064	563	+	TCB@AS	EQU X'64'	NPNAME-4 PROG APPENDED STORAGE @			
	0065	564	+	TCBPAS	EQU TCB@AS+1	SIZE (X256) OF PAS			
	0066	565	+	TCBFDT	EQU TCBPAS+1	SIZE (X256) OF LARGEST FDT			
	0068	566	+	TCBINQ	EQU TCBFDT+2	Q OF TUBS WITH DATA FOR ACCEPT			
	00A7	568	+	TCBIR	EQU X'A7'	NPSCH-1 XIENT AREA IAR SAVE FLD			
	00A9	569	+	TCBPR	EQU TCBIR+2	TRANSIENT AREA PMR SAVE FIELD			
	00AB	570	+	TCBX2	EQU TCBPR+2	TRANSIENT AREA REG 2 SAVE FIELD			
	00AD	571	+	TCBX1	EQU TCBX2+2	TRANSIENT AREA REG 1 SAVE FIELD			
	00AE	573	+	TCBDMG	EQU TCBX1+1	CCP INTERNAL FLAGS			
	0080	574	+	TCBRUF	EQU B'10000000'	PRUF PROGRAM ACTIVE			
	0040	575	+	TCBKRQ	EQU B'01000000'	CONSOLE WAS PROGRAM REQUESTOR			
	0020	576	+	TCBALC	EQU B'00100000'	TASK IS IN ALLOCATE			
	0010	577	+	TCBNEP	EQU B'00010000'	TASK IS A NEVER-ENDING-PROGRAM			
	0008	578	+	TCBCM	EQU B'00001000'	COMMUNICATIONS MANAGEMENT ID			
	0004	579	+	TCBMTS	EQU B'00000100'	TASK IS A MULTI-TERM-SERVICER			
	0002	580	+	TCBEMG	EQU B'00000010'	END MSG IS WANTED BY TERMINAL			
	0001	581	+	TCBSHQ	EQU B'00000001'	SHUTDOWN COMMAND HAS BEEN KEYED			
		583	+	*	END OF CCP PROGRAM LEVEL TCB(CM TASK).				
		585	+	*	BEGINNING OF CCP EXTENSION FOR TCB (ALL CCP TASKS EXCEPT CM)				
		586	+	*	CCP BITS WITHIN TCBEBC				
	0001	587	+	TCBACW	EQU X'01'	THIS TASK AT ACCEPT INPUT WAIT			
		588	+	*					
	00C4	589	+	TCBPL	EQU X'C4'	NPRCCP-39 TP PARAMETER LIST			
	00D6	590	+	TCBPLE	EQU TCBPL+18	END OF PARM LIST			
	00D8	591	+	TCBXQ	EQU TCBPLE+2	CCP CHAIN OF WAITING TASKS			
	00D8	592	+	TCBWK	EQU TCBXQ	WORK FIELD			
	00DA	593	+	TCBTUB	EQU TCBXQ+2	OWNED TUB CHAIN START POINT			

\$CC4#2 EQUATES -- TASK CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	19	
		00DB	594+	TCBECB EQU	TCBTUB+1				INTERNAL ECB FOR CCP - START	
		00DE	595+	TCBIIC EQU	TCBECB+3				INVITE INPUT COUNT FOR USERS	
		00DF	596+	TCBMAX EQU	TCBIIC+1				MAX NUMBER OF TERMINALS	
		00E0	597+	TCBATR EQU	TCBMAX+1				CURRENT TERMINAL COUNT	
		00E1	599+	TCBURA EQU	TCBATR+1				UNIT RECORD ALLOCATE MASK	
		0080	600+	TCBPRS EQU	B'10000000'				PRINTER IS SHARED	
		0020	601+	TCB501 EQU	B'00100000'				PROGRAM USES 2501	
		0010	602+	TCBPRT EQU	B'00010000'				PROGRAM USES LINE PRINTER	
		0008	603+	TCB142 EQU	B'00001000'				PROGRAM USES 1442	
		0004	604+	TCBMFU EQU	B'00000100'				PROGRAM USES MFCU OR MFCM	
		0040	605+	TCB741 EQU	B'01000000'				3741 USED AS UNIT RECORD DEVICE	
		00E3	607+	TCBFBM EQU	TCBURA+2				FILE BIT MASK, DISPLACEMENT	
		00E4	608+	TCBUSE EQU	TCBFBM+1					
		00E5	610+	TCBOFG EQU	TCBUSE+1				CCP INTERNAL FLAGS	
		0080	611+	TCBSRT EQU	B'10000000'				SORT PGM ACTIVE	
		0040	612+	TCBCHN EQU	B'01000000'				TASK WAS REQUESTED VIA CHAIN OP	
		0020	613+	TCBLOW EQU	B'00100000'				LOW PRIORITY TASK REQUEST	
			614+*	EQU	B'00010000'					
			615+*	EQU	B'00001000'					
			616+*	EQU	B'00000100'					
			617+*	EQU	B'00000010'					
			618+*	EQU	B'00000001'					
		00E7	620+	TCBPCB EQU	TCBOFG+2				ADDR OF REQUIRED PORT.	
		00E9	621+	TCBXR@ EQU	TCBPCB+2				ADDR OF CCP XIENT RIB BYTE.	
		00EB	622+	TCBRV EQU	TCBPL+39				RESERVED AREA FROM 'TCBXR@'	
			624+	*****						
			625+*	RESIDENT OPEN CLOSE ATT SAVE AREA					*	
			626+	*****						
		010D	627+	TCBATS EQU	X'010D'				START OF SAVE AREA	
		010E	628+	TCBEPL EQU	TCBATS+1				E.P.L. ATTS	
		0112	629+	TCBROC EQU	TCBEPL+4				RESIDENT OPEN/CLOSE ATTS	
		0116	630+	TCBFSA EQU	TCBROC+4				F.S.A. ATTS	
			632+	*****						
			633+*	THE FOLLOWING REDEFINES THE PARM-LIST AREA FOR THE					*	
			634+*	COMMUNICATIONS SCHEDULAR (\$CC4CS). DEFINES THE ATTS					*	
			635+*	THAT MAPS THE SIOC DM/IOCS/IH. (4K-MAX)					*	
			636+	*****						
		00C4	637+	TCBSAD EQU	TCBPL				DISPLACEMENT FOR SIOC DM ATR	
		00C6	638+	TCBSAT EQU	TCBSAD+2				ATRS VALUES TO MAP SIOC DM.	
		00C8	639+	TCBSAS EQU	TCBSAT+2				ATRS TO RESTORE \$CC4#M ATRS.	
		00CA	640+	TCBSAV EQU	TCBSAS+2				ATRS SAVE AREA FOR \$@TRAP.	
			642+	*****						
			643+*	THE FOLLOWING REDEFINES TCBIIC, TCBMAX, TCBATR, TCBURA,					*	
			644+*	TCBFBM, TCBUSE, AND TCBOFG FOR THE COMMAND PROCESSOR TCB					*	
			645+*	ONLY (SUCH FIELDS ARE MEANINGFUL ONLY FOR USER TCB'S).					*	
			646+*	EACH OF THE FOLLOWING FOUR FIELDS IS 2 BYTES LONG.					*	
			647+	*****						
		00DF	648+	#CPDAT EQU	TCBMAX				TIMES CP TASK RECEIVED DATA	
		00E1	649+	#PGMLD EQU	TCBURA				# OF USER PGM LOADS DONE	

\$CC4#2 EQUATES -- TASK CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	20
		00E3	650+#MRTAT	EQU	TCBFBM				
		00E5	651+#TCACC	EQU	TCBOFG				

PGM REQS ATTACHED TO ACTIVE MRTS
TASK CHAIN REQUESTS ACCEPTED

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654 *          $EDSM NP-Y,NC-Y,SP-N                      CCP00269
655+*****
656+*
657+* COMMUNICATIONS AREA FOR A PROGRAM LEVEL           *
658+*
659+*****
660+*          START OF TASK CONTROL BLOCK
0000 661+TCBB EQU 0
0001 662+TCBNXT EQU TCB+1 2 @ OF NEXT TCB ON QUEUE
0002 663+TCBPRI EQU TCBNXT+1 1 TASK PRIORITY
0003 664+TCBID EQU TCBPRI+1 1 TASK ID

666+*****
667+*
668+* NAME, PRIORITY AND ID OF THE SYSTEM TCBS:
669+*
670+* NAME..... PRIORITY... ID.*..
671+* CONSOLE MANAGEMENT TASK F0 10
672+* SYSTEM ERROR TASK E0 20
673+* SPOOL SUPPORT TASK D0 30
674+* SPOOL TASK CE 32
675+* PROGRAM LEVEL 2 TASK C0 40
676+* PROGRAM LEVEL 1 TASK 60 A0
677+* SYSTEM WAIT TASK 01 FF
678+*
679+* *-ID CHARACTERS 'A-Z' AND '0-9' ARE RESERVED FOR CCP TASKS *
680+*****
    
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0004 682+TCBFG1 EQU TCBID+1 1 FLAG BITS
683+* X'80'-CCP TASK
684+* X'40'-NON-CANCELABLE SYSTEM TAS
685+* X'08'-3 OPTION ONLY HALT PENDIN
686+* X'04'-CANCEL NOT ALLOWED
687+* X'02'-CANCEL DEFERRED
688+* X'01'-EOJ IN PROCESS
    
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0005 690+TCBFG2 EQU TCBFG1+1 1 FLAG BITS
691+* X'01'-ATT LOAD REQUESTED
    
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0006 693+TCBDS1 EQU TCBFG2+1 1 DISPATCHABILITY BITS
694+* X'80'-NON-DISPATCHABLE
695+* X'40'-SUSPENDED BY CCP
696+* X'20'-CCP TERMINATE IN PROGRESS
697+* X'02'-WAITING FOR RESOURCES
698+* X'01'-WAITING FOR CORE
    
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0007 700+TCBDS2 EQU TCBDS1+1 1 DISPATCHABILITY BITS
    
```

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE 22
				702+***** PROGRAM REQUEST BLOCK *****			
0009		703+TCBRBP	EQU	TCBDS2+2	2	@ OF ACTIVE REQUEST BLOCK	
000B		704+TCBRBF	EQU	TCBRBP+2	2	REQUEST BLOCK FLAGS	
000D		705+TCBTCB	EQU	TCBRBF+2	2	@ OF ASSOCIATED TCB	
000F		706+TCBIAR	EQU	TCBTCB+2	2	PROGRAM LEVEL IAR	
0011		707+TCBPMR	EQU	TCBIAR+2	2	PROGRAM LEVEL PMR	
0013		708+TCBPSR	EQU	TCBPMR+2	2	PROGRAM LEVEL PSR	
0015		709+TCBXR2	EQU	TCBPSR+2	2	PROGRAM LEVEL XR2	
0017		710+TCBXR1	EQU	TCBXR2+2	2	PROGRAM LEVEL XR1	
0019		711+TCBARR	EQU	TCBXR1+2	2	PROGRAM LEVEL ARR	
		713+*		END OF WAIT TASK TCB			
001C		715+TCBCSN	EQU	TCBARR+3	3	C/S/N FOR PROGRAM	
001D		716+TCBRIB	EQU	TCBCSN+1	1	RIB VALUE	
001E		717+TCBRSV	EQU	TCBRIB+1	1	RIB SAVE AREA	
0024		718+TCBRS1	EQU	TCBRSV+6	6	RESERVED	
		719+*****		END OF PROGRAM REQUEST BLOCK *****			
0026		721+TCBMAP	EQU	TCBRS1+2	2	@ OF CORE MAP FOR ASSIGN/FRE	
0028		722+TCBTIM	EQU	TCBMAP+2	2	@ OF TIMER QUEUE ELEMENT	
002A		723+TCBEJE	EQU	TCBTIM+2	2	EOJ EXIT @	
002B		724+TCBEJC	EQU	TCBEJE+1	1	EOJ COMPLETION CODE	
		725+*				X'80'-DUMP REQUESTED	
		726+*				--- X'40'-SECONDARY CODE SPECIFIED	
		727+*		USER CODES		X'20'-HALT/SYSLOG(2,3 OPTION)	
		728+*				--- X'10'-OCC CANCEL	
		729+*					
		730+*				--- X'08'-SECONDARY CODE SPECIFIED	
		731+*		SYSTEM CODES		X'04'-RESERVED	
		732+*				X'02'-INSUFFICIENT CORE STORAGE	
		733+*				--- X'01'-PROGRAM CHECK	
		734+*				X'00'-NORMAL COMPLETION	
002C		736+TCBEJS	EQU	TCBEJC+1	1	EOJ SECONDARY COMPLETION COD	
		737+*				- SYSTEM SECONDARY CODES -	
		738+*				X'01'-INVALID ENQU SVC	
		739+*				X'02'-INVALID DEQU SVC	
		740+*				X'03'-I/O PROTECT VIOLATION	
		741+*				X'04'-LOADING BELOW NPBEG	
		742+*				X'05'-LOADING ABOVE NPEND	
		743+*				X'06'-INVALID SETON/SETOF SVC	
		744+*				X'07'-EXIO TO INVALID DEVICE	
002E		746+TCBRTC	EQU	TCBEJS+2	2	@ OF RELATED TCB FOR SPOOL	
004E		747+TCBATT	EQU	TCBRTC+32	32	ATT SAVE AREA	
		748+*		BYTES 25 THRU 32 OF THE ATT SAVE AREA ARE DEFINED AS FOLLOWS:			
0047		749+TCBHAV	EQU	TCBATT-7	1	RESOURCE(S) OWNED	
		750+*				X'01'-SCHEDULER INTERLOCK	
		751+*				X'02'-SPOOL FILE INTERLOCK	
		752+*				X'04'-SYSLOG BUFFER INTERLOCK	
004A		754+TCBRS3	EQU	TCBATT-4	3	RESERVED	
004C		755+TCBPCA	EQU	TCBATT-2	2	PROG CHECK ADDRESS REG	
004E		756+TCBPCS	EQU	TCBATT	2	PROG CHECK STATUS REG	

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	23
			758+*		START OF PROGRAM LEVEL COMM AREA				
		004F	759+NPPRTZ	EQU	TCBATT+1	1			PRINTER SIZE
		0050	760+NPLPSZ	EQU	NPPRTZ+1	1			LEFT TRACTOR PAGE SIZE
		0051	761+NPRPSZ	EQU	NPLPSZ+1	1			RIGHT TRACTOR PAGE SIZE
		0052	762+NPHALT	EQU	NPRPSZ+1	1			HALT/SYSLOG
			763+*						X'08'-NO HALT DISPLAY
			764+*						OFF-YES
			765+*						ON-NO
			766+*						X'04'-DEFAULT MODE
			767+*						X'03'-
			768+*						00-0 OPTION => SEVERITY=1
			769+*						01-1 OPTION => SEVERITY=2
			770+*						10-2 OPTION => SEVERITY=4
			771+*						11-3 OPTION => SEVERITY=8
		005A	773+NPJOB	EQU	NPHALT+8	8			JOB NAME
		0062	774+NPSTEP	EQU	NPJOB+8	8			STEP NAME
		0068	775+NPNAME	EQU	NPSTEP+6	6			PROGRAM NAME
		006A	776+NPSPCM	EQU	NPNAME+2	2			@ OF SPOOL COMM RELATED TO T
		006B	777+NPEOJ	EQU	NPSPCM+1	1			END OF JOB BYTE
			778+*						X'80'-RJE ACTIVE/RETURN TO NPBE
			779+*						X'40'-NO IPL DISK ERRORS
			780+*						X'20'-LIB MAINT BIT
			781+*						X'10'-OCC DUMP TAKEN
			782+*						X'08'-QUIESCE IN PROCESS AT EJ
			783+*						X'01'-DO NOT CLOSE DTFS AT EOJ
		002A	785+NPEOJ@	EQU	TCBEJE				END OF JOB RETURN @
		006C	786+NPSPOL	EQU	NPEOJ+1	1			RESERVED FOR SPOOL
			787+*						X'80'-TRAPPING I/O REQUEST
			788+*						X'40'-SPOOL SUPPORTED THIS LEVE
			789+*						X'20'-ON - END-OF-JOB
			790+*						OFF - END-OF-STEP
			791+*						X'10'-START SPOOL REQUESTED
			792+*						X'08'-STOP SPOOL REQUESTED
		006E	794+NPDTF@	EQU	NPSPOL+2	2			@ OF LAST OPENED DTF
		0071	795+NPBEG	EQU	NPDTF@+3	3			REAL PROGRAM BEGIN @
		0074	796+NPEND	EQU	NPBEG+3	3			REAL PROGRAM END @
		0076	797+NPBEG	EQU	NPEND+2	2			LOGICAL PROGRAM BEGIN @
		0078	798+NPRLF	EQU	NPBEG+2	2			PROGRAM RELOCATION FACTOR
		007A	799+NPCYL	EQU	NPRLF+2	2			C/S OF FIRST LOAD (OVERLAYS)
		007C	800+NPOLIB	EQU	NPOLIB+2	2			C/S OF PROG OBJ LIB
		007E	801+NPORLF	EQU	NPOLIB+2	2			OVERLAY RELOCATION FACTOR
		0080	802+NPTXT	EQU	NPORLF+2	2			OVERLAY TEXT @
			803+*						END OF SPOOL SUPPORT COMMON AREA
		0081	804+NPQ	EQU	NPTXT+1	1			PROGRAM Q BYTE
		0082	805+NPUPSI	EQU	NPQ+1	1			UPSI SWITCH
		0083	806+NPATTR	EQU	NPUPSI+1	1			PROGRAM ATTRIBUTE BYTES
			807+*						X'80'-DEDICATED PROGRAM RUNNING
		0089	808+NPDATE	EQU	NPATTR+6	6			PROGRAM DATE
		008A	809+NPSTP#	EQU	NPDATE+1	1			STEPNAME COUNTER
		008D	810+NPSYSI	EQU	NPSTP#+3	3			SYSIN INDICATOR
			811+*						C/S/DEVICE INFO
			812+*						X'01'-MFCU1
			813+*						X'02'-MFCU2

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	24
			814+*			X'83'	-MFCM1	-	
			815+*			X'84'	-MFCM2	-	8X-80 COL
			816+*			X'85'	-1442	-	DEVICES
			817+*			X'86'	-2501	-	
			818+*			X'10'	-CONSOLE/KYBD		
			819+*			X'20'	-RESERVED		
			820+*			X'21'	-RESERVED		
	008E	822+	NPSCH1 EQU	NPSYSI+1	1	READER/INTERPRETER SWITCHES			
			823+*			X'80'	-// DATE RECEIVED(INTRA)		
			824+*			X'40'	-// COMPILE RECEIVED		
			825+*			X'20'	-// SWITCH RECEIVED		
			826+*			X'10'	-PROCEDURE		
			827+*			X'08'	-OVERRIDE		
			828+*			X'04'	-INTRA STEP MODE		
			829+*			X'02'	-INTER STEP MODE		
			830+*			X'01'	-IPL MODE		
	008F	832+	NPSCH2 EQU	NPSCH1+1	1	SCHEDULER SWITCHES			
			833+*			X'80'	-CONTINUATION		
			834+*			X'40'	-UTIL CTL CARDS IN JSWA		
			835+*			X'20'	-SLASH AMPERSAND READ		
			836+*			X'10'	-FILE STMT RECEIVED		
			837+*			X'08'	-EOS HALT INDICATOR		
			838+*				ON-ISSUE EOS MESSAGE		
			839+*				OFF-DON'T ISSUE EOS MSG		
			840+*			X'04'	-FLUSH		
			841+*			X'02'	-IMMEDIATE CANCEL		
			842+*			X'01'	-CONTROLLED CANCEL		
	0090	844+	NPSCH3 EQU	NPSCH2+1	1	SCHEDULER SWITCHES			
			845+*			X'80'	-TAG SORT REQUIRED(5444)		
			846+*			X'40'	-AVAILABLE		
			847+*			X'20'	-SOURCE REQUIRED		
			848+*			X'10'	-LOG STATUS		
			849+*				ON-LOG TO CRT		
			850+*				OFF-LOG TO 3284 OR 1403		
			851+*			X'08'	-MVF FILE ALLOCATED		
			852+*			X'04'	-ADDITIONAL PROC STMT		
			853+*			X'02'	-1ST 'LOAD/RUN'JOB READ		
			854+*			X'01'	-PGM LEVEL		
			855+*				OFF-LEVEL 1		
			856+*				ON-LEVEL 2		
	0090	858+	NPLEVL EQU	NPSCH3					
	0091	859+	NPOBJQ EQU	NPSCH3+1	1	OBJECT DECK OUTPUT Q			
	0092	860+	NPBPSD EQU	NPOBJQ+1	1	AVAIL STATUS OF SYSIN DEVICE			
			861+*			X'80'	-MFCU		
			862+*			X'40'	-MFCM		
			863+*			X'20'	-1442		
			864+*			X'10'	-2501		
			865+*			X'08'	-CRT		
			866+*			X'04'	-RESERVED		
			867+*			X'02'	-RESERVED		
			868+*			X'01'	-NESTED PROCEDURE		

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	25
		0093	870+NPSCH4	EQU	NPBPSD+1	1	SCHEDULER SWITCHES		
			871+*				X'80'-OPERATION BIT		
			872+*				X'40'-// IMAGE RECEIVED		
			873+*				X'20'-// PRINTER RECEIVED		
			874+*				X'10'-F1 NEEDED FOR ALLOC		
			875+*				X'08'-R1 NEEDED FOR ALLOC		
			876+*				X'04'-F2 NEEDED FOR ALLOC		
			877+*				X'02'-R2 NEEDED FOR ALLOC		
			878+*				-TAPE DTFS ENCOUNTERED IN		
			879+*				RESOURCE ALLOCATE		
			880+*				X'01'-EOJ SCHED BIT		
		0094	882+NPSCH5	EQU	NPSCH4+1	1	SCHED SWITCHES		
			883+*				X'80'-ROLL-IN PENDING		
			884+*				X'40'-ROLL-OUT REQUESTED		
			885+*				X'20'-ROLL-OUT HANDLED		
			886+*				X'10'-I-TYPE PROGRAM EXECUTING		
			887+*				X'08'-RESERVED FOR CCP		
			888+*				X'04'-TAPE FILE CARD REC'D		
			889+*				X'02'-CORE ROLLED OUT		
			890+*				X'01'-UNIT RECORD INDICATOR FOR		
			891+*				INQUIRY		
		0095	893+NPSCH6	EQU	NPSCH5+1	1	SCHEDULER SWITCHES		
			894+*				X'80'-LOAD * RUNNING THIS LEVEL		
			895+*				X'40'-TEMP END-OF-STEP HALT		
			896+*				ON-ISSUE EOS MESSAGE		
			897+*				OFF-DON'T ISSUE EOS MSG		
			898+*				X'20'-CHANGE LINE 1 TO 2		
			899+*				X'10'-CHANGE LINE 2 TO 1		
			900+*				X'08'-MFCU FILE PREV OPENED		
			901+*				X'04'-/. READ		
			902+*				X'02'-PROCESSING MODE		
			903+*				ON-JOB MODE		
			904+*				OFF-STEP MODE		
			905+*				X'01'-MFCU FILE PREV OPENED		
		0096	907+NPSCH7	EQU	NPSCH6+1	1	SCHED SWITCHES		
			908+*				X'80'-JOB CARD REC'D		
			909+*				X'40'-RUN CARD REC'D		
			910+*				X'20'-READ-AHEAD DONE		
			911+*				X'10'-EJ TO BE HANDLED		
			912+*				X'08'-FLUSH IS COMPLETE		
			913+*				X'04'-DO NOT HALT IF ERROR		
			914+*				X'02'-FLUSH FROM 3 OPTION		
			915+*				X'01'-FLUSH FROM 2 OPTION		
		0097	917+NPSCH8	EQU	NPSCH7+1	1	SCHED SWITCHES		
			918+*				X'80'-TAG SORT FOR 5445		
			919+*				X'40'-CONSOLE IN USE BY DM		
			920+*				X'20'-VALID FILES CARDS REC'D		
			921+*				X'10'-SHARED I/O PROGRAM		
			922+*				X'08'-I OR B TYPE PROGRAM		
			923+*				X'04'-ALLOCATE UNSUCCESSFUL		
			924+*				X'02'-MAXIMUM REQUEST MET		
			925+*				X'01'-MINIMUM REQUEST MET		

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	26
		0098	927+	NPSCH9 EQU	NPSCH8+1	1			DISK LOG UNIT ID FOR EOJ/ DEALLOCATE
		0099	928+*						
			929+	NPSCHA EQU	NPSCH9+1	1			SCHEDULER SWITCHES
			930+*						X'80'-INAT TO INDS F1 SORT CON
			931+*						X'40'-SPLIT CYLINDER SUB ALLOC
			932+*						X'20'-CALL TAPE DLOG AT EJ
			933+*						X'10'-RESERVED
			934+*						X'08'-ACTIVE FILE ON T1
			935+*						X'04'-ACTIVE FILE ON T2
			936+*						X'02'-ACTIVE FILE ON T3
			937+*						X'01'-ACTIVE FILE ON T4
		009A	939+	NPSCHB EQU	NPSCHA+1	1			SCHEDULER BYTE
			940+*						X'80'-CHECKPOINT PGM EXECUTING
			941+*						X'40'-5445 FILE CARD PRESENT
			942+*						X'20'-DEFERRED ALLOCATE REQUEST
			943+*						X'10'-DISK DTFS ENCOUNTERED IN
			944+*						RESOURCE ALLOCATE
			945+*						X'08'-NEW FILE ALLOCATED ON D1
			946+*						X'04'-NEW FILE ALLOCATED ON D2
			947+*						X'02'-NEW FILE ALLOCATED ON D3
			948+*						X'01'-NEW FILE ALLOCATED ON D4
		009B	950+	NPMANT EQU	NPSCHB+1	1			LIBRARY MAINTENANCE
			951+*						X'80'-SYSPUNCH INDICATOR
			952+*						X'40'-RUN \$\$OXRF ON R1
			953+*						X'20'-RUN \$\$OXRF ON F1
			954+*						X'10'-RUN \$\$OXRF ON R2
			955+*						X'08'-RUN \$\$OXRF ON F2
			956+*						X'04'-CONTROL CARD FOUND
			957+*						X'02'-UNUSED
			958+*						X'01'-PICKEREL RUNNING THIS LVL
		009D	960+	NPSRAA EQU	NPMANT+2	2			@ OF SCHED READ-AHEAD AREA
		009E	961+	NPMPFL EQU	NPSRAA+1	1			MATRIX PRINTER FORMS LENGTH
		009F	962+	NPLNK@ EQU	NPMPFL+1	1			LEFT BYTE OF LKED START @
		00A0	964+	NPUNCH EQU	NPLNK@+1	1			SYSPUNCH ID
			965+*						X'01'-MFCU1
			966+*						X'02'-MFCU2
			967+*						X'81'-1442
			968+*						X'82'-MFCM1 8X-80 COL DEVICE
			969+*						X'84'-MFCM2
		00A1	971+	NPSYSP EQU	NPUNCH+1	1			SYSPRINT ID
			972+*						X'01'-1403
			973+*						X'02'-3284
		00A2	975+	NPUTIL EQU	NPSYSP+1	1			UTILITY INTERLOCK
			976+*						X'80'-X'08'-F2 . ALLOCATED
			977+*						X'40'-X'04'-R2 . OR
			978+*						X'20'-X'02'-F1 . IN
			979+*						X'10',X'01'-R1 . USE
		00A3	981+	NPUTIL1 EQU	NPUTIL+1	1			TAPE INTERLOCK
			982+*						X'80'-T1 IN USE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	27
			983+*						X'40'-T2 IN USE
			984+*						X'20'-T3 IN USE
			985+*						X'10'-T4 IN USE
			986+*						X'08'-LIBRARY USAGE INTERLOCK
			987+*						X'04'-OPEN/CLOSE/EOV HAS SCHED
			988+*						INTERLOCK
			989+*						X'02'-ALLOCATE HAS SCHED INTERL
	00A4	991+NPUTL2	EQU		NPUTL1+1	1	5445		INTERLOCK
		992+*							X'80'-X'08'-D4 . ALLOCATED
		993+*							X'40'-X'04'-D3 . OR
		994+*							X'20'-X'02'-D2 . IN
		995+*							X'10'-X'01'-D1 . USE
	00A6	997+NPSCHC	EQU		NPUTL2+2	2			@ OF START OF TAPE F1S (SD)
	00A8	998+NPSCHD	EQU		NPSCHC+2	2			@ OF START OF 5444 F1S (SD)
	00AA	999+NPSCHE	EQU		NPSCHD+2	2			@ OF START OF 5445 F1S (SD)
	00AC	1000+NPSCHF	EQU		NPSCHE+2	2			@ OF START OF UNIT RECORD F1
	00AE	1001+NPSCHG	EQU		NPSCHF+2	2			@ OF NEXT AVAIL F1 (SD)
	00B0	1002+NPOCAF	EQU		NPSCHG+2	2			@ OF DM A/F SPACE
	00B1	1003+NPSPLZ	EQU		NPOCAF+1	1			SYSPRINT LINE SIZE
	00B2	1004+NPSPFL	EQU		NPSPLZ+1	1			SYSPRINT FORMS LENGTH
	00B2	1005+NPECOM	EQU		NPSPFL	-			END OF PROG LEVEL COMM AREA

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1007+*****
1008+*
1009+*   SYSTEM COMMUNICATIONS AREA   *
1010+*
1011+*****
    
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0000 1013+NCC   EQU   0   *
0001 1014+NCPL1 EQU   NCC+1   2   @ OF PROG LEVEL 1 COMM
0003 1015+NCPL2 EQU   NCPL1+2   2   @ OF PROG LEVEL 2 COMM
0005 1016+NCTCB EQU   NCPL2+2   2   @ OF HIGHEST PRIORITY TCB
0007 1017+NCXTAB EQU   NCTCB+2   2   @ OF XSNT SCHEDULER TABLE
0009 1018+NC@NEW EQU   NCXTAB+2   2   @ OF NEW AND OLD
      1019+*   OLD=@ OF ACTIVE TCB
000A 1020+NCDSP1 EQU   NC@NEW+1   1   TRACE SUPERVISION BITS
0080 1021+NCTRCA EQU   X'80'   X'80'-TRACE ACTIVE
0040 1022+NCTRCS EQU   X'40'   X'40'-TRACE SUSPENDED
0020 1023+NCTCCP EQU   X'20'   X'20'-CCPTRACE TYPE-CCP
0010 1024+NCTALL EQU   X'10'   X'10'-CCPTRACE TYPE-ALL
0008 1025+NCTRDK EQU   X'08'   X'08'-CCPTRACE TO DISK

000B 1027+NCDSP2 EQU   NCDSP1+1   1   TASK SUPERVISION BITS
      1028+*   X'08'-TASK(S) WAITING FOR
      1029+*   RESOURCES
      1030+*   X'04'-TRANSIENT AREA NOT
      1031+*   REFRESHABLE
      1032+*   X'02'-HIGHER PRIORITY TASKS ARE
      1033+*   WAITING ON TRANSIENT AREA
      1034+*   X'01'-TASK(S) WAITING FOR CORE

000C 1036+NCSGEN EQU   NCDSP2+1   -   SYSTEM USAGE
      1037+*   X'80'-DO NOT UPDATE SIO CTRS
      1038+*   X'02'-SYSTEM MAINTENANCE
      1039+*   X'01'-SYSTEM GENERATION

000D 1041+NCAFML EQU   NCSGEN+1   1   ASIGN/FREE MASK LENGTH
0010 1042+NCSLOG EQU   NCAFML+3   3   SYSLOG INDICATOR C/S/DEV INF
      1043+*   X'00'-CONSOLE
      1044+*   X'80'-3284
      1045+*   X'40'-1403

0012 1047+NCSWRK EQU   NCSLOG+2   2   C/S OF SWA
0013 1048+NCSYSQ EQU   NCSWRK+1   1   Q OF SYSTEM PACK
0015 1049+NCOLIB EQU   NCSYSQ+2   2   C/S OF SYSTEM OBJECT LIB
001B 1050+NCDATE EQU   NCOLIB+6   6   SYSTEM DATE
001C 1051+NCSCH1 EQU   NCDATE+1   1   SCHEDULER SWITCHES
      1052+*   X'80'-LOG STATUS
      1053+*   ON-LOG TO CRT
      1054+*   OFF-LOG TO 1403 OR 3284
      1055+*   X'40'-SYSTEM DATE RECEIVED
      1056+*   X'10'-SKD INTERLOCK PL1
      1057+*   X'08'-SKD INTERLOCK PL2
      1058+*   X'04'-DATE FORMAT
      1059+*   OFF-MMDDY DOMESTIC
      1060+*   ON-DDMMYY WORLD TRADE
      1061+*   X'03'-5444 CONFIG
    
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ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	29
			1062+*						00-F1,R1
			1063+*						01-F1,R1,R2
			1064+*						11-F1,R1,R2,F2
001D		1066+NCSMV1	EQU	NCSCH1+1	1	DM/SKD SWITCHES			
		1067+*				X'80'-IPL SUCCESSFUL			
		1068+*				X'40'-INPUT FOR I TYPE			
		1069+*				X'20'-SYSLOG INTERLOCK-P1			
		1070+*				X'10'-SYSLOG INTERLOCK-P2			
		1071+*				- X'08'-OFFLINE MVF ON R1			
		1072+*				- X'04'-OFFLINE MVF ON R2			
		1073+*			PL 1	- X'02'-OTHER FILE ON R1			
		1074+*				- X'01'-OTHER FILE ON R2			
001E		1076+NCSMV2	EQU	NCSMV1+1	1	DM/SKD SWITCHES			
		1077+*				X'80'-SPOOL IS ACTIVE			
		1078+*				X'40'-SYSTEM IPL MODE			
		1079+*				X'20'-SPOOL SUPPORTED			
		1080+*				- X'08'-OFFLINE MVF ON R1			
		1081+*			PL 2	- X'04'-OFFLINE MVF ON R2			
		1082+*				- X'02'-OTHER FILE ON R1			
		1083+*				- X'01'-OTHER FILE ON R2			
001F		1085+NCSCH	EQU	NCSMV2+1	1	SKD BYTE			
		1086+*				X'80'-INQUIRY SUPPORTED			
		1087+*				X'40'-CCP SUPPORTED			
		1088+*				X'20'-TIMER SUPPORTED			
0021		1090+NCDSKQ	EQU	NCSCH+2	2	@ OF 5444 QUEUE			
0023		1091+NCDSK5	EQU	NCDSKQ+2	2	@ OF 5445 QUEUE			
0025		1092+NCTAPQ	EQU	NCDSK5+2	2	@ OF TAPE QUEUE			
0027		1093+NCURQ	EQU	NCTAPQ+2	2	@ OF FIRST UNIT RECORD QUEUE			
0029		1094+NCETQ@	EQU	NCURQ+2	2	@ OF SYSTEM ERROR TASK QUEUE			
002B		1095+NCCMTQ	EQU	NCETQ@+2	2	@ OF CONSOLE MGT COMM AREA			
002E		1097+NCRCSS	EQU	NCCMTQ+3	3	ROLL/OUT C/S/N			
002F		1098+NCCONF	EQU	NCRCSS+1	1	5445 AND TAPE CONFIG			
		1099+*				X'80'-RESERVED			
		1100+*				X'40'-RESERVED			
		1101+*				X'38' - 100 - D1			
		1102+*				101 - D1,D2			
		1103+*				110 - D1,D2,D3			
		1104+*				111 - D1,D2,D3,D4			
		1105+*				X'07' - 100 - T1			
		1106+*				101 - T1,T2			
		1107+*				110 - T1,T2,T3			
		1108+*				111 - T1,T2,T3,T4			
0030		1110+NCSCH3	EQU	NCCONF+1	1	SCHEDULER BYTE			
0031		1111+NCSCH4	EQU	NCSCH3+1	1	SCHEDULER BYTE			
0033		1112+NCRQE	EQU	NCSCH4+2	2	@ OF RQE TABLE			
0034		1113+NCEXTR	EQU	NCRQE+1	1	EXTRA BYTE			
0035		1114+NCSMV3	EQU	NCEXTR+1	1	5445 DM MVF INTERLOCK			
		1115+*				PGM LEVEL 1			
		1116+*				X'80'-MULTIVOLUME FILE ON D1			

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	30
			1117+*					X'40'-MULTIVOLUME FILE ON D2
			1118+*					X'20'-MULTIVOLUME FILE ON D3
			1119+*					X'10'-MULTIVOLUME FILE ON D4
			1120+*					X'08'-OTHER TYPE FILE ON D1
			1121+*					X'04'-OTHER TYPE FILE ON D2
			1122+*					X'02'-OTHER TYPE FILE ON D3
			1123+*					X'01'-OTHER TYPE FILE ON D4
		0036	1125+NCSMV4 EQU	NCSMV3+1	1	5445 DM MVF INTERLOCK		
			1126+*			PGM LEVEL 2		
			1127+*			X'80'-MULTIVOLUME FILE ON D1		
			1128+*			X'40'-MULTIVOLUME FILE ON D2		
			1129+*			X'20'-MULTIVOLUME FILE ON D3		
			1130+*			X'10'-MULTIVOLUME FILE ON D4		
			1131+*			X'08'-OTHER TYPE FILE ON D1		
			1132+*			X'04'-OTHER TYPE FILE ON D2		
			1133+*			X'02'-OTHER TYPE FILE ON D3		
			1134+*			X'01'-OTHER TYPE FILE ON D4		
		0037	1136+NCMVT1 EQU	NCSMV4+1	4	TAPE MFV SUPPORT		
		003B	1137+NCMVT2 EQU	NCMVT1+4	4	TAPE MFV SUPPORT		
		003F	1138+NCMVT3 EQU	NCMVT2+4	4	TAPE MFV SUPPORT		
		0043	1139+NCMVT4 EQU	NCMVT3+4	4	TAPE MFV SUPPORT		
		0048	1140+NCPRTB EQU	NCMVT4+5	2	@ OF 133-BYTE SYSLOG BUFR		
		0049	1141+NCCNFG EQU	NCPRTB+1	17	START OF 17-BYTE UR CONFIG		
		005A	1142+NCUTL1 EQU	NCCNFG+17	1	RESERVED FOR SPOOL		
			1143+*			X'80'-SPOOL USING D1		
			1144+*			X'40'-SPOOL USING D2		
			1145+*			X'20'-SPOOL USING D3		
			1146+*			X'10'-SPOOL USING D4		
		005B	1148+NCSIPT EQU	NCUTL1+1	1	SPOOL INPUT DEVICE		
		005C	1149+NCSVRT EQU	NCSIPT+1	1	SPOOL PRINT DEVICE		
		005D	1150+NCSPCH EQU	NCSVRT+1	1	SPOOL PUNCH DEVICE		
		005F	1151+NCSPVN EQU	NCSPCH+2	2	SUPERVISOR END @		
		0061	1152+NCPFKT EQU	NCSPVN+2	2	@ OF PROG FUNCTION KEY TABLE		
		0062	1153+NCMPSZ EQU	NCPFKT+1	1	MATRIX PRINTER SIZE		
		0063	1154+NCMPLC EQU	NCMPSZ+1	1	MATRIX PRINTER LINE COUNT		
		0065	1155+NCTMRQ EQU	NCMPLC+2	2	@ OF TIMER QUEUE		
		0065	1156+NCAEND EQU	NCTMRQ		LAST BYTE OF SCA		


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1158+*****
1159+*
1160+* COMMON EQUATES
1161+*
1162+*****
0004 1163+NCENTR EQU 4 'BRANCH TO 4'
0011 1164+NCSYS@ EQU X'0011' @ OF POINTER TO SYSTEM COMM
001A 1165+NCMSVA EQU X'001A' @ OF MFCU PERM HISTORY TABLE
002A 1166+NCTRAC EQU X'002A' @ OF POINTER TO TRACE TABLE
002E 1167+NCTCB@ EQU X'002E' @ OF POINTER TO ACTIVE TCB (OLD)
0031 1168+NCTERM EQU X'0031' @ OF POINTER TO ABTERM ROUTINE
0032 1169+NCSV CJ EQU X'0032' @ OF AN SVC TO EOJ
0036 1170+NCSVCE EQU X'0036' @ OF AN SVC EXIT
003B 1171+NCTRAP EQU X'003B' @ OF POINTER TO TRAP TABLE
003F 1172+NCPENT EQU X'003F' @ OF PONTER TO POST ENTRY RTN
0041 1173+NCDENT EQU X'0041' @ OF POINTER TO DISP ENTRY RTN
0043 1174+NCCCP EQU X'0043' @ OF CCP SVC INTERCEPT ADDRESS
0045 1175+NCXTB@ EQU X'0045' @ OF CCP TCB AREA START ADDRESS
0047 1176+NCXTE@ EQU X'0047' @ OF CCP TCB AREA END ADDRESS
0048 1177+NCCECB EQU X'0048' @ OF CCP COMMAND PROCESSOR ECB
0700 1178+NCHIMG EQU X'0700' @ OF CHAIN IMAGE
077C 1179+NCSBUF EQU X'077C' @ OF SYSLOG PRINT BUFFER.
0100 1180+NCPCHK EQU X'0100' @ OF PROGRAM CHECK SAVE AREA
0800 1181+NCTA@ EQU X'0800' @ OF TRANSIENT AREA
00C0 1182+NCL2PR EQU X'C0' LEVEL 2 PRIORITY
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\$CC4#2 EQUATES -- COMMUNICATIONS PARAMETER LIST

1184 * \$ECPL RTNCD-EXCP CCP00271
 1185+*****
 1186+* C O M M U N I C A T I O N S P A R A M E T E R L I S T *
 1187+*****

0000 1189+CCPPL EQU 0 BEGINNING OF PARAMETER LIST.
 0001 1191+PLRTC EQU CCPPL+2-1 REQUESTERS RETURN CODE.
 0001 1192+PLCHN EQU PLRTC PARM LIST CHAIN PTR. * CM ONLY *
 0002 1194+PLOPM EQU PLRTC+1 REQUESTERS OP CODE MODIFIERS.
 0003 1195+PLOPC EQU PLOPM+1 REQUESTERS OP CODE.
 0005 1197+PLOUTL EQU PLOPC+2 OUTPUT LENGTH.
 0005 1198+PLEFFL EQU PLOUTL EFFECTIVE INPUT LENGTH.
 0005 1199+PLASID EQU PLOUTL TERMINAL ATTRIBUTE SET ID.
 0007 1201+PLINL EQU PLOUTL+2 MAXIMUM INPUT LENGTH.
 0009 1203+PLRECA EQU PLINL+2 RECORD AREA ADDRESS.
 000B 1205+PLTUBA EQU PLRECA+2 TUB ADDRESS. ** CM ONLY **
 000C 1207+PL\$OPM EQU PLTUBA+1 INTERNAL OPERATION CODE.
 000D 1209+PL\$OPC EQU PL\$OPM+1 SAVED INTERNAL OP.*CM BSCA ONLY*
 000D 1210+PL\$MCT EQU PL\$OPC MCT INDICES. *CM MLTA ONLY*
 000F 1212+PL\$RTC EQU PL\$OPC+2 INTERNAL RETURN CODE. ** CM **
 000F 1213+PL\$TNT EQU PL\$RTC ADDRESS OF TNT ENTRY ** II **
 000F 1215+PLENDS EQU PL\$TNT END OF PARAMETER LIST
 0010 1217+PLECB EQU PL\$RTC+1 PARAMETER LIST'S ECB.
 0010 1219+PLLNG EQU PLECB-CCPPL PARAMETER LIST LENGTH
 0013 1221+PLLEN EQU PLECB-CCPPL+3 LENGTH OF TP REQUEST PARM LIST.

1223+*-----*
 1224+* PLOPM-OP CODE MODIFIER *
 0080 1225+OPREQR EQU BIT0 ON-SYSTEM REQUEST. *
 1226+* OFF-USER REQUEST. *
 0080 1227+OP\$SYS EQU OPREQR SYSTEM IS REQUESTER. *
 0040 1228+OPOLT EQU BIT1 PROGRAM INITIATED ONLINE TEST. *
 0020 1229+OPDISC EQU BIT2 DISCONNECT THE LINE. *
 0010 1230+OPPRT EQU BIT3 3270 PRINT OPERATION. *
 0008 1231+OPLIST EQU BIT4 3270 MAPPING SPECIAL LIST. *
 0004 1232+OPSTOP EQU BIT5 STOP OPERATION. *
 0002 1233+OPSOL EQU BIT6 1-SUPPRESS START NEW LINE. *
 1234+* 0-ASSURE TYPEWRITER BEGINS AT *
 1235+* THE START OF A LINE. *
 0001 1236+OPEOL EQU BIT7 1-SUPPRESS END NEW LINE. *
 1237+* 0-ASSURE TYPEWRITER ENDS AT THE*

\$CC4#2 EQUATES -- COMMUNICATIONS PARAMETER LIST

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 33

			1238+*			START OF A LINE.	*
0001		1239+OPDLY	EQU	BIT7		SHUTDOWN DELAY MODIFIER	*
			1240+*	-----			*
			1242+*	-----			*
			1243+*		PLOPC-OPERATION CODE		*
			1244+*		NUMERIC VALUES (BITS 0-3)		*
0000		1245+OPSTD	EQU	X'00'		STANDARD UNIT OF DATA.(RECORD)	*
0010		1246+OPOPTN	EQU	X'10'		SPECIAL OPERATION OPTION	*
0010		1247+OPKPL	EQU	X'10'		ON RELEASE OP -- KEEP THE LINE.	*
0010		1248+OPSTA	EQU	X'10'		ON ACQUIRE OP -- SET ATTRIBUTES	*
0010		1249+OPRVI	EQU	X'10'		GET DATA -- SEND RVI RESPONSE.	*
0010		1250+OPLINE	EQU	X'10'		LINE OPERATION- LIKE PURGE LINE	*
0020		1251+OPBLK	EQU	X'20'		UNIT OF DATA = BLOCK.	*
0030		1252+OPMSG	EQU	X'30'		UNIT OF DATA = MESSAGE.	*
0040		1253+OPCOPY	EQU	X'40'		3270 COPY OPERATION.	*
0050		1254+OPEAU	EQU	X'50'		3270 ERASE-ALL-UNPROTECTED FLDS	*
0070		1255+OPRUF	EQU	X'70'		3270 READ UNDER FORMAT CONTROL	*
00F0		1256+OPORDR	EQU	X'F0'		MASK FOR ORDER HALF BYTE.	*
			1257+*		BINARY VALUES (BITS 4-7)		*
0008		1258+OPSTAT	EQU	BIT4		STATUS OPERATION.	*
0004		1259+OPNOW	EQU	BIT5		NO-WAIT OPERATION.	*
0002		1260+OPPUT	EQU	BIT6		OUTPUT OPERATION.	*
0001		1261+OPGET	EQU	BIT7		INPUT OPERATION.	*
			1262+*		EFFECTIVE OP CODES		*
0000		1263+OPSHQ	EQU	0		SHUTDOWN INQUIRY.	*
0003		1264+OPPTG	EQU	OPPUT+OPGET		PUT-THEN-GET.	*
0013		1265+OPPURG	EQU	OPPUT+OPGET+OPLINE		PURGE REQUEST	*
0004		1266+OPACI	EQU	BIT5		ACCEPT INPUT. (WAIT)	*
0044		1267+OPANW	EQU	OPACI+BIT1		ACCEPT-NO-WAIT INPUT.	*
0014		1268+OPWAIT	EQU	OPACI+OPOPTN		WAIT OPERATION.	*
0005		1269+OPINV	EQU	OPGET+OPNOW		INVITE INPUT.	*
0006		1270+OPPNW	EQU	OPPUT+OPNOW		PUT NO WAIT.	*
0008		1271+OPGTA	EQU	OPSTAT		GET TERMINAL ATTRIBUTES.	*
0009		1272+OPACQ	EQU	OPSTAT+OPGET		ACQUIRE TERMINAL.	*
0029		1273+OPCMDT	EQU	OPSTAT+OPGET+BIT2		AQUIRE COMMAND TERM. NON-PRUF	*
0069		1274+OPAQG	EQU	OPSTAT+OPGET+BIT2+BIT1		GENERIC ACQUIRE PORT TERM.	*
000A		1275+OPREL	EQU	OPSTAT+OPPUT		RELEASE TERMINAL.	*
004A		1276+OPRTC	EQU	OPSTAT+OPPUT+BIT1		RELEASE AND TASK CHAIN.	*
002A		1277+OPTCHN	EQU	OPSTAT+OPPUT+BIT2		TASK CHAIN REQUEST OPCODE	*
003A		1278+OPPCR	EQU	OPSTAT+OPPUT+OPMSG		PORT COMMAND REQUEST OPCODE	*
003D		1279+OPDMY	EQU	OPSTAT+OPNOW+OPGET+OPMSG		DUMMY PORT INPUT PARM LIST.	*
0080		1280+OPJRSH	EQU	BIT0		RESCHEDULE ONLY REQUEST	*
			1281+*	-----			*
			1283+*	-----			*
			1284+*		PLOPC / PLOPM OPERATION CODE COMBINATIONS		*
			1285+*	-----			*
			1286+*		USER-ISSUED OPERATION CODES		*
			1287+*	-----			*
			1288+*	X'0000'		SHUTDOWN INQUIRY	*
			1289+*	X'0001'		GET RECORD	*
			1290+*	X'0002'		PUT RECORD	*
			1291+*	X'0003'		PUT THEN GET	*
			1292+*	X'0004'		ACCEPT INPUT	*
			1293+*	X'0005'		INVITE INPUT	*

\$CC4#2 EQUATES -- COMMUNICATIONS PARAMETER LIST

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	34
			1294+*	X'0006'	PUT-NO-WAIT RECORD			*
			1295+*	X'0008'	GET TERMINAL ATTRIBUTES			*
			1296+*	X'0009'	ACQUIRE TERMINAL			*
			1297+*	X'000A'	RELEASE TERMINAL (DROP)			*
			1298+*	X'0011'	GET - RVI RESPONSE			*
			1299+*	X'0014'	WAIT OPERATION			*
			1300+*	X'0019'	ACQUIRE AND SET ATTRIBUTES			*
			1301+*	X'001A'	RELEASE TERMINAL (KEEP)			*
			1302+*	X'0021'	GET BLOCK			*
			1303+*	X'0022'	PUT BLOCK			*
			1304+*	X'0023'	PUT-THEN-GET BLOCK			*
			1305+*	X'0026'	PUT-NO-WAIT BLOCK			*
			1306+*	X'0029'	AQUIRE NON-PRUF COMMAND TERM			*
			1307+*	X'002A'	TASK CHAIN REQUEST(OLE)			*
			1308+*	X'0031'	GET MESSAGE			*
			1309+*	X'0032'	PUT MESSAGE			*
			1310+*	X'0033'	PUT-THEN-GET MESSAGE			*
			1311+*	X'0042'	DFP COPY OPERATION			*
			1312+*	X'0044'	ACCEPT-NO-WAIT INPUT			*
			1313+*	X'004A'	RELEASE AND TASK CHAIN			*
			1314+*	X'0052'	DFP ERASE OPERATION			*
			1315+*	X'0072'	RUF PUT MESSAGE			*
			1316+*	X'0401'	STOP INVITE INPUT			*
			1317+*					*
			1318+*		SYSTEM-ISSUED OPERATION CODES			*
			1319+*					*
			1320+*	X'8002'	SYSTEM PUT			*
			1321+*	X'8005'	SYSTEM INVITE INPUT			*
			1322+*	X'8006'	SYSTEM PUT-NO-WAIT			*
			1323+*	X'8007'	SYSTEM PUT-NO-WAIT INVITE			*
			1324+*	X'8401'	SYSTEM STOP INVITE			*
			1325+*	X'8403'	SYSTEM PURGE OF TERMINAL			*
			1326+*	X'8413'	SYSTEM PURGE OF WHOLE LINE			*
			1327+*	X'A006'	SYSTEM PUT DISCONNECT			*
			1328+*	X'A413'	SYSTEM PURGE AND PUT DISCONNECT			*
			1329+*					*
			1330+*					*
			1332+*					*
			1333+*		PL\$OPM-INTERNAL OP CODE			*
0080			1334+*	OPGETM EQU BIT0	1-NEED TO GETMAIN STORAGE FOR			*
			1335+*		* THIS TP REQUEST.			*
0040			1336+*	OPGETQ EQU BIT1	1-NEED GETMAIN TO FINISH			*
			1337+*		* QUEUEING THIS REQUEST.			*
0020			1338+*	OPNPST EQU BIT2	DON'T POST PURGED PUT.MLTA ONLY			*
0010			1339+*	OPBNOP EQU BIT3	DON'T POST ERP OP END.BSCA ONLY			*
			1340+*					*
			1341+*		BITS 4-7 ARE THE SAME AS FOR PLOPC.			*
			1342+*					*
			1344+*					*
			1345+*		PL\$OPC-SAVED INTERNAL OP ** BSCA ONLY **			*
0080			1346+*	OPRFSH EQU BIT0	SEND REFRESH MSG TO 3270.			*
0040			1347+*	OPLSNS EQU BIT1	POLL FOR TERMINAL STATUS.			*
0020			1348+*	OPUSER EQU BIT2	FUNCTION, 1-SYSTEM, 0-USER.			*
0010			1349+*	OPSTCM EQU BIT3	STOP INVITE PARM LIST HANDLED.			*

\$CC4#2 EQUATES -- COMMUNICATIONS PARAMETER LIST

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 35

```

1350+*
1351+* BITS 4-7 ARE THE SAME AS FOR PLOPC.
1352+*-----*

1354+*-----*
1355+*          PL$RTC-INTERNAL RETURN CODE
1356+*
1357+*          SUCCESSFUL OP CODE
1358+*          PL$RTC=00XX, FOR XX AS FOLLOWS:
0000 1359+RCOK EQU X'00'          SUCCESSFUL OPERATION. (00)
000E 1360+RCOKTC EQU X'0E'        TC ACCEPT INPUT OKAY. (14)
1361+*
1362+*          EXCEPTION RETURN CODES
1363+*          PL$RTC=00XX, FOR XX AS FOLLOWS:
0001 1364+RCXDTR EQU X'01'        DATA TRUNCATED.
0002 1365+RCXEOT EQU X'02'        EOT RECEIVED.
0003 1366+RCXEDT EQU X'03'        EOT RECEIVED AND DATA TRUNCATED*
1367+*          DATA TRANSFER IS VALID ONLY FOR OPERATIONS WHICH YIELD RETURN
1368+*          CODES OF 0, +1, +2, +3, OR +6.
0004 1369+RCXSHD EQU X'04'        SHUTDOWN REQUESTED.
0005 1370+RCXDPD EQU X'05'        DATA PENDING ON BSCA LINE.
0006 1371+RCXRVI EQU X'06'        RVI/TERMINAL INTERRUPT RECEIVED*
0007 1372+RCXCLR EQU X'07'        3270 CLEAR KEY RECEIVED.
0008 1373+RCXNAV EQU X'08'        TERMINAL NO LONGER AVAILABLE.
0009 1374+RCXOFF EQU X'09'        TERMINAL OFFLINE.
000A 1375+RCXSPI EQU X'0A'        STOP INVITE INPUT SUCCESSFUL.
000B 1376+RCXNAQ EQU X'0B'        ACQUIRE TERMINAL FAILED.
000C 1377+RCXNTC EQU X'0C'        NO TASK CHAIN TUBS AVALABLE.
000D 1378+RCXNTP EQU X'0D'        TPBUFFER SPACE NOT AVALABLE.
000F 1379+RCXNTR EQU X'0F'        TC ACCEPT WITH DATA TRUNCATED.
0010 1380+RCXNAC EQU X'10'        ACC-NO-WAIT RETURNED NO DATA.
0011 1381+RCXSHP EQU X'11'        SHUTDOWN PENDING RETURN CODE.
007E 1382+RCXNIQ EQU X'7E'        SPI FAILED-NO INVITE IN Q.
007F 1383+RCXSPF EQU X'7F'        STOP INVITE INPUT FAILED.
1384+*
1385+*          PORT TERMINATION CODES.
1386+*          PL$RTC=40XX, TERMINATE TASK WITH XX.
0040 1387+RCRTRM EQU X'40'        PORT TERMINATION CODE FOLLOWS
1388+*-----*

```

\$CC4#2 EQUATES -- TERMINAL ATTRIBUTES SET

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	36
			1391 *	\$ETAS				CCP00273
			1392+	*****				
			1393+	TERMINAL ATTRIBUTES SET				*
			1394+	*****				
0000		1396+	TASCCP EQU	0				BEGINNING OF TAS ENTRY
			1398+	ATTRIBUTES BYTE 1				
0000		1400+	TASAT1 EQU	TASCCP-1+1				ATTRIBUTE BYTE 1
0080		1402+	TASTRN EQU	BIT0				0-TRANSLATE
			1403+	*				1-DON'T TRANSLATE
0040		1404+	TASCAS EQU	BIT1				0-FORCE UPPER CASE TRANSLATE
			1405+	*				1-DO NOT FORCE UPPER CASE
0020		1406+	TASCNC EQU	BIT2				0-ON SWITCHED LINE, ANSWER
			1407+	*				1-ON SWITCHED LINE, CALL OUT
0010		1408+	TASAUT EQU	BIT3				0-ON SW LINE, MANUAL CONNECT
			1409+	*				1-ON SW LINE, AUTO CONNECT
0008		1410+	TASINX EQU	BIT4				0-TUBBKF IS BLOCKING FACTOR
			1411+	*				1-TUBBKF IS INDEX TO CURRENT TAS
0006		1412+	TASRSV EQU	BIT5+BIT6				RESERVED BITS
0001		1413+	TASDFE EQU	BIT7				0-DO NOT USE DFE
			1414+	*				1-USE DISPLAY FORMAT FACILITY
			1416+	ATTRIBUTES BYTE 2				
0001		1418+	TASAT2 EQU	TASAT1+1				ATTRIBUTE BYTE 2
0080		1420+	TASREC EQU	BIT0				0-DATA FORMAT IS NOT RECORD MODE
			1421+	*				1-DATA FORMAT IS RECORD MODE
0040		1422+	TASBLK EQU	BIT1				0-DATA FORMAT NOT BLOCK MODE
			1423+	*				1-DATA FORMAT IS BLOCK MODE
0020		1424+	TASMSG EQU	BIT2				0-DATA FORMAT NOT MESSAGE MODE
			1425+	*				1-DATA FORMAT IS MESSAGE MODE
0010		1426+	TASITB EQU	BIT3				0-NO ITB SUPPORT
			1427+	*				1-ITB SUPPORT
0008		1428+	TASTSP EQU	BIT4				0-NON-TRANSPARENCY MODE
			1429+	*				1-TRANSPARENCY MODE
0004		1430+	TASVFY EQU	BIT5				0-VERIFY EXCHANGE ID
			1431+	*				1-NO EXCHANGE ID VERIFICATION
0002		1432+	TASSPAN EQU	BIT6				0-NO SPANNED RECORD SUPPORT
			1433+	*				1-SUPPORT SPANNED RECORDS
0001		1434+	TASVRL EQU	BIT7				0-NO VARIABLE LENGTH SUPPORT
			1435+	*				1-SUPPORT VARIABLE LENGTH RECORD
			1437+	RECORD AND BLOCK LENGTHS				
0003		1439+	TASRCL EQU	TASAT2+2				RECORD LENGTH
0004		1441+	TASBKF EQU	TASRCL+1				BLOCKING FACTOR
0005		1443+	TASLN EQU	TASBKF-TASCCP+1				LENGTH OF TERMINAL ATTRIBUTE SET

\$CC4#2 EQUATES -- TERMINAL UNIT BLOCK

CCP00275

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1446 *      $ETUB
1447+*****
1448+*      T E R M I N A L   U N I T   B L O C K      *
1449+*****
    
```

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0000 1450+TUBCCP EQU 0      BEGINNING OF TUB
0001 1451+TUBID  EQU TUBCCP+1  TERMINAL PHYSICAL ID (2 BYTES)

0003 1453+TUBPL@ EQU TUBID+2  LAST PARAMETER LIST FOR TUB
0005 1454+TUBER@ EQU TUBPL@+2  PARAMETER LIST IN ERP
0007 1455+TUBDM@ EQU TUBER@+2  PARAMETER LIST AT TIME OF DME

0008 1457+TUBSID EQU TUBDM@+1  INTERNAL TERMINAL ID (BSCA ONLY)

0009 1459+TUBSCS EQU TUBSID+1  BSCA STATUS BYTES (BSCA ONLY)
0080 1460+TUBCLR EQU BIT0      * 1-3270 CLEAR KEY DEPRESSED
0040 1461+TUBDME EQU BIT1      * 1-DME CHECK SUCCESSFUL
0020 1462+TUBDMF EQU BIT2      * 1-DME CHECK FAILED
0010 1463+TUBSWA EQU BIT3      * 1-SWITCHED LINE DEVICE HANDLED
1464+*      * DURING PREVIOUS SYS PURGE.
0008 1465+TUBSSP EQU BIT4      * 1-STOP STATUS POLLING
0004 1466+TUBRUF EQU BIT5      * 1-RUF DATA ON SCREEN(3270 DFF)
0002 1467+TUBPRG EQU BIT6      * 1-PORT TUB IN PURG MODE.
0001 1468+TUBBPT EQU BIT7      * 1-BUSY PRINT ALLOWED

0009 1470+TUBTMA EQU TUBSCS    2 BYTE TERMINAL ADDR (MLTA ONLY)
1471+*      OVERLAYS TUBSID AND TUBSCS
    
```

1473+* ATTRIBUTES AND STATUS BYTES

```

000A 1474+TUBCHR EQU TUBTMA+1  TERMINAL CHARACTERISTICS
0080 1475+TUBLNE EQU BIT0      1-BSCA LINE
0040 1476+TUB@SL EQU BIT1      1-TYPWTR DEVICE AT START OF LINE
0020 1477+TUBTYP EQU BIT2      1-MLTA TYPEWRITER DEVICE
0010 1478+TUBNID EQU BIT3      1-NEED IDLES AT BEGIN OF LINE
0008 1479+TUBCMN EQU BIT4      1-COMMAND (CAPABLE) TERMINAL
0004 1480+TUBMCT EQU BIT5      1-MULTI-COMPONENT TERMINAL
0002 1481+TUBOUT EQU BIT6      1-TERMINAL CAPABLE OF OUTPUT
0001 1482+TUBINP EQU BIT7      1-TERMINAL CAPABLE OF INPUT

000B 1484+TUBAT1 EQU TUBCHR+1  TERMINAL ATTRIBUTES BYTE 1
0080 1485+TUBKNM EQU BIT0      1-THIS TUB IS FOR CONSOLE
0040 1486+TUBDPY EQU BIT1      1-IN USE BY DISPLAY
0020 1487+TUBONL EQU BIT2      1-TERMINAL IS ONLINE
0010 1488+TUBSGN EQU BIT3      1-COMMAND TERMINAL IS SIGNED ON
0008 1489+TUBQUE EQU BIT4      1-COMMAND TERMINAL IN /Q STATUS
0004 1490+TUBREQ EQU BIT5      1-TERMINAL IS REQUESTER OF PGM
0002 1491+TUBSWC EQU BIT6      1-TERMINAL ON SWITCHED LINE
0001 1492+TUBOFF EQU BIT7      1-CMD TERM SIGNOFF DEFAULT=HOLD
    
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```

000C 1494+TUBAT2 EQU TUBAT1+1  TERMINAL ATTR BYTE 2
0080 1495+TUBDTA EQU BIT0      1-TERMINAL IN DATA MODE
0040 1496+TUBCMD EQU BIT1      1-TERMINAL IN COMMAND MODE
1497+*      * DTA/CMD/TERMINAL MODE
1498+*      * 0 0 INITIAL
1499+*      * 0 1 COMMAND
1500+*      * 1 0 DATA
1501+*      * 1 1 COMMAND INTERRUPT
    
```

\$CC4#2 EQUATES -- TERMINAL UNIT BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	38
		0020	1502+	TUBIMI EQU	BIT2				1-OUTSTANDING DATA FROM PGM RQST
		0010	1503+	TUBIIS EQU	BIT3				1-INVITE OR GET SCHEDULED
		0008	1504+	TUBIIQ EQU	BIT4				1-INVITE COMPLETE -- ON TCBINQ
			1505+*						0-NO OUTSTANDING COMPLETE INVITE
		0004	1506+	TUBOLT EQU	BIT5				1-CURRENTLY RUNNING ONLINE TEST
		0002	1507+	TUBAPP EQU	BIT6				1-ALLOCATION PENDING ON THIS TUB
		0001	1508+	TUBOWN EQU	BIT7				1-TERMINAL NOW COMMUNICATING ON
			1509+*						* BSCA LINE--EOT NOT SENT/RECD
		000D	1511+	TUBAT3 EQU	TUBAT2+1				TERMINAL ATTRIBUTE BYTE 3
		0080	1512+	TUBRTY EQU	BIT0				TUB HAS BEEN RETRIED THIS TIME
		0040	1513+	TUBSPF EQU	BIT1				1-STOP POLLING FAILED
		0020	1514+	TUBCNC EQU	BIT2				1-/RELEASE BY TERMINAL OPERATOR
		0010	1515+	TUBERP EQU	BIT3				1-TERMINAL ERROR -- AWAITING ERP
		0008	1516+	TUBALC EQU	BIT4				1-PHYSICALLY ALLOCATED
			1517+*						BUT NOT LOGICALLY
			1518+*						ALLOCATED,(NO I/O POSSIBLE)
			1519+*						0-IS ALLOCATED TO THE
			1520+*						TCB POINTED TO BY TUBTCB
		0004	1521+	TUBVFP EQU	BIT5				1-VARY OFFLINE PENDING
		0002	1522+	TUBSPP EQU	BIT6				1-STOP POLLING PENDING TO TERM'L
			1523+*						* IN COMMAND INTERRUPT MODE
		0001	1524+	TUBSWL EQU	BIT7				1-DISCARD ABORTED INPUT DATA
		000E	1526+	TUBAT4 EQU	TUBAT3+1				TERMINAL ATTRIBUTES BYTE 1
		0080	1527+	TUBCHN EQU	BIT0				1-DUMMY TUB FOR TASK CHAINING
		0040	1528+	TUBTRM EQU	BIT1				1-TUB IN PROCESS OF SYS INVITE
		0020	1529+	TUBYUK EQU	BIT2				1-YUKON BSCA LINES 3 OR 4
		0010	1530+	TUBAER EQU	BIT3				1-AUTO ERROR RECOVERY SPECIFIED
		0008	1531+	TUBEMS EQU	BIT4				1-ERP MESSAGE SENT TO CONSOLE
		0004	1532+	TUBPCB EQU	BIT5				1-PORT CONTROL BLOCK (TUB)
		0002	1533+	TUBBSY EQU	BIT6				1-TUB TO BE CHECKED FOR BUSY
		0001	1534+	TUBWAT EQU	BIT7				1-WAIT FOR RESPONCE TO BUSY
			1536+*	QUEUE CHAIN FIELDS					
		0010	1537+	TUBINQ EQU	TUBAT4+2				GET INVITE INPUT QUEUE
			1538+*						POINTS TO NEXT TUB IN CHAIN
		0012	1539+	TUBTCB EQU	TUBINQ+2				@ OF TCB
		0014	1540+	TUBTUB EQU	TUBTCB+2				NEXT TUB ADDR BY TCBTUB
		0014	1541+	TUBPST EQU	TUBTUB				NEXT TUB ON ALLOCATION QUEUE
		0016	1542+	TUBLCB EQU	TUBTUB+2				ADDR OF LINE DTF (LCB)
		0016	1543+	TUBDTF EQU	TUBLCB				
		0018	1544+	TUBTNT EQU	TUBLCB+2				ADDR OF TNT ENTRY
		001A	1545+	TUBFSB EQU	TUBTNT+2				ADDR OF 1ST ENTRY FOR THIS
			1546+*						TERMINAL IN FILE SPEC BLOCK
			1548+*	TASK CHAINING TUB EQUATES					
		001A	1549+	TUBPNM EQU	TUBTUB+6				NAME FIELD
		001B	1550+	TUBDPL EQU	TUBPNM+1				DISP TO PL IN TASK CHAIN TUB
		002E	1551+	TUBDLN EQU	TUBDPL+19				LEN OF TASK CHAIN TUB
			1552+*	END OF TASK CHAIN TUB					
			1554+*	ONLINE TEST FIELDS					
		001B	1555+	TUBOTC EQU	TUBFSB+1				TERMINAL ONLINE TEST CONTROL BYT
			1556+*						M L T A SPECS *
		0080	1557+	TUBLOP EQU	BIT0				* 1-LOOPING TEST SPECIFIED

\$CC4#2 EQUATES -- TERMINAL UNIT BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	39
		0040	1558+	TUBALL	EQU BIT1				* 1-MULTIPLE TESTS SPECIFIED
		000F	1559+	TUBTNR	EQU BIT4+BIT5+BIT6+BIT7				BINARY NUMBER OF SINGLE TEST
			1560+	*					THIS BYTE - X'FF' SPECIFIES STOP
		001C	1562+	TUBCMA	EQU TUBOTC+1				MCT COMPONENT INDEX FOR OLT
			1564+	*	TERMINAL ATTRIBUTE SET FIELDS				
		001D	1565+	TUBTAS	EQU TUBCMA+1				INDEX OF STANDARD ATTRIBUTE SET
		001E	1567+	TUBTA1	EQU TUBTAS+1				1ST BYTE OF TERMINAL ATTRIBUTES
		001F	1568+	TUBTA2	EQU TUBTA1+1				2ND BYTE OF TERMINAL ATTRIBUTES
		0021	1569+	TUBRCL	EQU TUBTA2+2				BSCA RECORD LENGTH
		0021	1570+	TUBVCS	EQU TUBRCL				1-BYTE SAVE AREA FOR I/O
			1571+	*					COMPONENTS FOR MLTA MCT
		0022	1572+	TUBBKF	EQU TUBRCL+1				BSCA BLOCKING FACTOR
		0022	1574+	TUBCAS	EQU TUBTAS+5				DEFINES ALL 5 PRECEDING BYTES
			1576+	*	TERMINAL TYPE FIELD				
		0023	1577+	TUBPHY	EQU TUBCAS+1				PHYSICAL TERMINAL TYPE--VALUES:
		0000	1578+	TUBCON	EQU 0				.0 - CONSOLE
		0001	1579+	TUBMLT	EQU 1				.1 - MLTA NON-1050
		0002	1580+	TUB105	EQU 2				.2 - MLTA 1050
		0003	1581+	TUB7M1	EQU 3				.3 - 3277/84/86 MODEL 1 (480)
		0004	1582+	TUB7M2	EQU 4				.4 - 3277/84/86 MODEL 2 (1920)
		0005	1583+	TUB5M1	EQU 5				.5 - 3275 MODEL 1 (480)
		0006	1584+	TUB5M2	EQU 6				.6 - 3275 MODEL 2 (1920)
		0007	1585+	TUB375	EQU 7				.7 - 3735
		0008	1586+	TUBCPU	EQU 8				.8 - CPU
		0009	1587+	TUB374	EQU 9				.9 - 3741
		000A	1588+	TUBAPT	EQU 10				10 - AQQ PORT.
		000B	1589+	TUBNPT	EQU 11				11 - NON-AQQ PORT.
			1591+	*	MULTI-COMPONENT TERMINAL PRINCIPAL COMPONENT INDEXES				
		0024	1592+	TUBPCS	EQU TUBPHY+1				PRINCIPAL COMPONENTS FOR 1050
		0025	1593+	TUBVHR	EQU TUBPCS+1				SAVE AREA FOR TUBCHR FOR MLTA
		0026	1594+	TUBPIL	EQU TUBPCS+2				PRUF INPUT LENGTH (TUBVHR)
		0026	1595+	TUBDCH	EQU TUBPIL				REDEFINES TUBPIL FOR PORTS.
		0027	1597+	TUBLN	EQU TUBPIL+1				LENGTH OF DATA MODE TUB
			1599+	*	END OF TUB FOR DATA MODE TERMINAL				
		0027	1601+	TUBPL	EQU TUBPIL+1				PARAMETER LIST FOR SYSTEM INVITE
			1602+	*					* OR PUT-NO-WAIT INVITE
			1603+	*					* 19 BYTES
		003A	1605+	TUBLNC	EQU TUBLN+19				LENGTH OF TUB FOR COMMAND MODE
			1606+	*					* TERMINAL
			1608+	*	END OF TUB FOR COMMAND MODE TERMINAL				
		00FF	1610+	TUBSTP	EQU X'FF'				TUB STOPPER BYTE

\$CC4#2 EQUATES -- LINE CONTROL BLOCK

1613 * \$ELCB MLTA-0,BSCA-1 CCP00277
 1614+*****
 1615+* LINE CONTROL BLOCK *
 1616+*****

1618+*----- FIRST BSCA-ONLY SEGMENT -----*

004C 1620+LCBSCA EQU 76 LCB BEGIN FOR BSCA.
 004D 1621+LCBPOL EQU LCBSCA+1 ADDRESS OF POLLING LIST.
 004F 1622+LCBSEL EQU LCBPOL+2 ADDRESS OF SELECTION LIST.
 004F 1623+LCBNO# EQU LCBSEL @ IN SW ID LIST OF NO VERIFY ID.
 0050 1624+LCBID# EQU LCBSEL+1 ID LAST POLL/SELECTED TERM.
 0052 1625+LCBPL@ EQU LCBID#+2 SAVE FOR CURRENT PARM LIST @.
 0054 1626+LCBWRK EQU LCBPL@+2 WORK AREA FOR SUBRTNS.

1628+* LCBAT1 AND LCBAT2 ARE BOTH ZEROED WHEN AN EOT IS HANDLED.

0055 1630+LCBAT1 EQU LCBWRK+1 ATTRIBUTE BYTE 1.
 0080 1631+LCBCRI EQU X'80' CANCEL RCVI, STOP POLLING.
 0040 1632+LCBPRI EQU X'40' CANCEL RCVI, HANDLE PRIORITY PUT
 0010 1633+LCBINT EQU X'10' INTERRUPT WITH NO PARM LIST QUED
 0008 1634+LCBNTQ EQU X'08' ACTIVE PARM LIST REMOVED FR QUE.
 0004 1635+LCBDEQ EQU X'04' DEQUE WHEN EOT IS FOUND.
 0002 1636+LCBEOT EQU X'02' SEARCH EOT. READ LINE FOR EOT.
 0001 1637+LCBSIN EQU X'01' POLL FOR STATUS, NO STATUS RCVD

0056 1639+LCBAT2 EQU LCBAT1+1 ATTRIBUTE BYTE 2.
 0080 1640+LCBTRC EQU X'80' TRUNCATE BLOCK, BUMP BKX TO END.
 0040 1641+LCBSET EQU X'40' SEND EOT ON THE LINE.
 0020 1642+LCBACT EQU X'20' LINE ACTIVE WITH WORK.
 0010 1643+LCBRFT EQU X'10' REQUEST FOR TEST STARTED.
 0008 1644+LCBABT EQU X'08' ABORT THE LINE CONNECTION.
 0004 1645+LCBSEC EQU X'04' SCOND BLOCK INDICATOR.
 0002 1646+LCBPUT EQU X'02' PUT PENDING ON LINE.
 0001 1647+LCBRCI EQU X'01' RECEIVE INIT ON LINE.

0058 1649+LCBADJ EQU LCBAT2+2 ADJUSTED OUTPUT LENGTH.
 005A 1650+LCBATL EQU LCBADJ+2 @ OF ASCII TRANSLATE BUFFER.
 005C 1651+LCBOWN EQU LCBATL+2 TCB ADDR OF OWNING TASK.
 005E 1652+LCB\$L0 EQU LCBOWN+2 C/S OF LINE INIT. TRANSIENT.
 0060 1653+LCBSRT EQU LCB\$L0+2 @ OF START OF LINE BUFFER AREA.
 0062 1654+LCBBND EQU LCB\$RT+2 @ OF END OF LINE BUFFER AREA.
 0064 1655+LCBKLC EQU LCB\$ND+2 BLOCK LENGTH CURRENT INPUT OP.

1657+*----- SEGMENT COMMON TO MLTA AND BSCA -----*

0065 1659+LCBCCP EQU X'65' BEGINNING OF LCB
 0066 1660+LCBPLQ EQU LCBCCP+2-1 ADDR OF 1ST PARM LIST IN LINE QU
 0068 1661+LCBCHN EQU LCBPLQ+2 CHAIN OF ALL LCB'S IN CCP SYSTEM
 0069 1662+LCBATA EQU LCBCHN+1 LCB ATTRIBUTE BYTE A.
 0080 1663+LCBIGN EQU X'80' 1-IGNORE OP END. REOPENING LINE
 0002 1664+LCBDFB EQU X'02' DFF BUFFER SUPPORTED
 0001 1665+LCBDFB EQU X'01' DFF BUFFER BUSY

\$CC4#2 EQUATES -- LINE CONTROL BLOCK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	41
		006A	1667+	LCBELC EQU	LCBATA+1				ID XLATE XIENT EBCDIC -> LINE.
		006B	1668+	LCBDTR EQU	LCBELC+1				DFB BUFFER ATR VALUE
			1670+*	----- MLTA / BSCA MULTIPLIED DEFINED BYTE -----*					
		006C	1672+	LCBLCE EQU	LCBDTR+1				ID XLATE XIENT LINE -> TO UPPER
			1673+*						* CASE EBCDIC *MLTA ONLY*
		006C	1674+	LCBOPE EQU	LCBLCE				OP END COUNT ON LINE *BSCA ONLY*
		006D	1676+	LCBLID EQU	LCBLCE+1				SAVED ID OF LAST TERM POLLED
		006E	1677+	LCBLLE EQU	LCBLID+1				ID XLATE XIENT LINE -> TO
			1678+*						* LOWER CASE EBCDIC.
			1680+*	----- MLTA / BSCA MULTIPLIED DEFINED BYTE -----*					
		006F	1682+	LCBOLT EQU	LCBLLE+1				POLT COUNT (RUNNING AND PENDING)
			1683+*						ON THIS TP LINE *MLTA ONLY*
		006F	1684+	LCBAT3 EQU	LCBOLT				LCB ATTRIBUTE BYTE 3 *BSCA ONLY*
		0080	1685+	LCBITB EQU	BIT0				1-ITB SUPPORTED FOR THIS DTF
		0040	1686+	LCBTSP EQU	BIT1				1-TRANSPARENCY SUPPORTED
		0020	1687+	LCBENB EQU	BIT2				1-BSCA LINE ENABLED
		0010	1688+	LCBATO EQU	BIT3				AUTO CALL HARDWARE SUPPORTED.
		0008	1689+	LCBBYP EQU	BIT4				POLLING A BUSY PRINTER.
		0004	1690+	LCBSTS EQU	BIT5				POLL FOR STATUS IN OPERATION.
		0002	1691+	LCBREP EQU	BIT6				RE-POLL TERMINALS FOR BUSY PRINT
		0001	1692+	LCBPOR EQU	BIT7				THIS LCB IS FOR PORTLINE TUBS
		0070	1694+	LCBATR EQU	LCBOLT+1				LCB ATTRIBUTE BYTE
		0080	1696+	LCBNIT EQU	BIT0				* HAD SUCCESSFUL INITIAL
			1697+*						* OPERATION ON THIS LINE
		0040	1698+	LCBOLR EQU	BIT1				* 1-POLT CURRENTLY RUNNING
		0020	1699+	LCBGMN EQU	BIT2				* 1-GETMAIN NEEDED FOR LINE QUEU
		0010	1700+	LCBSTP EQU	BIT3				1-ABORT ISSUED TO STOP READ
		0008	1701+	LCBSWL EQU	BIT4				1-SWALLOW INPUT FROM NEXT READ
			1702+*						OP END
		0004	1703+	LCB1PL EQU	BIT5				1-INDICATES NEXT PARM LIST
			1704+*						ISSUED TO THIS LINE IS TO BE PUT
			1705+*						AT THE TOP OF LINE QUEUE
		0002	1706+	LCBTBK EQU	BIT6				1-BIT BUCKET DATA FROM READ OP
			1707+*						SET FOR 2741 TO DO READ INITIAL
			1708+*						WHEN WRITE IS 1ST OP TO TERMINAL
		0001	1709+	LCBTIM EQU	BIT7				RESCHEDULE PENDING ON LINE
		0072	1711+	LCBBFL EQU	LCBATR+2				LENGTH OF DATA AREA IN LINE BUFR
		0074	1712+	LCBRS3 EQU	LCBBFL+2				RESERVED BYTES.(NOT USED)
		0076	1713+	LCBIBL EQU	LCBRS3+2				LENGTH OF CURRENT INVITE INPUT
			1714+*						BUFFER FOR THIS LINE
		0078	1715+	LCBIBA EQU	LCBIBL+2				ADDRESS OF INVITE INPUT BUFFER
		007A	1716+	LCBTCB EQU	LCBIBA+2				ADDR OF TCB WHICHS OWNS SWITCHED
			1717+*						TP LINE
		007B	1718+	LCBATC EQU	LCBTCB+1				COUNT OF ALLOCATED TUBS ON
			1719+*						SWITCHED LINE
		007C	1720+	LCBNW# EQU	LCBATC+1				# NEW REQUESTS FOR CM - FROM II

\$CC4#2 EQUATES -- LINE CONTROL BLOCK

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1722+*----- SECOND BSCA-ONLY SEGMENT -----*

007D	1724+LCBOPC	EQU	LCBNW#+1	LAST OP CODE ON BSCA.
0080	1725+LCBMVD	EQU	X'80'	DATA MOVED INDICATOR ON.
0040	1726+LCBERP	EQU	X'40'	LINE IN ERP MODE.(IGNORE DATA).
0020	1727+LCBRVI	EQU	X'20'	RVI IND - SEND/RECEIVE RVI.
	1728+*		X'08'	* SAVE
	1729+*		X'04'	* AREA
	1730+*		X'02'	* FOR CCP
	1731+*		X'01'	* OP CODE.

1733+* THE FOLLOW EQUATES ARE FOR OUTPUT (SELECTION) ONLY.

007E	1735+LCBADL	EQU	LCBOPC+1	START OF LINE SELECTION LIST.
0088	1736+LCBADN	EQU	LCBADL+10	END OF SELECTION LIST.

1738+* THE FOLLOWING EQUATES ARE FOR INPUT (POLLING) ONLY.

007F	1740+LCBMRL	EQU	LCBOPC+2	INCREMENT AREA FOR MSG LENGTH.
0081	1741+LCBMIL	EQU	LCBMRL+2	ORIGINAL MESSAGE INPUT LENGTH
	1742+*			USED VIA LCBMR@ LABEL.
0083	1743+LCBMR@	EQU	LCBMIL+2	ORIGINAL MESSAGE RECORD ADDR.
0089	1745+LCBBLN	EQU	LCBADN+1	LENGTH OF BSCA LCB

1747+* THE FOLLOWING EQUATES ARE FOR BSCA SWITCHED AUTO CALL DTF ONLY.

007E	1749+LCBTEL	EQU	LCBOPC+1	BEGINING OF AURO DIAL #.
008C	1750+LCBTL@	EQU	LCBTEL+14	END OF AUTO DIAL AREA.
008D	1751+LCBSWN	EQU	LCBTL@+1	LENGTH OF BSCA AUTO DIAL DTF.

1754 * \$ETML
1755+*****
1756+* T R A N S L A T E / M O V E L I S T S *
1757+*****

1759+* TRANSLATE PARAMETER LIST

0000	1761+TLCCP	EQU	0	BEGINNING OF TRANSLATE LIST
0001	1762+TLTOL	EQU	TLCCP-1+2	LENGTH OF TO FIELD
0003	1763+TLTOA	EQU	TLTOL+2	ADDRESS OF THE TO FIELD
0005	1764+TLFRMA	EQU	TLTOA+2	ADDRESS OF THE FROM FIELD
0007	1765+TLFRML	EQU	TLFRMA+2	LENGTH OF THE FROM FIELD
0008	1766+TLRTC	EQU	TLFRML+1	TRANSLATE RETURN CODE

1768+* MOVE PARAMETER LIST

0000	1770+MVLCCP	EQU	0	BEGINNING OF MOVE LIST
0001	1771+MVLTOA	EQU	MVLCCP+2-1	LENGTH OF THE TO FIELD
0003	1772+MVLTOA	EQU	MVLTOA+2	ADDRESS OF THE TO FIELD
0005	1773+MVLFRMA	EQU	MVLTOA+2	ADDR OF THE FROM FIELD
0007	1774+MVLFRML	EQU	MVLFRMA+2	LENGTH OF THE FROM FIELD
0008	1775+MVLTYP	EQU	MVLFRML+1	TYPE OF MOVE REQUEST
	1776+*			* X'00' - NO ATR SWAP NECESSARY
	1777+*			* (NEITHER FIELD IN UPA)
	1778+*			* X'01' - FROM FIELD IN UPA
	1779+*			* X'02' - TO FIELD IN UPA
	1780+*			* X'03' - BOTH FIELDS IN UPA
	1781+*			* (SWAP ATRS).
000A	1782+MVLTCB	EQU	MVLTYP+2	ADDRESS OF TCB FOR USER TASK
	1783+*			* IF EITHER TO OR FROM FIELD
	1784+*			* IS IN A USER PROGRAM.
	1785+*			* FIELD NOT NEEDED IF MVLTYP
	1786+*			* IS X'00'.

\$CC4#2 EQUATES -- BSCA COMMON VALUES

1789 * \$EBEQ IOB-Y,WKA-Y,POL-Y,CKL-Y,CMD-CM,MIN-Y CCP00281
 1790+*-----*
 1791+* BSCA IOB EQUATES(FROM BSEQU MACROS OF MLMP). *
 1792+*-----*

0001 1794+IOBNXT EQU 1 @ NEXT IOB.
 0002 1795+IOBQ EQU IOBNXT+1 DEVICE ADDRESS.
 0004 1796+IOBDBL EQU IOBQ+2 BUFFER LENGTH.
 0005 1797+IOBFLA EQU IOBDBL+1 IOB FLAG A.
 0020 1798+TDLAY EQU X'20' TWO SEC. TIME OUT STARTED.
 0004 1799+FIRST EQU X'04' FIRST TIME. LINE INIT NOT DONE.
 0002 1800+DELAY EQU X'02' DELAY IOB-WAIT SEQUENCE GOING.
 0006 1801+IOBFLG EQU IOBFLA+1 IOB FLAG B.
 0007 1802+IOBCMP EQU IOBFLG+1 IOB COMPLETION CODE.
 0080 1803+PROCES EQU X'80' IOB CMP, IOB IN PROCESS. B
 0009 1804+IOBDAT EQU IOBCMP+2 @ DATA BUFFER.
 000B 1805+IOBSNS EQU IOBDAT+2 SENSE AREA.
 000C 1806+IOBERR EQU IOBSNS+1 ERROR COUNT.
 000E 1807+IOBCAR EQU IOBERR+2 CURRENT ADDRESS.
 0010 1808+IOBTAR EQU IOBCAR+2 TRANSITION ADDRESS.
 0012 1809+IOBSAR EQU IOBTAR+2 STOP ADDRESS.
 0014 1810+IOBDTF EQU IOBSAR+2 @ DTF.
 0016 1811+IOBMSG EQU IOBDTF+2 DELAY MESSAGE OFFSET.
 0016 1812+IOBNEX EQU IOBDTF+2 AREA FOR CALC @ NEXT IOB.
 0018 1813+IOBDBN EQU IOBNEX+2 AREA FOR CALL @ 2ND NEXT BUFFER.
 001A 1814+IOB2NX EQU IOBDBN+2 AREA FOR CALC @ 2ND NEXT IOB.
 0015 1815+IOBL EQU IOBDTF+1 LENGTH OF THE OPERATIONAL IOB.

1816+*-----*
 1817+* BSCA WORK AREA EQUATES(FROM BSEQU MACRO OF MLMP). *
 1818+*-----*

0040 1820+PL1EOT EQU X'40' RECORD TRUNCATE IND. (IN \$BPOLD)
 0014 1821+WKDTRFD EQU 20 DTF ADDRESS
 0016 1822+BSRJ2D EQU 22 WORK AREA INDICATORS
 0020 1823+JF2SAR EQU X'20' STOP AUTO RESPONSE. (IN BSRJ2D)
 001C 1824+WKIOBD EQU 28 ADDRESS OF LAST IOB.
 001A 1825+WKERRD EQU X'1A' ERROR RETRY COUNT
 007B 1826+DCOUNT EQU X'7B' DELAY COUNT
 0001 1827+F3AUTO EQU X'01' AUTO RESPONSE ACTIVE.(IN \$BWFG3)
 0004 1828+F3MOVE EQU X'04' RECORD MOVE INDICATOR(IN \$BWFG3)
 0020 1829+INTIOB EQU 32 ADDR OF LAST IOB TO INTERRUPT.
 0023 1830+BSFLGD EQU 35 WORK AREA FLAGS.
 0010 1831+ACTIVE EQU X'10' BSCA ENABLED. (IN BSFLGD)
 0004 1832+FWDABT EQU X'04' FORWARD ABORT IND. (IN BSFLGD)
 0024 1833+ACKSD EQU 36 ACK NUMBER AND OTHER STATUS.
 0004 1834+AKERR EQU X'04' ERROR, LINE DISABLED.(IN ACKSD)
 0084 1835+WKDELL EQU 132 WORK AREA ERROR LOG LIST.
 0082 1836+BSFL4D EQU X'82' FLAG BYTE # 4.
 0001 1837+ETBRCV EQU X'01' LAST BLOCK ENDED IN ETB.
 0010 1838+JF2SR2 EQU X'10' INTERNAL STOP AUTO RESPONSE.
 0020 1839+UNREC EQU X'20' U-NS ERROR RECOVERY BIT

1840+*-----*
 1841+* BSCA POLL / SELECT LIST EQUATES. *
 1842+*-----*

0000 1844+POLID EQU 0 ENTRY ID IN LIST.

\$CC4#2 EQUATES -- BSCA COMMON VALUES

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	45
		0001	1845+	POLCNT	EQU 1	NUMBER OF TERM CHARS IN ENTRY.			
		0002	1846+	POLCH1	EQU 2	1ST TERM CHAR.			
		0003	1847+	POLCH2	EQU 3	2ND TERM CHAR.			
		0003	1848+	POLNXT	EQU 3	# CONSTANT BYTES IN EVERY ENTRY.			
		00FF	1849+	WRAP	EQU X'FF'	END OF WRAP LIST INDICATOR.			
		00FE	1850+	ONETIM	EQU X'FE'	END OF OPEN LIST INDICATOR.			
		00F0	1851+	POLEND	EQU X'F0'	CODES RESV. FOR SYST. F0-FF.			
		00F1	1852+	POLACT	EQU X'F1'	USE ONLY ACTIVE ENTRIES.			
			1853+*			-----*			
			1854+*		BSCA CHECK LIST EQUATES.				*
			1855+*			-----*			
		0000	1857+	CKLSTS	EQU 0	CHECK LIST STATUS BYTE.			B
		0002	1858+	CKLDTF	EQU 2	CHECK DTF @.			B
		0003	1859+	CKLEN	EQU 3	CHECK LIST ENTRY LENGTH.			B
		0080	1860+	CKLSKP	EQU X'80'	CHECK LIST: SKIP ENTRY BIT.			B
		0020	1861+	CKLAST	EQU X'20'	CHECK LIST: LAST ENTRY INDICATOR			
			1862+*			-----*			
			1863+*		ID'S FOR TRANSIENT FORM OF RESIDENT FUNCTION.				*
			1864+*			-----*			
		0001	1866+	CTTASV	EQU 1	TRANSIENT FORM OF 'CMTASV'.			
		0003	1867+	CTREJC	EQU 3	TRANSIENT FORM OF 'CMREJC'.			
		0004	1868+	CTSTOR	EQU 4	TRANSIENT FORM OF 'CMSTOR'.			
		0005	1869+	CTBTAS	EQU 5	TRANSIENT FORM OF 'CMBTAS'.			
		0006	1870+	CTFORB	EQU 6	TRANSIENT FORM OF 'CMFORB'.			
		0007	1871+	CTRLB	EQU 7	TRANSIENT FORM OF 'CMFIGL'.			
			1872+*****			-----*			
			1873+*		TERMINAL DEPENDENT EQUATES.				*
			1874+*****			-----*			
			1876+*			-----*			
			1877+*		3270 COMMANDS.				*
			1878+*			-----*			
		0027	1880+	ESC	EQU X'27'	ESCAPE IDENTIFICATION.			
		00F7	1881+	COPY	EQU X'F7'	COPY COMMAND.			
		00F1	1882+	WRITE	EQU X'F1'	WRITE COMMAND.			
		006F	1883+	ERSUPT	EQU X'6F'	ERASE UNPROTECTED COMMAND.			
		00F5	1884+	ERSWRT	EQU X'F5'	ERASE/WRITE COMMAND.			
			1886+*			-----*			
			1887+*		3270 ORDERS.				*
			1888+*			-----*			
		0013	1890+	IC	EQU X'13'	INSERT CURSOR.			
		001C	1891+	DUP	EQU X'1C'	DUP CHAR. (KEYBOARD ONLY).			
		0012	1892+	EUA	EQU X'12'	ERASE UNPROTESTED TO ADDRESS.			
		001E	1893+	FM	EQU X'1E'	FIELD MARK (KEYBOARD ONLY).			
		0005	1894+	PT	EQU X'05'	PROGRAM TAB.			
		003C	1895+	RA	EQU X'3C'	REPEAT TO ADDRESS.			
		0011	1896+	SBA	EQU X'11'	SET BUFFER ADDRESS.			
		001D	1897+	SF	EQU X'1D'	START OF FIELD.			
			1899+*			-----*			
			1900+*		3270 BUFFER OFFSETS.				*

\$CC4#2 EQUATES -- BSCA COMMON VALUES

1901+*-----*

0000	1903+CU	EQU	0	CONTROL UNIT IDENTIFICATION.
0001	1904+DA	EQU	1	DEVICE ADDRESS.
0000	1906+AID	EQU	0	AID CHARACTER POSITION.
0000	1907+SWAID	EQU	0	AID CHAR POSITION FOR SWITCHED.

1909+* EBCDIC AID VALUES.

006D	1911+AIDCLR	EQU	X'6D'	AID FOR CLEAR KEY.
007D	1912+AIDENT	EQU	X'7D'	AID FOR ENTER KEY.
00E6	1913+AIDCRD	EQU	X'E6'	AID FOR CARD READER DATA.
00F0	1914+AIDTST	EQU	X'F0'	AID FOR RFT KEY.
00F1	1915+AIDPF1	EQU	X'F1'	AID FOR PF1 KEY.

1917+* ASCII AID VALUES.

005F	1919+ASCCLR	EQU	X'5F'	AID FOR CLEAR KEY.
0027	1920+ASCENT	EQU	X'27'	AID FOR ENTER KEY.
0004	1922+CORSOR	EQU	4	CORSOR POSITION.
0005	1923+TEXT	EQU	5	FIRST TEXT POSITION.
0003	1924+SWTEXT	EQU	3	FIRST TEXT POS. SWITCHED LINE.

1926+* OR

0001	1928+SNSTAS	EQU	1	SENSE/STATUS MESSAGE ID.
6CD9	1929+SSID	EQU	C'%R'	SENSE/STATUS CHARACTERS.
0002	1930+SSTX	EQU	2	STX IN STATUS MESSAGE.
0003	1931+SSCU	EQU	3	CONTROL UNIT ID.
0004	1932+SSDA	EQU	4	DEVICE ADDRESS.
0005	1933+SSBYT1	EQU	5	BYTE 1 SENSE BYTE.
0006	1934+SSBYT2	EQU	6	BYTE 2 STATUS BYTE.
0007	1935+SSETX	EQU	7	ETX IN STATUS MESSAGE.

1937+*-----*

1938+* 3735 BUFFER OFFSTES. *

1939+*-----*

0001	1940+S375ID	EQU	1	MESSAGE IDENTIFIER.
0002	1941+S375NL	EQU	2	-NUL- FOLLOWING IDENTIFIER.
0003	1942+S375B1	EQU	3	STATUS BYTE ONE.
0004	1943+S375B2	EQU	4	STATUS BYTE TWO.

1944+*****

1945+* *

1946+* 3741 BUFFER OFFSETS *

1947+* *

1948+*****

0001	1949+S374ST	EQU	1	STATUS MESSAGE IDENTIFIER
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1951+*-----*

1952+* EQUATE FOR NUMBER OF CCP FORMAT CONTROL CHAR TO 3270. *

1953+*-----*

\$CC4#2 EQUATES -- BSCA COMMON VALUES

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0016 1954+FORMTL EQU 22

OF FORMAT CONTROL CHARS.

1956 * \$DFOB
 1957+* BSCA EQUATES. RELEASE-4

1959+* EQUATES IN IOB
 0005 1960+\$BIFLA EQU 5 FLAG A.
 0004 1961+\$BIFST EQU X'04' FIRST IN FLAG A.
 0002 1962+\$BIOBQ EQU X'02' OFFSET TO IOB OPERATION.
 0083 1963+\$BIRVI EQU X'83' RCVI OPERATION.
 0007 1964+\$BICMP EQU X'07' OFFSET TO IOB COMPLETION.

1966+* EQUATES FOR WORK AREA.
 0001 1967+\$BWK EQU 1 WORK AREA REG.
 001D 1968+\$BWFG3 EQU 29 FLAG 3.
 0023 1969+\$BWLGD EQU 35 FLAG BYTE
 0010 1970+\$BPATV EQU X'10' LINE ACTIVE INDICATOR
 0008 1971+\$BWRFT EQU X'08' RFT IND. IN FLAG 3.
 0017 1972+\$BPOLD EQU X'17' OFFSET TO POLL INDICS IN WKA.
 0004 1973+\$BPCNC EQU X'04' CANCEL POST INDIC.
 0010 1974+\$BPRES EQU X'10' RESET POLL INDIC.
 0059 1975+\$BWKMC EQU X'59' OFFSET FOR IDA INDICS IN WKA.
 00B6 1976+\$BWSCT EQU X'B6' TEXT SENT COUNTER FOR CCP.
 00BA 1977+\$BWRCT EQU X'BA' TEXT RECEIVED COUNTER FOR CCP.

1979+* EQUATES FOR \$BCPL AND \$BCSW MACROS.
 0000 1980+\$BPATR EQU 0 CHANGE LIST ATTRIBUTE OFFSET.
 0080 1981+\$BPACT EQU X'80' OFF-ACTIVATE;ON-DEACTIVATE.
 0040 1982+\$BPEXT EQU X'40' OFF-EXACT,ON-FIRST N CHARS.
 0002 1983+\$BPDTF EQU 2 CHANGE LIST DTF ADDR OFFSET.
 0003 1984+\$BPNUM EQU 3 CHANGE LIST OFFSET TO LENGTH.
 00FE 1985+\$BPEND EQU X'FE' END OF POLL/ADDR OR SW ID LIST.
 0000 1986+\$BPNOP EQU X'00' NO-OP JUMP INSTR.
 0080 1987+\$BPENA EQU X'80' ON-ACTIVE;OFF-INACT. LIST ATTR.
 0001 1988+\$BPRM1 EQU 1 REG EQU FOR MACRO PARM LIST.
 0002 1989+\$BLST2 EQU 2 REG EQU FOR POLL OR ID LIST- XR2
 0002 1990+\$BLIST EQU 2 REG EQU FOR PTR TO LIST IN XR2.

1992+* EQUATES FOR \$RFT MACRO
 0003 1993+\$BRCNT EQU 3 COUNT OF NUMBER OF TRANSMISSIONS
 000F 1994+\$BHX0F EQU X'0F' MASK TO CHECK FOR DECIMAL NUMBER

1996+* GENERAL EQUATES.
 0080 1997+\$BDISA EQU X'80' ENABLE BSCA.
 00C0 1998+\$BENAB EQU X'C0' DISABLE BSCA.
 00FF 1999+\$BFOX EQU X'FF' EQUATE FOR 'FF'.
 0001 2000+\$BBAC1 EQU 1 USER REGISTER SAVE (REG 1).
 0002 2001+\$BPRS2 EQU 2 PARAMETER REGISTER SAVE (REG 2).
 0006 2002+\$B2SEC EQU X'06' TWO SEC TIME FOR IDA.

2004+* EQUATES FOR \$CANB MACRO
 0008 2005+\$BLIN2 EQU X'08' LINE-2
 0016 2006+\$BTREQ EQU X'16' TRUE AND EQUAL
 0001 2007+\$BDAON EQU X'01' D.A. SUPPORTED.
 0088 2008+\$BTOSC EQU X'88' TWO SEC TIME OUT.
 0011 2009+\$BTRNQ EQU X'11' TRUE AND NOT EQUAL

	0002	2010+\$BDTF	EQU	2		DTF REG.
	0001	2011+\$BIOB	EQU	1		IOB REG.
	0001	2012+\$BONE	EQU	1		CONSTANT ONE
	0003	2013+\$BTRE	EQU	3		CONSTANT THREE
		2015+*			OFFSETS FOR BSCA DTF.	
	0000	2016+\$BDDEV	EQU	0		DEVICE ID.
	0001	2017+\$BDUPS	EQU	1		UPSI.
	0002	2018+\$BDATT	EQU	2		ATTRIBUTE BYTE 1.
	0080	2019+\$BCINP	EQU	X'80'		INPUT FILE.
	0040	2020+\$BCOUT	EQU	X'40'		OUTPUT FILE.
	00C0	2021+\$BCCNV	EQU	X'C0'		CONVERSATIONAL FILE.
	0020	2022+\$BCITB	EQU	X'20'		ITB MODE.
	0010	2023+\$BCRAN	EQU	X'10'		TRANSPARENCY.
	0008	2024+\$BCGET	EQU	X'08'		GET FILE.
	0004	2025+\$BCASK	EQU	X'04'		ON-ASCII; OFF-EBCDIC.
	0001	2026+\$BCASM	EQU	X'01'		ASSEM DTF.
	0003	2027+\$BDATR	EQU	3		ATTRIBUTE BYTE 2.
	0088	2028+\$BCMCN	EQU	X'88'		MULTIPOINT CONTROL STATION.
	0080	2029+\$BCMPT	EQU	X'80'		MULTIPOINT TRIBUTARY.
	0020	2030+\$BCMAN	EQU	X'20'		MANUAL LINE.
	0010	2031+\$BCANS	EQU	X'10'		ANSWER LINE.
	0008	2032+\$BCSWI	EQU	X'08'		SWITCHED LINE.
	0004	2033+\$BCUSD	EQU	X'04'		FILE USED.
	0002	2034+\$BCACT	EQU	X'02'		FILE ACTIVE.
	0001	2035+\$BCOPN	EQU	X'01'		FILE OPENED.
	0005	2036+\$BDCHN	EQU	5		POST OPEN DTF CHAINING PTR.
	0007	2037+\$BDNXT	EQU	7		DTF CHAINING POINTER.
	0009	2038+\$BDWK1	EQU	9		WORK AREA.
	000B	2039+\$BDWK2	EQU	11		WORK AREA.
	000D	2040+\$BDWKB	EQU	13		ADDRESS OF USER'S LOGICAL BUFF.
	000E	2041+\$BDCMP	EQU	14		COMPLETION CODE.
	0000	2042+\$BCREQ	EQU	X'00'		REQUEST ACCEPTED.
	0040	2043+\$BCDNE	EQU	X'40'		NORMAL COMPLETION.
	0041	2044+\$BCUER	EQU	X'41'		USER ERROR.
	0042	2045+\$BCEOT	EQU	X'42'		END OF FILE.
	0043	2046+\$BCBID	EQU	X'43'		INVALID ID.
	0044	2047+\$BCNEG	EQU	X'44'		NEGATIVE RESPONSE TO POLL/ADDR.
	0045	2048+\$BCNON	EQU	X'45'		NO RESPONSE TO POLL/ADDR.
	0046	2049+\$BCCRP	EQU	X'46'		CONV REPLY PENDING.
	0047	2050+\$BCNDT	EQU	X'47'		NO DATA FOR CONV GET.
	0048	2051+\$BCOLT	EQU	X'48'		INVALID RFT REQUEST.
	0049	2052+\$BCNAC	EQU	X'49'		NO ACT ENTRY IN POLL LIST.
	004A	2053+\$BCIGN	EQU	X'4A'		REQUEST IGNORED.
	004B	2054+\$BCASC	EQU	X'4B'		INVALID ASCII CHARACTER.
	004C	2055+\$BCNCN	EQU	X'4C'		NO-CONNECTION.
	004D	2056+\$BCCAL	EQU	X'4D'		INVALID REQUEST.
	004E	2057+\$BCLST	EQU	X'4E'		DELAY COUNT EXCEEDED.
	004F	2058+\$BCERR	EQU	X'4F'		PERM ERROR.
	0050	2059+\$BCTIM	EQU	X'50'		NO RESP FROM REMOTE DEV.
	0051	2060+\$BCDAT	EQU	X'51'		DATA CHECK.
	0052	2061+\$BCLOS	EQU	X'52'		LOST DATA.
	0053	2062+\$BCCON	EQU	X'53'		LOST CONNECTION.
	0054	2063+\$BCRSP	EQU	X'54'		INVALID RESP FROM REMOTE DEV.

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	50
		0055	2064+	\$BCADP	EQU	X'55'			ADAPTER CHECK.
		0056	2065+	\$BCCMP	EQU	X'56'			NO COMPLETIONS IN CHECK LIST.
		0057	2066+	\$BCACD	EQU	X'57'			NO ACTIVE DTFS IN CHECK LIST.
		0058	2067+	\$BCRLE	EQU	X'58'			MAXIMUM RECORD LENGTH EXCEEDED.
		000F	2068+	\$BDOPC	EQU	15			OPERATION CODE.
		0080	2069+	\$BOGET	EQU	X'80'			GET.
		0081	2070+	\$BOGBK	EQU	X'81'			GET-BLOCK.
		0040	2071+	\$BOPUT	EQU	X'40'			PUT.
		0041	2072+	\$BOPEB	EQU	X'41'			PUT END OF BLOCK.
		0042	2073+	\$BOPEF	EQU	X'42'			PUT END OF FILE.
		0044	2074+	\$BOPEW	EQU	X'44'			PUT EOT TO WACK RESPONSE.
		0011	2075+	\$BDMRL	EQU	17			MAXIMUM RECORD LENGTH.
		0012	2076+	\$BDADD	EQU	18			SPECIAL USE INDICATORS
		0001	2077+	\$BCAA1	EQU	X'01'			ADD ON AREA ON DTF
		0002	2078+	\$BCPOL	EQU	X'02'			POLLING MODULES RESIDENT
		0004	2079+	\$BCOFL	EQU	X'04'			TRUNCATE RECORD INDICATOR.
		0008	2080+	\$BCRCL	EQU	X'08'			SPAN INDICATOR FOR RECORD LENGTH
		0010	2081+	\$BCTWO	EQU	X'10'			END OF BLOCK INDICATOR.
		0080	2082+	\$BCSWD	EQU	X'80'			ID LIST FOR SWICHD LINE
		0014	2083+	\$BDDCH	EQU	20			*ADDRESS OF DIAL NUMBER OR
		0014	2084+	\$BDPSC	EQU	20			*POLL/ADDR CHARACTERS OR
		0014	2085+	\$BDLST	EQU	20			*ADDRESS OF POLL/ADDR LIST.
		0015	2086+	\$BDDCC	EQU	21			*LENGTH OF DIAL NUMBER OR
		0015	2087+	\$BDIND	EQU	21			*POLLING/OR ADDRESSING ID.
		0017	2088+	\$BDRID	EQU	23			*ADDR OF RCV ID OR ID LIST OR
		0017	2089+	\$BDCNT	EQU	23			*LIST COUNT.
		0018	2090+	\$BDRLN	EQU	24			LEN OF RCV ID OR ENTRY SELECTOR.
		0018	2091+	\$BDLID	EQU	24			LAST ID OR POLL/ADDR FUNCTION.
		001A	2092+	\$BDSID	EQU	26			ADDRESS OF SEND ID.
		001B	2093+	\$BDSLN	EQU	27			LENGTH OF SEND ID.
		001D	2094+	\$BDDLY	EQU	29			DELAY COUNT.
		001F	2095+	\$BDREL	EQU	31			RECORD LENGTH.
		0021	2096+	\$BDBKL	EQU	33			BLOCK LENGTH.
		0023	2097+	\$BDIOB	EQU	35			ADDRESS OF IOB IN PROCESS.
		0025	2098+	\$BDBKX	EQU	37			POINT TO DATA IN BSCA BUFFER.
		0027	2099+	\$BDITB	EQU	39			ITB CHARACTER COUNT.
		002A	2100+	\$BDPRM	EQU	42			RESERVED.
		002D	2101+	\$BDRVI	EQU	45			RVI MASK AND DISPLACEMENT.
		002E	2102+	\$BDNDX	EQU	46			INDEX FOR LINE INITIALIZATION.
		0030	2103+	\$BDWKA	EQU	48			ADDRESS OF BSCA WORK AREA.
		0032	2104+	\$BDINT	EQU	50			DISK ADDR OF LINE INIT MODULE.
		0033	2105+	\$BDDED	EQU	51			WORK AREA.
		0034	2106+	\$BDAT1	EQU	52			ATTRIBUTE BYTE FOR TERMINALS.
		0001	2107+	\$BCSEP	EQU	X'01'			RECORD SEPARATOR.
		0002	2108+	\$BCSPN	EQU	X'02'			SPANNING RECORD.
		0004	2109+	\$BCNOW	EQU	X'04'			SPAN IN PROCESS.
		0008	2110+	\$BCPUT	EQU	X'08'			PUT SPAN FILE.
		0010	2111+	\$BCRES	EQU	X'10'			SPAN RESTORE NECESSARY.
		0040	2112+	\$BCPLR	EQU	X'40'			POLLING RESIDENT.
		0035	2113+	\$BDSEP	EQU	53			RECORD SEPARATOR.
		0037	2114+	\$BDSBF	EQU	55			SAVE AREA FOR USER BUFFER ADDR.
		0039	2115+	\$BDSRL	EQU	57			SAVE AREA FOR RECORD LENGTH.
		003B	2116+	\$BDRFT	EQU	59			SAVE AREA FOR OLT PARM.
		003D	2117+	\$BDTSA	EQU	61			ADDR OF TERM LOG AREA.
			2118+*			ADD ON AREA OF DTF			
		003F	2119+	\$BDRL0	EQU	63			ADDR OF RESIDENT L0.

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	51
		0041	2120+	\$BDRCL	EQU 65				ADDR OF RESIDENT CLOSE.
		0043	2121+	\$BDARA	EQU 67				AUTO RESPONSE MODULE.
		0044	2122+	\$BDERR	EQU 68				RETRY COUNT.
		0046	2123+	\$BDT1A	EQU 70				SAVE ADDRESS OF OLT CS.
		0048	2124+	\$BDEX@	EQU 72				CCP USER EXIT ADDRESS.
		0049	2125+	\$BD375	EQU 73				EOT SENT TO PERM ERROR
			2126 *	\$E038	MXL-00000000000000				CCP00284
			2127+*						BEGIN MACRO '\$E038' 1/16/79 @01
			2128+*		-----FIXED PORTION OF TRANSIENT LIST-----*				
		000C	2130+	CC4AB	EQU 12				ACCEPT INPUT POST PRE-PROCESSOR
		000F	2131+	CC4A2	EQU 15				ALLOCATION CONTROL
		0012	2132+	CC4GA	EQU 18				GET ATTRIBUTES
		0015	2133+	CC4OP	EQU 21				USER FILE OPEN
		0018	2134+	CC4R1	EQU 24				COMMAND PROCESSOR CONTROL
		001B	2135+	CC4PR	EQU 27				COMMAND PROCESSOR RETURN
		001E	2136+	CC4TD	EQU 30				TERMINATION CONTROL ROUTINE
		0021	2137+	CC4WC	EQU 33				USER T-P SWITCHED LINE CONNECT
		0024	2138+	CC4WR	EQU 36				T-P TRANSLATION ERROR
		0027	2139+	CC4MP	EQU 39				IGNORE PUT TO ERP T-P DEVICE
		002A	2140+	CC4UN	EQU 42				BSCC POINT-TO-POINT LINE INIT@02
			2141+*		-----GETMAIN RECOVERY TRANSIENT PORTION OF PGM LIST-----@02				
		002D	2142+	CC4GR	EQU 45				GETMAIN RECOVERY TRANSIENT
			2144+*		-----BSCA PORTION OF PROGRAM LIST-----*				
		0030	2146+	CC4BA	EQU 48				3270 SAVE STATUS
		0033	2147+	CC4BB	EQU 51				BSCA OUTPUT RECORD FORMATTING
		0036	2148+	CC4BC	EQU 54				BSCA STOP POLLING
		0039	2149+	CC4BE	EQU 57				BSCA ERROR RECOVERY
		003C	2150+	CC4BP	EQU 60				BSCA PURGE
		003F	2151+	CC4BQ	EQU 63				BSCA STOP POLLING QUEUE
		0042	2152+	CC4BR	EQU 66				BSCA USER T-P REQ VALIDATION
		0045	2153+	CC4B5	EQU 69				BSCA 3735 SENSE STATUS
		0048	2154+	CC4B0	EQU 72				BSCA 3270 COMMAND FORMATTING
		004B	2155+	CC4S0	EQU 75				BSCA 3275 COMMAND FORMATTING
			2157+*		-----DEFINE THE EQUATE FOR THE # OF ENTRIES IN THE LIST-----*				
		0016	2159+	LSTSIZ	EQU 22				# OF ENTRIES IN TRANSIENT LIST
			2160+*						END MACRO '\$E038'
			2161 *	\$E070					CCP00285
			2162+*	R-04,C-00	CHANGE LEVEL				
		0000	2163+	CMBEG	EQU *				
		0000	2164+		ENTRY CMBEG				
0000	5BC3D4	0002	2165+	CMEYE	DC CL3 '\$CM'				EYE CATCHER
0003	F0F5	0004	2166+		DC CL2 '05'				MOD LEVEL
		0005	2168+		ENTRY \$CC4CM				ENTRY POINT FOR CM
		0F66	2169+		ENTRY \$CC4FR				COMMON PL/RECA FREEMAIN ENTRY
			2170+*						* POINT FOR TRANSIENT AND CM.
			2172+*		ENTRY POINTS IN CCP \$SBMCH USED FOR INITIALIZATION BY MLTA AND MLMP				

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	52
		124B	2174+		ENTRY \$\$BMCH				
			2175+*						ENTRY FOR CCP VERSION OF COMMON
		15E2	2176+		ENTRY CHBMHL				* MLMP/MLTA CHECK ROUTINE.
			2177+*						LOCATION FOR MLMP/MLTA STORE
		1283	2178+		ENTRY CHBMBS				* BRACKET HALT (NOT ISSUED)
		15D1	2179+		ENTRY SAVCAT				ENTRY WHERE MLMP STORES ADDR B
			2180+*						SAVE AREA FOR CAR AND TAR
									* OF BSCA WAIT ROUTINE. B
			2183+*	BSCA ONLY	EXTRNS:				
		0001	2184+		EXTRN \$\$BSMS				SIO ENTRY FOR MLMP B
		0002	2185+		EXTRN \$CC4BT(3)				EXTRN SO ENTRY TO TRACE WILL B
		0003	2186+		EXTRN \$CC4M1(3)				EXTRN FOR MINI-MLMP
		0004	2187+		EXTRN \$CC4M2(3)				EXTRN FOR PRIVILEGED MINI-MLMP B
			2188+*						* NOT CAUSE LKED HALT B

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2190+*****
2191+*      C O M M U N I C A T I O N S   M A N A G E R      *
2192+*****

2194+*****
2195+*
2196+*  MODULE   -  $CC4CM      *
2197+*
2198+*  FUNCTION - SCHEDULE AND CONTROL ALL TELEPROCESSING COMMUNICATION *
2199+*           TO AND FROM MLTA AND BSCA TERMINALS ATTACHED TO CCP.      *
2200+*           SCHEDULE AND CONTROL ALL I/O TO THE SYSTEM CONSOLE.      *
2201+*
2202+*  ENTRY POINTS :      *
2203+*      $CC4CM - MAIN ENTRY POINT.      *
2204+*           DISPATCHED BY STARTUP AT THIS POINT.  AFTER INITIAL*
2205+*           DISPATCH $CC4CM WILL WAIT FOR MORE WORK JUST      *
2206+*           FOLLOWING THIS POINT AND WILL RECEIVE CONTROL      *
2207+*           AT THIS WAIT POINT AFTER OP END OR NEW REQUEST      *
2208+*           CAUSES $CMECB TO BE POSTED.      *
2209+*
2210+*      $CC4FR - FREEMAIN PL AND HOLD BUFFER ENTRY POINT.      *
2211+*           BRANCHED TO BY $CC4CM AND CM TRANSIENTS.      *
2212+*
2213+*  GENERATION - THIS MODULE IS ASSEMBLED AT CCP GENERATION.      *
2214+*      $CC4CM IS CREATED BY MACROS WHICH ARE NAMED $E0NN WHERE      *
2215+*      NN IS A NUMERIC IDENTIFIER OF THE MACRO.      *
2216+*
2217+*      CODE IN EACH MACRO IS EITHER INCLUDED OR EXCLUDED BASED      *
2218+*      ON THE GLOBALS SET BY THE FIRST PASS OF GENERATION.  THE      *
2219+*      CODE IS IDENTIFIED IN COLUMNS 69-71 BY ALPHABETICS WHICH      *
2220+*      IDENTIFIES THE GENERATION OPTION THAT CAUSES ITS INCLUSION      *
2221+*
2222+*      THE ALPHABETIC IDENTIFIERS ARE AS FOLLOWS:      *
2223+*
2224+*      COLUMN 71 :      *
2225+*          B - BSCA      *
2226+*          M - MLTA      *
2227+*          2 - TEST FOR MLTA OR BSCA      *
2228+*
2229+*      COLUMN 68-70 MAY INCLUDE IN ANY ORDER OR COMBINATION:      *
2230+*          C - BSCA OR MLTA CONTROL STATION OR STATION CONTROL      *
2231+*          D - BSCA OR MLTA DATA MODE ESCAPE      *
2232+*          L - CODE NECESSARY FOR COMBINATION OF LINE TYPES      *
2233+*          MIN - CODE PRESENT ON MINRES SYSTEM ONLY.      *
2234+*          R - RESIDENT CODE MADE TRANSIENT FOR MINRES-YES.      *
2235+*          S - BSCA OR MLTA SWITCHED LINE SUPPORT.      *
2236+*          Y - CODE TO HANDLE MULTIPLE DTFS.  EXCLUDED IN 1 LINE SYS. *
2237+*          / - OR      (FOR COMBINATION OF 2 OTHER IDENTIFIERS      *
2238+*
2239+*          A - BSCA ASCII SUPPORT      *
2240+*          F - BSCA 3270 DFF SUPPORT      *
2241+*          G - BSCA GET MESSAGE SUPPORT      *
2242+*          I - BSCA ITB (INTERMEDIATE TEXT BLOCK) SUPPORT      *
2243+*          N - BSCA INTERVAL POLLING      *
2244+*          P - BSCA POINT TO POINT SUPPORT      *

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2245+*      T - BSCA MULTI POINT TRIBUTARY SUPPORT      *
2246+*      U - BSCA CPU TO CPU SUPPORT                *
2247+*      W - BSCA 3270 PROGRAM REQUEST UNDER FORMAT (PRUF) *
2248+*      X - BSCA TRANSPARENCY SUPPORT                *
2249+*      0 - BSCA 3270 SUPPORT                        *
2250+*      5 - BSCA 3735 SUPPORT                        *
2251+*      7 - BSCA 3741 SUPPORT                        *
2252+*                                          *
2253+*      B - MLTA BUFFERED RECEIVE SUPPORT            *
2254+*      V - MLTA MOVE SUPPORT (NO TRANSLATE)        *
2255+*      1 - MLTA 1050 SUPPORT                        *
2256+*      4 - MLTA 2741 SUPPORT                        *
2257+*                                          *
2258+*  EXTERNAL REFERENCES:                            *
2259+*      $CCCOM:                                        *
2260+*      FIELDS IN $CMWK                                *
2261+*      @CMTCB,@CPTCB                                  *
2262+*      @CKLST                                          *
2263+*      @LCB#1                                          *
2264+*      @PRLQ                                          *
2265+*      #CMERP                                          *
2266+*      #GMS                                           *
2267+*      #OPEND                                          *
2268+*                                          *
2269+*  CHANGE ACTIVITY - $CC4CM.                          *
2270+*  RELEASE 1 :                                        *
2271+*  @01/S309284/CORRECTS A -09 (WAIT TIME EXCEEDED) ERROR. *
2272+*  @02/S309280/ENSURES A RVI IS SENT ON GET/RVI OPERATION. *
2273+*  @03/S309527/ENSURES THE CORRECT TERMINAL IS POLLED ON CPU-TO-CPU. *
2274+*  @04/          /CORRECTS DATA TRUNCATED INDICATOR SETTING. *
2275+*  @05/S309470/CORRECTS TERMINALS DROPPING FROM POLL LIST. *
2276+*  @06/S309822/CORRECTS CONTINUOUS -14 RETURN CODE FROM 3270X PRINTER.*
2277+*  @07/S309525/CANCELS A 2 SECOND TIME OUT WITH NO P.L.'S ON DA. *
2278+*  @08/          /CORRECTS A LOOP IN $CC4NQ.          *
2279+*  RELEASE 3 :                                        *
2280+*  @09/OS0309 /SUPPORT FOR BUSY 328X PRINTERS.        *
2281+*  @10/OS0330 /SUPPORT FOR LOWER CASE INPUT WITH THE PF1 KEY. *
2282+*  @11/OS0311 /SUPPORT FOR AUTOMATIC ERP BYPASS.      *
2283+*  @12/S311275/GIVES USER AN OPTION TO SET OFF TUBRUF AT ACCEPT INPUT.*
2284+*  @13/S311871/CORRECTS A -10 ON A BSCC ONLY GEN.    *
2285+*  @14/S3          /CORRECTS PROCCHK IF STOP INVITE AND CLEAR KEY. *
2286+*  @15/S310611/CORRECTS A SYSTEM HANG CONDITION AFTER PUT OPERATION. *
2287+*  @16/OS0364 /TERMINATES THE SYSTEM IF A POLL FOR STATUS FAILS. *
2288+*  @17/S312525/CORRECTS TRANSPARENCY HANDLING.        *
2289+*  RELEASE 4 :                                        *
2290+*  @18/OS4102 /PORTLINE AND MULTIPOINT ENHANCEMENT FOR RELEASE 4. *
2291+*  @19/INCR/OS4301 - TP BUFFER IMPROVEMENTS FOR RELEASE 4 *
2292+*  RELEASE 5                                          @20
2293+*  @20/INCR/OS5107 - U-NS ERROR RECOVERY IMPROVEMENT  $E072 @20
2294+*  @21/APAR/S315205- LOOP IN CM                      $E092 @21
2295+*  @22/APAR/S315705- U-GE ON TASK TO TASK            $E093 @22
2296+*  @23/APAR/S315837- U-FE ON TASK TO TASK            $E093 @23
2297+*  @24/APAR/S315721- U-GE ON TASK TO TASK            $E080 @24
2298+*  @25/APAR/S316069- PREVENT RED LIGHT WITH EXTRA OPEND $E093 @25
2299+*  @26/APAR/S316097- SPANNING RECORDS                 $E093 @26
2300+*  @27/APAR/S316347- LOSE RECORD NON-DFP PRINT      $E085 @27

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\$CC4#2 \$E070/\$CC4CM/CONTROL LOGIC

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 55

2301+* @28/APAR/S315667- ICF CHANGES (SYSTEM/3 TO SYSTEM/34) \$E092 @30
2302+* @29/APAR/S316540- DA STOPS POLLING \$E080 @29
2303+* @30/APAR/S316650- U-GE HALT \$E092 @30
2304+*****

2306+*****
 2307+* \$CC4CM ENTRY POINT *
 2308+*****

		0005	2310+	\$CC4CM EQU	*	'CM' ENTRY POINT.
0005	3B 82 15B5		2311+	SBF	CMSWIT,CMSPSI+CMFMPS	RESET STOP II AND FM POST FLAGS
0009	3A 40 4729		2312+	SBN	#CMSWT,#CMFMD	RESET \$CC4GR TO 1ST LCB.
000D	3D 00 47AB		2313+	CLI	CORCNT,NOBIT	CM WAITING FOR CORE ?
0011	F2 81 04		2314+	JE	CMNWAT	NO - EXECUTE WAIT.
0014	3B 20 473C		2315+	SBF	\$CMFM,SKIP	SET TO EXECUTE FREE MAIN POST.
		0018	2316+	CMNWAT EQU	*	* LOCAL
0018	C2 01 15BE		2317+	LA	ECBLST,XR1	ADDRESS OF ECB WAIT LIST
001C	F4 10 00		2318+	SVC	0	WAIT FOR WORK - RECEIVE CONTROL
001F	04	001F	2319+	DC	AL1(WAITRB)	* WHEN:
			2320+*			* NEW TP REQUEST (\$CC4II/IS)
			2321+*			* TP OP END (\$CC4IB/IM)
			2322+*			* FREEMAIN DONE AND
			2323+*			* REQUEST WAITING
			2324+*			* FOR SPACE. (\$CC4FM)
			2325+*		SET OFF WAIT BITS TO PREVENT TASK FROM BEING DISPATCHED AT	
			2326+*		ANOTHER WAIT POINT BECAUSE OF A POST TO ONE OF THESE ECBS.	
0020	38 40 473C		2328+	TBN	\$CMFM,POST	IF FREEMAIN HAS OCCURRED AND
0024	3D 00 47AB		2329+	CLI	CORCNT,NOBIT	* CM IS WAITING FOR ONE,
0028	F2 91 04		2330+	JC	CMCKCN,FLSOEQ	NO-GO CHECK COUNT
002B	3A 80 15B5		2331+	SBN	CMSWIT,CMFMPS	YES- SET INTERNAL FREEMAIN BIT.
		002F	2332+	CMCKCN EQU	*	* LOCAL
002F	3B C0 473C		2333+	SBF	\$CMFM,WAIT+POST	RESET FREEMAIN ECB WAIT/POST.
0033	3B C0 4739		2334+	SBF	\$CMECB,WAIT+POST	RESET GENERAL ECB WAIT/POST.
0037	3C 20 1600		2335+	MVI	TIMIOB+7,SKIP	SET TO SKIP TIMER POSTING NB
003B	F2 01 04		2336+	JNE	CMNOZ0	IF CORE COUNT > 0 - JUMP
003E	3C 20 473C		2337+	MVI	\$CMFM,SKIP	SET TO SKIP FREE MAIN POST
		0042	2338+	CMNOZ0 EQU	*	*
			2339+*		BEGIN BY CHECKING FOR OP ENDS	

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2341+*****
2342+* TITLE-- CONTROL LOGIC FOR $CC4CM. *
2343+* *
2344+* FUNCTION--DISPATCH WORK TO SECTIONS OF RESIDENT $CC4CM. *
2345+* *
2346+* OPERATION-- *
2347+* . IF OPERATION HAS COMPLETED: *
2348+* . SET UP BSCA DTF *
2349+* . CALL IOCS CHECK ROUTINE TO GET DATA. *
2350+* . IF '56' RETURN CODE (NOT COMPLETE), ADJUST OP END *
2351+* COUNT AND CHECK FOR OTHER OP ENDS. *
2352+* . IF DATA RECEIVED, EXIT TO CMBOPE (BSCA) OR CMMOPE (MLTA) *
2353+* . IF NEW PUT REQUEST ON QUEUED, *
2354+* . DEQUEUE PL. *
2355+* . EXIT TO CMBREQ (BSCA) OR CMMREQ (MLTA). *
2356+* . IF REQUEST WAITING FOR GETMAIN CAN BE RETRIED: *
2357+* . IF GETMAIN FAILED AT QUEUE TIME, EXIT TO *
2358+* CMBSOX (BSCA) OR CMPNWX (MLTA). *
2359+* . IF GETMAIN FAILED AT SCHEDULE TIME, EXIT TO *
2360+* CMBTBY (BSCA), OR CMMTBY (MLTA). *
2361+* . IF NEW READ REQUEST IS ON QUEUE: *
2362+* . DEQUEUE PL. *
2363+* . IF ACCEPT, GO TO CMACI. *
2364+* . EXIT TO CMBREQ (BSCA) OR CMMREQ (MLTA). *
2365+* . IF LINE WAS IN ERP AND NOW CAN BE RESCHEDULED, DO IT. *
2366+* . IF INTERVAL POLLING, SET INTERVAL AS NECESSARY. *
2367+* *
2368+* ENTRY POINTS-- *
2369+* CMOPND - CHECK FOR OP ENDS. *
2370+* CMFRMN,CMREQ - CHECK FOR REQUESTS TO HANDLE. *
2371+* *
2372+* INPUT-- *
2373+* #OPEND - OP END PENDING COUNT. *
2374+* @CKLST - ADDRESS IF CCP CHECK LIST. *
2375+* @PRLQ - QUEUE OF NEW REQUESTS FROM $CC4II OR $CC4DF. *
2376+* *
2377+* OUTPUT-- *
2378+* #OPEND - ADJUSTED FOR OP ENDS HANDLED. *
2379+* CMSDTF - DTF TO BE HANDLED. *
2380+* CMSPL - PL TO BE HANDLED. *
2381+* *
2382+* EXTERNAL REFERENCES-- *
2383+* CMDTFS - SETUP BSCA DTFS FOR CHECK ROUTINE *
2384+* CMBMCH - CHECK ROUTINE *
2385+* CMBSKP - BSCA SKIP BIT ON/OFF ROUTINE. *
2386+* $CC4GR - GETMAIN FAIL RECOVERY TRANSINET. *
2387+* CMPRLS - SEARCH @PRLQ FOR NEW PL. *
2388+* $@TMIH - START/STOP INTERVAL TIMER. *
2389+* $TRACE - SYSTEM TRACE ROUTINE. *
2390+* *
2391+* EXIT, NORMAL-- *
2392+* TO CMBOPE OR CMMOPE TO HANDLE OP END *
2393+* TO CMACI IF NEW ACCEPT REQUEST. *
2394+* TO CMBREQ OR CMMREQ TO HANDLE NEW REQUESTS. *
2395+* TO CMBSOX OR CMPNWX IF GETMAIN RETRY AT QUEUE TIME. *
2396+* TO CMBTBY OR CMMTBY IF GETMAIN RETRY AT SCHED TIME. *

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				2397+*			*
				2398+*****			
				2400+*****			
				2401+*	CHECK FOR IOCS OP ENDS.		*
				2402+*****			
			0042	2404+CMOPND	EQU *	TEST OP END COUNT	
0042	3D	00	472A	2405+	CLI #OPEND,NOBIT	CHECK OP END COUNT FOR ZERO	
0046	C0	81	0090	2406+	BE CMFRMN	IF ZERO, BR TO FREEMAIN ANALYSIS	
				2408+*****			B
				2409+*	SETUP ANY BSCA DTF WITH OP END		* B
				2410+*****			B
			004A	2412+CMOPNT	EQU *	ENTRY POINT USED BY TTASK	@18
004A	C0	87	14BB	2413+	B CMDTFS	DTF SETUP FOR BSCA LINES	B
				2415+*****			
				2416+*	CALL CHECK ROUTINE (CCP VERSION OF \$\$BMCH)		*
				2417+*****			
				2419+	B CMBMCH	CALL OP END CHECK ROUTINE	
				2421+	SLC #OPEND,X\$0001(1)	SUBTRACT 1 FROM OP END COUNT	
0052	0F	00	472A 4633	2422+	CLI \$BDCMP(,DTF),\$BCCMP	'56' COMPLETION CODE ?	B
0058	BD	56	0E	2423+	JNE CMNT56	NO-NOT 56, CHECK OTHERS.	B
				2425+	SLC LCBOPE(1,DTF),X\$0001	DECREMENT OP END BY ONE.	B
005E	8F	00	6C 4633	2426+	L LCBPL@(,DTF),PL	POINT TO THE PARM LIST.	B
0063	B5	01	52	2427+	B CMTRCE	CALL TRACE TO LOG THISOP END.	B
0066	C0	87	1042	006A 2428+	DC AL1(CCPRI B)	CCP RIB	
006A	01			006B 2429+	DC AL1(TRRIB)	TRACE SUB RIB	
006B	09			006C 2430+	DC AL1(TTMOPN)	TRACE OP END ID.	B
				006D 2432+CMEXOP	EQU *	* LOCAL	B
006D	C0	87	0042	2433+	B CMOPND	GO CHECK FOR MORE OP ENDS.	B
				0071 2435+CMNT56	EQU *	* LOCAL	B
				2436+*	-----*		
				2437+*	OP END TO HANDLE (NOT '56') - GO TO BSCA OR MLTA OP END ROUT.*		
				2438+*	-----*		
				2440+	ST CMSDTF,XR2	SAVE DTF ADDR	B
0071	34	02	15CD	2441+	SLC LCBOPE(1,DTF),X\$0001	DECREMENT LINE OP END COUNT.	B
0075	8F	00	6C 4633	2442+	L LCBPL@(,DTF),PL	POINT TO THE PARM LIST.	B
007A	B5	01	52	2443+	TBN LCBAT2(,DTF),LCBRCI	RECEIVE INITIAL ?	B
007D	B8	01	56	2444+	BF CMBOPE	NO-GO CHECK BSCA ABORT.	B
0080	C0	90	0176	2445+	MVI CMB#SB,SBN1	SET FOR POLL SKIP BIT ON.	B
0084	3C	7A	12F5				
0088	C0	87	12C7	2447+	B CMBSKP	SKIP TO POLL SKIP BIT RTN.	B
008C	C0	87	0176	2448+	B CMBOPE	GO HANDLE BSCA OP END	B

2450+*****
 2451+* CHECK FOR NEW PUT REQUEST. *
 2452+*****

0090 3D 00 4644 0090 2454+CMFRMN EQU * FREEMAIN ANALYSIS ROUTINE
 0094 F2 81 0A 2455+ CLI @PRLQ-1,NOBIT ANY NEW TP REQUESTS ?
 2456+ JE CMFRPS NO - CHECK FOR FREEMAINS

2458+* HAVE TP REQUEST -IF PUT REQUEST HANDLE IT BEFORE CHECKING TO SEE
 2459+* IF REQUESTS WAITING FOR FREEMAIN CAN BE SATISFIED NOW.

0097 C0 87 0BFD 2461+ B CMPRLS SEARCH PRLQ FOR PUT
 2462+* * XR1 - PL FOUND
 2463+* * XR2 - LEFT BYTE OF CHAIN
 2464+* * ADDR POINTING TO PL FOUND.

009B 78 02 03 2465+ TBN PLOPC(,PL),OPPUT DOES IT INVOLVE PUT
 009E F2 10 40 2466+ JT CMRDEQ YES - JUMP TO HANDLE NOW

2468+*****
 2469+* CHECK FOR REQUEST WAITING GETMAIN THAT CAN BE RETRIED. *
 2470+*****

00A1 38 80 15B5 00A1 2472+CMFRPS EQU * * LOCAL
 00A5 F2 90 2E 2473+ TBN CMSWIT,CMFMPS HAS FREEMAIN BEEN POSTED
 2474+ JF CMREQ IF NOT, JUMP TO HANDLE TP REQST

2476+* HAVE HAD FREEMAIN - FIND REQUEST AWAITING TPBUF SPACE.

00A8 F4 10 00 2478+ SVC 0 ***** TRANSIENT CALL *****
 00AB 01 00AB 2479+ DC AL1(CCPRIB) CCP RIB
 00AC 2D 00AC 2480+ DC AL1(CC4GR) GETMAIN RECOVERY TRANSIENT

00AD F2 87 22 2482+* ---> RETURN HERE IF NO REQUEST NEEDING GETMAIN WAS FOUND
 2483+ J CMFMGG

2485+* ---> RETURN HERE IF REQUEST NEEDS TO BE RETRIED (XR1 POINTS TO IT)
 2486+* XR1-PL ADDRESS, XR2-DTF TO BE RESCHEDULED.

00B0 34 02 15CD 2487+ ST CMSDTF,DTF SAVE THIS DTF @
 00B4 34 01 15CB 2488+ ST CMSPL,PL SAVE THIS PL @
 00B8 78 40 0C 2489+ TBN PL\$OPM(,PL),OPGETQ DOES REQ NEED GM AT QUEUE TIME
 00BB 7B C0 0C 2490+ SBF PL\$OPM(,PL),OPGETM+OPGETQ RESET GETMAIN NEEDED BITS
 00BE C0 90 06FC 2491+ BF CMBTBY NO- NEED BUF AT SCHED TIME. B

00C2 34 01 15D3 2493+* GETMAIN NEEDED AT REQUEST QUEUE TIME
 00C6 C0 87 1170 2494+ ST CMNWPL,PL SAVE ORIG PL @ FOR NO WAIT POST
 00CA 3A 20 15B5 2495+ B CMDEQ DEQUEUE PL IN TCB
 00CE C0 87 06E7 2496+ SBN CMSWIT,CMTPRQ NEW REQUEST
 2497+ B CMBSOX BSCA NEW REQUEST ONLY B

00D2 3B 80 15B5 00D2 2499+CMFMGG EQU * * LOCAL
 2500+ SBF CMSWIT,CMFMPS TURN OFF FREEMAIN POSTED FLAG

2502+*****
 2503+* CHECK FOR NEW READ REQUEST ON @PRLQ. *
 2504+*****

SCC4#2 \$E070/CMFRMN/ CONTROL LOGIC - GETMAIN FAIL RECOVERY

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00D6 3D 00 4644      00D6 2506+CMREQ EQU *          HANDLE TP REQUESTS
00DA F2 81 51        2507+      CLI  @PRLQ-1,NOBIT        ANY NEW TP REQUESTS TO HANDLE ?
                                2508+      JE   CMNWRK              NO - CHECK FOR TERMINAL IN
                                2509+*          ERROR RECOVERY

                                2511+* CM HAS BEEN POSTED WITH A TP REQUEST, FIND THE NEW REQ AND HANDLE IT.

00DD C0 87 0BFD      2513+      B    CMPRLS              SEARCH PRLQ FOR PUT
                                2514+*          *   XR1 - PL FOUND
                                2515+*          *   XR2 - LEFT BYTE OF CHAIN
                                2516+*          *   ADDR POINTING TO PL FOUND.
                                00E1 2517+CMRDEQ EQU *          *   LOCAL
00E1 34 01 15CB      2518+      ST   CMSPL,PL           SAVE THE PARM LIST ADDRESS
00E5 34 01 15D3      2519+      ST   CMNWPL,PL         SAVE PL TO POST FOR NO WAIT OP
00E9 9C 01 01 01     2520+      MVC  1(2,XR2),PLCHN(,PL) DEQUEUE PL OFF PRLQ
00ED 5F 01 01 01     2521+      SLC  PLCHN(2,PL),PLCHN(,PL) ZERO CHAIN FIELD
00F1 75 02 0B        2522+      L    PLTUBA(,PL),XR2    POINT XR2 AT THE TUB
00F4 78 01 03        2523+      TBN  PLOPC(,PL),OPGET   INVITE/GET OP ?                B
                                2524+*          -START-----@14
00F7 79 04 02        2525+      TBF  PLOPM(,PL),OPSTOP  AND NOT STOP?                  B
                                2526+*          --END-----@14
00FA F2 90 03        2527+      JF   CMRSCL             NO - CONTINUE                    B

                                2529+* SET OFF THE CLEAR INDICATOR IN THE TUB FOR ANY GET TYPE OP      B
                                2530+* THAT IS NOT A STOP INVITE.

00FD BB 80 09        2532+      SBF  TUBSCS(,XR2),TUBCLR SET OFF CLEAR INDICATOR        B
                                0100 2533+CMRSCL EQU *          *                                B
0100 B9 80 0B        2534+      TBF  TUBAT1(,XR2),TUBKNM THIS A CONSOLE TUB OR
0103 B9 80 0E        2535+      TBF  TUBAT4(,XR2),TUBCHN * A DUMMY TASKCHAIN TUB ?
0106 B5 02 16        2536+      L    TUBDTF(,XR2),DTF   SAVE DTF ADDRESS
0109 34 02 15CD      2537+      ST   CMSDTF,DTF        * FOR THIS REQUEST.
010D F2 90 05        2538+      JF   CMRNDQ            YES-DON'T DECREMENT REQ COUNT

0110 8F 00 7C 4633  2540+      SLC  LCBNW#(,DTF),X$0001 DECREMENT NEW REQ COUNT FOR LINE

                                2542+*-----*
                                2543+* SET INTERNAL OP CODE AND ROUTE NEW REQUEST. *
                                2544+*-----*

                                0115 2546+CMRNDQ EQU *          * LOCAL
0115 7B FF 0C        2547+      SBF  PL$OPM(,PL),ALLBIT SET ALL OP MOD BITS OFF
0118 58 03 0C 03     2548+      MNN  PL$OPM(,PL),PLOPC(,PL) MOVE LAST 4 BITS OF OP CODE

011C 7D 04 03        2550+      CLI  PLOPC(,PL),OPACI   IS OP IS ACCEPT INPUT ?
011F 79 40 02        2551+      TBF  PLOPM(,PL),OPOLT   AND NOT OLT ?
0122 C0 16 0B38      2552+      BC   CMACI,TRUEAQ       YES - GO HANDLE.

0126 3A 20 15B5      2554+      SBN  CMSWIT,CMTPRQ      SET SWITCH TO INDICATE TP
                                2555+*          REQUEST IS NOW BEING HANDLED
012A C0 87 05FF      2556+      B    CMBREQ             PROCESS THE BSCA REQUEST. ONLY B

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2558+*****
 2559+* RESCHEDULE DTF THAT WAS IN ERP. *
 2560+*****

012E 3D 00 4727	012E	2562+	CMNWRK EQU *	* LOCAL	
		2563+	CLI #CMERP-1,NOBIT	IS THERE A DTF THAT WAS IN ERP	
		2564+*		* TO RESCHEDULE ?	
0132 F2 81 10		2565+	JE CMWTST	NO- CHECK FOR TIMER RESCHED.	
0135 35 02 4728		2566+	L #CMERP,DTF	XR2--> ERP DTF ADDRESS	
0139 3C 00 4727		2567+	MVI #CMERP-1,NOBIT	CLEAR ERP DTF ADDRESS	
013D 34 02 15CD		2568+	ST CMSDTF,DTF	SAVE DTF ADDRESS	
0141 C0 87 06FC		2569+	B CMBTBY	GO TEST LINE FOR BUSY	B

2571+*****
 2572+* NO WORK *
 2573+*****

	0145	2575+	CMWTST EQU *	* LOCAL	
		2577+*	RESTART POLLING IF NECESSARY		NB
0145 35 02 464D		2579+	L @LCB#1,DTF	XR2-->FIRST LCB	NB
	0149	2580+	CMWTS1 EQU *		NB
0149 B8 01 70		2581+	TBN LCBATR(,DTF),LCBTIM	RESCHEDULE NEEDED?	
014C B9 20 56		2582+	TBF LCBAT2(,DTF),LCBACT	LINE ACTIVE ?	
014F F2 10 03		2583+	JT CMTMRS	YES-GO RESCHEDULE THIS LINE	
	0152	2584+	CMWOTR EQU *		

0152 F2 87 19		2586+	J CMWAIT	GO WAIT	NB
	0155	2588+	CMTMRS EQU *		NB
0155 34 02 15CD		2589+	ST CMSDTF,XR2	SAVE DTF ADDRESS FOR CM	
0159 3A 02 15F8		2590+	SBN TIMOPE,POL1MN	INDICATE POLL 1 MINUTE	NB
015D 3A 20 4630		2591+	SBN \$FLGC,#NTRAC	INDICATE NO TRACE	NB
		2592+*	PUT TWO SECONDS IN TIMER IOB BEFORE RESCHEDULE(RESCHEDULE WILL		NB
		2593+*	ACTUALLY START THE TIMER RUNNIG)		NB

0161 C2 02 15F9		2595+	LA TIMIOB,XR2	XR2-->TIMER IOB	NB
0165 8C 03 06 479E		2596+	MVC TITIME(4,XR2),PLTIME	SET TIME INTERVAL AS SPEC'ED	NB
016A C0 87 07BA		2597+	B CMBSCH	GO RESCHEDULE BSCA LINE	2/B
	016E	2598+	CMWAIT EQU *		
016E 3C 00 1600		2599+	MVI TIMIOB+7,NOBIT	SET TO WAIT ON TIMER ALSO	NB
0172 C0 87 0005		2600+	B \$CC4CM		
		2601 *	\$E072		
		2602+*	R-05,C-00 CHANGE LEVEL		

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2604+*****
2605+*
2606+* NAME--CMBOPE
2607+*
2608+* TITLE--BSCA OP END ANALYSIS
2609+*
2610+* FUNCTION--ANALYSE EACH OP END FOR A TP LINE AND DETERMINE WHAT
2611+* IF ANYTHING MUST BE DONE TO COMPLETE THE CURRENT TP
2612+* OPERATION. ROUTE COMPLETED OPERATION BACK TO THE USER.
2613+* RESCHEDULE WORK ON THE LINE IF NO MORE OP ENDS TO BE
2614+* HANDLED.
2615+*
2616+* OPERATION--
2617+*
2618+* . IF ABORT OPERATION, HANDLE THE ABORT UNTIL IT IS
2619+* COMPLETE. THEN RESCHEDULE THE LINE.
2620+*
2621+* . IF STOP INVITE REQUEST CALL $CC4BQ
2622+*
2623+* . FIND THE OP ENDED PARAMETER LIST AND SET ON THE POLL
2624+* SKIP BIT.
2625+*
2626+* . TRACE THE OP END AFTER CALLING CHECK
2627+*
2628+* . IF AN ERROR OCCURRED CALL $CC4BE. ON RETURN
2629+* EITHER POST THE RESULTS TO THE USER, RESCHEDULE THE
2630+* LINE, OR HANDLE THE DATA IN THE LINE BUFFER.
2631+*
2632+* . IF WRITE OP END, THEN
2633+* - IF BSCA RECORD WAS SHORTED THEN DEFINED AT
2634+* ASSIGNMENT TIME, CALL TRANSIENT TO FILL OUT THE
2635+* RECORD TO CORRECT LENGTH.
2636+*
2637+* - SET UP THE RETURN CODE FOR THE RESULTS OF THE
2638+* OPERATION.
2639+*
2640+* - IF BSCA IS NOT COMPLETE, CALL RESCHEDULE FUNCTION
2641+* TO COMPLETE THE OPERATION.
2642+* - EOT MUST BE SENT.
2643+* - OPERATION NOT COMPLETE BECAUSE CLEAR KEY IS
2644+* BEING HANDLED.
2645+*
2646+* - IF BSCA OPERATION IS COMPLETE, THEN
2647+* - FREE THE DFF HOLD BUFFER IF DFF PUT.
2648+*
2649+* - IF PUT-THEN-GET, THEN SET UP THE GET OPERATION IN
2650+* THE INTERNAL OP CODE, THEN RESCHEDULE THE LINE.
2651+*
2652+* - IF OPERATION IS COMPLETED SET UP TO POST THE
2653+* REQUESTOR OF THE RESULTS.
2654+*
2655+* . IF READ OP END, THEN
2656+* - IF BSCA RECEIVE INITIAL WAS LAST OP, CHECK FOR ANY
2657+* CONFLICTING OPERATION IN THE LINE QUEUE, AND REJECT
2658+* THEM IF ANY FOUND.
2659+*

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2660+*          - IF BSCA MESSAGE MODE INPUT, SET UP TO CONSOLIDATE *
2661+*          ALL BLOCKS INTO ONE MESSAGE.  SET UP TO RESCHEDULE *
2662+*          LINE AND GET TO EOT BEFORE RETURNING TO THE USER. *
2663+*          *
2664+*          - IF DATA MODE ESCAPE RECOGNIZED IN THE INPUT DATA *
2665+*          STREAM THEN SET UP POST OF THE COMMAND PROCESSOR. *
2666+*          *
2667+*          - IF VALID INPUT DATA, MOVE, TRANSLATE, TRUNCATE THE *
2668+*          DATA AS REQUIRED. *
2669+*          *
2670+*          - IF 3270 BSCA INPUT CHECK FOR CLEAR KEY HIT AND *
2671+*          HANDLE IT. *
2672+*          *
2673+*          . IF COMPLETED DATA OPERATION, THEN *
2674+*          - REMOVE THE TP REQUEST FROM THE LINE QUEUE. *
2675+*          - FREE UP PUT-NO-WAIT HOLD BUFFERS. *
2676+*          - POST THE REQUESTOR OF THE TP OPERATION THAT IT IS *
2677+*          COMPLETE. *
2678+*          - QUEUE INVITE INPUT PARAMETER LIST ONTO THE TCB. *
2679+*          - CHECK FOR MORE OP ENDS AND HANDLE IF THERE ARE *
2680+*          SOME, OTHERWISE GO AND RESCHEDULE LINE. *
2681+*          *
2682+*          ENTRY POINT-- *
2683+*          CMBOPE *
2684+*          *
2685+*          INPUT-- *
2686+*          OUTPUT-- *
2687+*          #OPEND - ADJUSTED FOR OP ENDS HANDLED. *
2688+*          CMSLCB - ADDRESS OF DTF HANDLED FOR LAST OP END. *
2689+*          CMSPL - ADDRESS TO TP PARAMETER LIST FOR LAST OP END. *
2690+*          TCBIHQ - QUEUE OF INVITES THAT HAVE COMPLETED. *
2691+*          *
2692+*          EXTERNAL REFERENCES-- *
2693+*          $CC4BQ - BSCA STOP II QUEUE ANALYSIS TRANSIENT. *
2694+*          $CC4TT - CCP TRACE ROUTINE. *
2695+*          $CC4BE - BSCA ERP TRANSIENT. *
2696+*          $CC4BR - BSCA REJECT TRANSIENT. *
2697+*          $CC4B5 - 3735 SENSE/STATUS TRANSIENT. *
2698+*          $CC4BA - 3270 SENSE/STATUS TRANSIENT. *
2699+*          $CC4JE - TRANSLATE ASCII TO EBCDIC *
2700+*          $CC4B0 - 3270 INPUT FORMAT TRANSIENT. *
2701+*          $CC4BB - BSCA RECORD BLANK TRANSIENT. *
2702+*          CMBSKP - BSCA SKIP BIT ON/OFF ROUTINE. *
2703+*          CMGINL - INPUT RECORD LENGTH ROUTINE. *
2704+*          CMFMRT - FREEMAIN ROUTINE. *
2705+*          CMGMRT - GETMAIN ROUTINE. *
2706+*          CMPSRQ - POST TP SCHEDULED ROUTINE. *
2707+*          CMPOST - POST OP END FOR READ OR PUT NO WAIT *
2708+*          CMPWGY - OP END FOR PUT PART OF PUT THEN GET. *
2709+*          *
2710+*          EXIT, NORMAL-- *
2711+*          TO CMBSCH TO RESCHEDULE THE LINE *
2712+*          *
2713+*          *****

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		0176	2715+	CMBOPE EQU	*	*			B
0176	38 20 4630		2716+	TBN	\$FLGC,#NTRAC	NO TRACE AND -			
017A	BD 44 0E		2717+	CLI	\$BDCMP(,DTF),\$BCNEG	* 44 COMP CODE ?			
017D	F2 16 04		2718+	JC	CMTRAC,TRUAEQ	YES- CONTINUE			
0180	3B 20 4630		2719+	SBF	\$FLGC,#NTRAC	NO-SET OFF NO TRACE IND			
		0184	2720+	CMTRAC EQU	*	*			
			2722+*		TRACE THE OP END COMPLETION CODE.				B
0184	C0 87 1042		2724+	B	CMTRCE	CALL TRACE.			B
0188	01	0188	2725+	DC	AL1(CCPRIB)	CCP RIB			B
0189	09	0189	2726+	DC	AL1(TRRIB)	TRACE SUBRIB			B
018A	EA	018A	2727+	DC	AL1(TTMOPN)	TRACE OP END STATUS.			B
			2729+*			-----START-----@16			
018B	B5 01 52		2730+	L	LCBPL@(,DTF),PL	XR1--> PARM LIST			B
018E	34 01 15CB		2731+	ST	CMSPL,PL	SAVE THE PARM LIST REG.			@20
0192	75 01 0B		2732+	L	PLTUBA(,PL),XR1	XR1 -> TUB.			B
0195	B8 04 6F		2733+	TBN	LCBAT3(,DTF),LCBSTS	STATUS POLL CURRENT OP -			B
0198	7D 06 23		2734+	CLI	TUBPHY(,XR1),TUB5M2	* AND 3270 TYPE TERMINAL ?			B
019B	F2 94 0F		2735+	JC	CMRSEN,FLSOHI	NO - PROCESS THE OP END.			B
019E	B5 01 0D		2736+	L	\$BDWKB(,DTF),XR1	XR1 -> RECORD AREA.			B
01A1	4D 01 01 15F3		2737+	CLC	SNSTAS(2,XR1),CMSTUS	STATUS MESSAGE RECEIVED ?			B
		01A6	2738+	CMYSAS EQU	*	@20			
01A6	B5 01 52		2739+	L	LCBPL@(,DTF),PL	XR1--> PARAMETER LIST			@20
01A9	C0 01 02A4		2740+	BNE	CMBYNS	NO - GO CALL \$CC4BE			@20
			2741+*			-----END-----@16			
		01AD	2742+	CMRSEN EQU	*				
01AD	BB 04 6F		2743+	SBF	LCBAT3(,DTF),LCBSTS	SET OFF STATUS POLL OP.			@20
01B0	BD 59 0E		2744+	CLI	\$BDCMP(,DTF),CPURGE	IS PURGE OPERATION COMPLETE			
01B3	F2 01 06		2745+	JNE	CMRSEP	NO, CHECK OP END			
01B6	B5 01 30		2746+	L	\$BDWKA(,DTF),WKA	POINT TO BSCA WORK AREA			
01B9	7B 04 24		2747+	SBF	ACKSD(,WKA),AKERR	SET OFF MLMP ERROR INDICATOR			
		01BC	2748+	CMRSEP EQU	*	LOCAL			
01BC	B5 01 52		2749+	L	LCBPL@(,DTF),PL	XR1--> PARM LIST			
			2750+*			-----START-----@06-@02			
01BF	78 02 0C		2751+	TBN	PL\$OPM(,PL),OPPUT	PUT IN PROCESS ?			B
01C2	F2 10 03		2752+	JT	CMCABT	YES - LEAVE ON RVI MASK.			B
01C5	BB 20 7D		2753+	SBF	LCBOPC(,DTF),LCBRVI	SET OFF SEND RVI INDICATOR.			B
		01C8	2754+	CMCABT EQU	*	* LOCAL			B
			2755+*			-----END-----@06-@02			
01C8	B8 08 56		2756+	TBN	LCBAT2(,DTF),LCBAPT	LINE ABORT IN PROCESS ?			B
01CB	F2 90 24		2757+	JF	CMSTPX	NO-GO CHECK FOR STOP RECEIVE .			B
			2759+*****						B
			2760+*		ABORT IN PROCESS	*			B
			2761+*****						B
01CE	B8 02 7D		2763+	TBN	LCBOPC(,DTF),OPPUT	ABORT OF A PUT OPERATION ?			B
01D1	F2 90 09		2764+	JF	CMRABT	NO - MUST BE READ ABORT			B
			2766+*		ABORT OF A PUT				B
01D4	B5 01 30		2768+	L	\$BDWKA(,DTF),WKA	POINT TO BSCA WORK AREA.			B
01D7	7B 04 24		2769+	SBF	ACKSD(,WKA),AKERR	SET OFF MLMP ERROR IND.			B
01DA	F2 87 0D		2770+	J	CMRNAR	GO RESCHEDULE THE LINE.			B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	65
			2772+*		ABORT OF A READ				B
		01DD	2774+	CMRABT EQU *	* LOCAL				B
01DD	BD 40 0E		2775+	CLI	\$BDCMP(,DTF), \$BCDNE	CCP PURGE COMPLETE ?			B
01E0	C0 81 031E		2776+	BE	CMPBMP	NO-GO BUMP TO NEXT BLOCK.			B
01E4	B5 01 30		2777+	L	\$BDWKA(,DTF), WKA	POINT TO BSCA WORK AREA.			B
01E7	7B 04 23		2778+	SBF	BSFLGD(,WKA), FWDABT	SET OFF FORWARD ABORT.			B
		01EA	2779+	CMRNAR EQU *	* LOCAL				B
01EA	AF 01 56 56		2780+	SLC	LCBAT2(2,DTF), LCBAT2(,DTF)	CLEAR LCBAT1 AND LCBAT2.			B
01EE	C0 87 07BA		2781+	B	CMBSCH	GO TO RESCHEDULE THE LINE.			B
		01F2	2783+	CMSTPX EQU *	* LOCAL				B
01F2	B8 80 55		2784+	TBN	LCBAT1(,DTF), LCBCRI	STOP INVITE REQUESTED ?			B
01F5	F2 90 17		2785+	JF	CMBCMP	NO-GO HANDLE THE OP END.			B
			2787+	*****					B
			2788+	*	STOP INVITE				B
			2789+	*****					B
		12C7	2791+		USING CMBSKP, XR1				B
01F8	C2 01 12C7		2792+	LA	CMBSKP, XR1	LOAD @ OF POLL SKIP BIT RTN.C/SB			B
01FC	7C 7A 2E		2793+	MVI	CMB#SB(,XR1), SBN1	SET OP: SET SKIP BIT ON. C/SB			B
01FF	F4 10 00		2794+	SVC	0	#### TRANSIENT CALL #####			B
0202	01	0202	2795+	DC	AL1(CCPRIB)	CCP SVC RIB			B
0203	3F	0203	2796+	DC	AL1(CC4BQ)	*			B
			2798+	*	\$CC4BQ RETURNS CONTROL TO:				B
			2799+		NSI, IF LINE IS STOPPED SUCCESSFULLY.				B
			2800+		NSI+4, IF STOP FAILED, BUT CONTINUE OP END HANDLING.				B
			2801+		NSI+7, IF STOP FAILED, AND ABORT IS REQUIRED.				B
0204	C0 87 07BA		2803+	B	CMBSCH	LINE STOPPED, RESCHEDULE WORK.			B
0208	F2 87 04		2804+	J	CMBCMP	NOT STOPPED, HANDLE THE OP END.			B
020B	C0 87 0625		2805+	B	CMBSTP	NOT STOPPED, ABORT THE LINE.			B
			2807+	*****					B
			2808+	*	COMPLETION CODE ANALYSIS FOR BSCA				B
			2809+	*****					B
		020F	2811+	CMBCMP EQU *	* LOCAL				B
020F	34 01 15CB		2812+	ST	CMSPL, PL	SAVE THE PARM LIST REG.			B
0213	BD 40 0E		2813+	CLI	\$BDCMP(,DTF), \$BCDNE	SUCCESSFUL DATA ?			B
0216	F2 81 98		2814+	JE	CMBSCS	YES-GO HANDLE IT.			B
0219	BD 42 0E		2815+	CLI	\$BDCMP(,DTF), \$BCEOT	EOT RECEIVED, AND			B
021C	B9 01 56		2816+	TBF	LCBAT2(,DTF), LCBCRI	* NOT RECEIVE INITIAL ?			B
021F	F2 16 8F		2817+	JC	CMBSCS, TRUAEQ	YES-GO HANDLE THE EOT.			B
0222	F2 01 06		2818+	JNE	CMBERR	NOT EOT-GO TO ERP TRANSIENT.			B
0225	B9 C0 55		2819+	TBF	LCBAT1(,DTF), LCBCRI+LCBPRI	EOT TO CANCEL REQUEST ?			B
0228	F2 90 86		2820+	JF	CMBSCS	YES-EOT IS OK THEN.			B
			2822+	*	EOT TO RECEIVE INITIAL IS INVALID.				B
		022B	2824+	CMBERR EQU *	* LOCAL				B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	66
			2826+*		INSTITUTE INTERVAL TIMER POLLING IF APPLICABLE				NB
022B	BD 44 0E		2828+	CLI	\$BDCMP(,DTF), \$BCNEG	44	COMPLETION CODE		NB
022E	B8 80 02		2829+	TBN	\$BDATT(,DTF), \$BCINP		AND POLLING ?		NB
0231	F2 96 68		2830+	JC	CMBSER,FLSNEQ		NO-CALL TRANSIENT		NB
0234	75 02 0B		2832+	L	PLTUBA(,PL),XR2		XR2--> TUB		NB
0237	BD 07 23		2833+	CLI	TUBPHY(,XR2),TUB375		3735'S ?		NB
023A	B5 02 16		2834+	L	TUBDTF(,DTF),XR2		XR2-->DTF		NB
023D	F2 81 5C		2835+	JE	CMBSER		YES-CALL TRANSIENT		NB
			2837+	*****					NB
			2838+*		NO RESPONSE TO POLL OF 3270S			*	NB
			2839+	*****					NB
			2841+*		CLEAN UP THE LCB AND TUB				NB
0240	AF 01 56 56		2843+	SLC	LCBAT2(2,DTF),LCBAT2(,DTF)		SET OFF LCB ATTRIBUTES		NB
0244	75 02 0B		2844+	L	PLTUBA(,PL),XR2		XR2-->TUB		NB
0247	BB 01 0C		2845+	SBF	TUBAT2(,XR2),TUBOWN		RESET TUB OWNERSHIP		NB
024A	3A 20 4630		2846+	SBN	\$FLGC,#NTRAC		IND NO TRACING TO BE DONE		NB
			2848+*		SET UP THE INTERVAL TIMER FOR A WAIT				NB
024E	C2 02 15F9		2850+	LA	TIMIOB,XR2		XR2-->TIMER IOB		NB
0252	BC FF 00		2851+	MVI	TIFLAG(,XR2),ALLBIT		SET TO CANCEL REMAINING TIME		NB
0255	F4 10 00		2852+	SVC	0		*		NB
0258	16	0258	2853+	DC	AL1(TMRIB)		RETURN TIME REMAINING		NB
0259	38 01 15F8		2855+	TBN	TIMOPE,VALOPE		OP END SINCE LAST HERE?		NB
025D	3B 01 15F8		2856+	SBF	TIMOPE,VALOPE		RESET IT		NB
0261	F2 10 2B		2857+	JT	ST1MIN		YES-GO PUT 1 MIN. IN THE IOB		NB
0264	38 02 15F8		2859+	TBN	TIMOPE,POL1MN		POLLING FROM A MINUTE AND-		NB
0268	8D 03 06 15F7		2860+	CLC	TITIME(4,XR2),ZROTIM		TIME ZERO ?		NB
026D	3B 02 15F8		2861+	SBF	TIMOPE,POL1MN		SET OFF INDICATER		NB
0271	F2 11 20		2862+	JC	SETIND,TRUNEQ		NO-GO SET 'POLL FOR A MIN.'		NB
0274	8C 02 06 47A1		2864+	MVC	TITIME(3,XR2),WATIME		MAKE IT TIME SPECIFIED		NB
		0279	2865+	USESETIM EQU	*		*		NB
0279	BC 02 00		2866+	MVI	TIFLAG(,XR2),X'02'		INTERRUPT WHEN TIME EXPIRED		NB
027C	3B FF 1600		2867+	SBF	TIMIOB+7,ALLBIT		SET TO POST ON TIMER OP END		NB
0280	F4 10 00		2868+	SVC	0		*		NB
0283	15	0283	2869+	DC	AL1(STMRIB)		START TIMER RUNNING		NB
			2871+*		INDICATE THAT A WAIT ON THE INTERVAL TIMER HAS STARTED SO				NB
			2872+*		THAT CM WILL RESCHEDULE THE LINE WHEN NEXT ENTERED				NB
0284	35 02 15CD		2874+	L	CMSDTF,XR2		XR2-->CURRENT DTF		NB
0288	BA 01 70		2875+	SBN	LCBATR(,DTF),LCBTIM		SET IND. IN LCB		NB
028B	C0 87 0005		2877+	B	\$CC4CM		GO ISSUE THE WAIT		NB
		028F	2879+	ST1MIN EQU	*		* LOCAL		NB
028F	8C 03 06 479E		2880+	MVC	TITIME(4,XR2),PLTIME		PUT POLL TIME IN TIME IOB		NB

\$CC4#2 \$E072/CMBOPE----BSCA OPERATION END HANDLING

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0294	3A 02 15F8	0294	2882+	SETIND EQU	*	* LOCAL			NB
			2883+	SBN	TIMOPE,POL1MN	SET IND.'POLL FOR A MINUTE'			NB
0298	C0 87 07BA		2885+	B	CMBSCH	GO RESCHEDULE THE LINE			NB
			2887+*		HAVE BSCA ERROR (DETECTED BY MLMP), CALL BSCA ERROR TRANSIENT				B
029C	3B 20 4630	029C	2889+	CMBSER EQU	*	*			B
			2890+	SBF	\$FLGC,#NTRAC	INDICATE TRACE TO RESUME			
02A0	3A 01 15F8		2891+	SBN	TIMOPE,VALOPE	IND. OP END TO TIMER CODE			NB
		02A4	2892+	CMBYNS EQU	*	* LOCAL			B
02A4	F4 10 00		2893+	SVC	0	#### TRANSIENT CALL #####			B
02A7	01	02A7	2894+	DC	AL1(CCPRIB)	CCP SVC RIB			B
02A8	39	02A8	2895+	DC	AL1(CC4BE)	ERROR DETERMINATION TRANSIENT.			B
			2897+*		\$CC4BE RETURNS CONTROL TO				B
			2898+*		NSI, POST COMPLETE AND RESCHEDULE LINE (HARD ERROR, NO DATA,				B
			2899+*		JUST LET USER KNOW AND FORGET IT). ALSO USED IF ERROR ON				B
			2900+*		SYSTEM READ AND NEED TO BYPASS NORMAL ERP.				B
			2901+*		NSI+4, TO ONLY RESCHEDULE THE LINE (TUB IN ERP, PL @ SAVED,				B
			2902+*		OPERATION MAY BE RETRIED SO DON'T FREE OR POST.)				B
			2903+*		NSI+8, TO ANALYZE OP END AS IF NO ERROR. ALSO FOR AUTOMATIC				B
			2904+*		BYPASS OF NORMAL ERP IF SYSTEM PUT THAT CANNOT BE PUT				B
			2905+*		INTO ERP OPERATOR WAIT.				B
02A9	C0 87 05A4		2907+	B	CMRETC	SET UP TO RETURN TO USER.			B
02AD	C0 87 07BA		2909+	B	CMBSCH	GO RESCHEDULE WORK ON THE LINE.			B

				2911+*****							B
				2912+*	OP COMPLETED SUCCESSFULLY					*	B
				2913+*	DETEMINE WHAT KIND OF OPERATION IT WAS AND HANDLE IT ACCORDINGLY*						B
				2914+*****							B
		02B1	2916+	CMBSCS EQU	*				* LOCAL *		B
02B1	3A	01	15F8	2917+	SBN	TIMOPE,VALOPE			IND. OP END TO TIMER CODE		
02B5	3B	20	4630	2918+	SBF	\$FLGC,#NTRAC			INDICATE TRACE TO RESUME	@28	
02B9	B9	40	7D	2919+	TBF	LCBOPC(,DTF),LCBERP			IF NOT WAITING FOR EOT TO		B
				2920+*					* STATUS MESSAGE.(IF ON PL\$OPM		B
				2921+*					* IS NOT ORIG OP,IT IS A INV.)		B
02BC	78	02	0C	2922+	TBN	PL\$OPM(,PL),OPPUT			WAS IT WRITE		B
02BF	C0	10	0517	2923+	BT	CMWEND			BRANCH IF WRITE		B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	69
			2925+		*****				B
			2926+	*	BSCA READ OP END HANDLER				* B
			2927+		*****				B
			2929+	*	CHECK FOR SEARCH EOT OPERATION. IF SEARCH FOR EOT, AND EOT IS NOT				B
			2930+	*	FOUND, CONTINUE SEARCH. IF EOT WAS FOUND, THEN DETERMINE				B
			2931+	*	IF PARM LIST MUST BE DEQ'D. IF EOT IS FOUND FOR GET-MSG,				B
			2932+	*	GO TO GET-MSG EOT PROCESSING LOGIC.				B
02C3	B8 02 55		2934+	TBN	LCBAT1(,DTF),LCBEOT	SEARCH FOR EOT ON LINE ?			B
02C6	F2 90 5D		2935+	JF	CMPSAV	NO-GO CHECK COMPLETION CODE.			B
02C9	BD 42 0E		2936+	CLI	\$BDCMP(,DTF),\$BCEOT	EOT FOUND ?			B
02CC	F2 01 4F		2937+	JNE	CMPBKL	NO-GO UPDATE BLK LEN TO NXT BLKB			B
02CF	78 04 02		2938+	TBN	PLOPM(,PL),OPSTOP	STOP INVITE AND			0/5/7B
02D2	78 40 0D		2939+	TBN	PL\$OPC(,PL),OPLSNS	* POLL FOR STATUS ?			0/5/7B
02D5	F2 90 0D		2940+	JF	CMCKDQ	NO - GO CHECK FOR DEQUEUE			0/5/7B
02D8	BA 04 55		2941+	SBN	LCBAT1(,DTF),LCBDEQ	SET TO DEQUEUE			0/5/7B
02DB	BA 40 7D		2942+	SBN	LCBOPC(,DTF),LCBERP	SET SEARCH FOR EOT TO			0/5/7B
			2943+	*		* TO INSURE DEQUEUE.			0/5/7B
02DE	3A 02 15B5		2944+	SBN	CMSWIT,CMSPSI	SET INTERNAL IND. ON			0/5/7B
02E2	7C 0A 0F		2945+	MVI	PL\$RTC(,PL),RCXSPI	MOVE IN STOPPED RTN CODE.			0/5/7B
		02E5	2946+	CMCKDQ EQU	*	* LOCAL			0/5/7B
			2948+	*	-----*				B
			2949+	*	EOT FOUND DURING SEARCH FOR EOT				* B
			2950+	*	-----*				B
02E5	B8 04 55		2952+	TBN	LCBAT1(,DTF),LCBDEQ	DEQUE WHEN EOT FOUND ?			B
02E8	AF 01 56 56		2953+	SLC	LCBAT2(2,DTF),LCBAT2(,DTF)	CLEAR LCBAT1 AND LCBAT2.			B
02EC	75 02 0B		2954+	L	PLTUBA(,PL),XR2	LOAD REG TO THE TUB.			B
02EF	BB 01 0C		2955+	SBF	TUBAT2(,XR2),TUBOWN	SET OFF TUB OWN INDICATOR.			B
02F2	C0 90 05E4		2956+	BF	CMREDO	DON'T DEQ-GO RESCHEDULE LINE.			B
02F6	78 01 0D		2957+	TBN	PL\$OPC(,PL),OPGET	GET OP BEING HANDLED ?			B
02F9	F2 90 12		2958+	JF	CMRERP	NO-GO CHECK FOR ERP.			B
02FC	BB 10 0C		2959+	SBF	TUBAT2(,XR2),TUBIIS	SET OFF INVITE SCHEDULED.			B
02FF	B8 C0 0C		2960+	TBN	TUBAT2(,XR2),TUBDTA+TUBCMD	DME ?			B
0302	F2 90 09		2961+	JF	CMRERP	IF NOT DME, CAN REUSE LINE BUF.			B
0305	B5 02 16		2962+	L	TUBDTF(,XR2),DTF	DTF ADDRESS			B
0308	BC 00 77		2963+	MVI	LCBIBA-1(,DTF),NOBIT	IF DME - ASSIGN BUFF TO PL			B
030B	75 02 0B		2964+	L	PLTUBA(,PL),XR2	TUB ADDRESS			B
		030E	2965+	CMRERP EQU	*	* LOCAL			B
030E	BD C0 0C		2966+	CLI	TUBAT2(,XR2),TUBDTA+TUBCMD	DATA MODE ESCAPE RECOGNIZED ?			B
0311	B5 02 16		2967+	L	TUBDTF(,XR2),DTF	POINT TO THE DTF.			B
0314	B9 40 7D		2968+	TBF	LCBOPC(,DTF),LCBERP	SEARCHING FOR EOT TO STATUS MSGB			B
0317	C0 95 05C3		2969+	BC	CMBDEQ,FLSNLO	ERP/DME-GO DEQ THE REQUEST.			B
031B	F2 87 3D		2970+	J	CMREXT	GO TO EXIT FROM READ OP END.			B
			2972+	*	-----*				B
			2973+	*	EOT NOT FOUND DURING SEARCH FOR EOT				* B
			2974+	*	-----*				B
		031E	2976+	CMPBKL EQU	*	* LOCAL			B
		031E	2977+	CMPBMP EQU	*	*			B
031E	AE 01 25 21		2978+	ALC	\$BDBKX(2,DTF),\$BDBKL(,DTF)	UPDATE BLK PTR TO GET NEXT BLKB			B
0322	C0 87 083B		2979+	B	CMFORB	GO FORM NEXT OP ON THE LINE.			B

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			2981+*	-----*				B
			2982+*	NOT SEARCH FOR EOT				* B
			2983+*	-----*				B
		0326	2985+	CMPSAV EQU * * LOCAL				B
0326	6C 00 0F 0E		2986+	MVC PL\$RTC(1,PL), \$BDCMP(,DTF)	SAVE THE COMPLETION CODE.			B
032A	7B 40 0F		2987+	SBF PL\$RTC(,PL),BIT1	SET OFF X'40' IN RETURN CODE.			B
			2989+*	HAVE A SUCCESSFUL READ OPERATION.				B
			2990+*	CHECK FOR RECEIVE INITIAL AND DATA RETURNED. IF YES, CHECK FOR				B
			2991+*	CONFLICTING REQUESTS IN THE BSCA LINE QUEUE.				B
			2992+*	IF NOT RECEIVE INITIAL AND DATA IS RETURNED, GO HANDLE THE DATA				B
			2993+*	ONLY SITUATION.				B
			2994+*	IF EOT WAS RECEIVED FOR CANCEL RECEIVE INITIAL OPERATION, THEN				B
			2995+*	CHECK WHETHER PRIORITY CANCEL OR STOP POLLING REQUEST.				B
			2996+*	OTHERWISE EOT WAS RECEIVED FOR DATA. CHECK FOR MESSAGE MODE				B
			2997+*	PROCESSING. IF GET-MSG, CLEAN UP THE OPERATION.				B
032D	79 02 0F		2999+	TBF PL\$RTC(,PL), \$BCEOT-BIT1	DATA RECEIVED FOR A			B
0330	B8 01 56		3000+	TBN LCBAT2(,DTF),LCBRCI	RECEIVE INITIAL ON THE LINE ?			B
0333	BB 03 56		3001+	SBF LCBAT2(,DTF),LCBRCI+LCBPUT	SET OFF RCVI AND PUT IND'S.			B
0336	F2 10 3D		3002+	JT CMREJC	YES-DATA HIT, CHECK CONFLICTS.			B
0339	75 01 0B		3003+	L PLTUBA(,PL),TUB	LOAD TUB REG.			B
033C	BD 42 0E		3004+	CLI \$BDCMP(,DTF), \$BCEOT	EOT RECEIVED ?			B
033F	C0 01 03D5		3005+	BNE CMB327	NOT EOT, DATA FOR NON-RCVI.			B
			3007+*	-----*				B
			3008+*	EOT RECEIVED - NO DATA				* B
			3009+*	-----*				B
0343	B8 40 55		3011+	TBN LCBAT1(,DTF),LCBPRI	PRIORITY CANCEL REQUESTED ?			B
0346	AF 01 56 56		3012+	SLC LCBAT2(2,DTF),LCBAT2(,DTF)	CLEAR LCBAT1 AND LCBAT2.			B
034A	7B 01 0C		3013+	SBF TUBAT2(,TUB),TUBOWN	SET OFF TUB OWN INDICATOR.			B
034D	F2 90 08		3014+	JF CMNRX1	NOT PROIRITY CANCEL JUMP			B
0350	AC 00 6D 15		3015+	MVC LCBLID(1,DTF), \$BDIND(,DTF)	SAVE LAST POLLED TERM ID			B
0354	C0 87 07BA		3016+	B CMBSCH	RESCHEDULE IF EOT TO PRI.			B
		0358	3017+	CMNRX1 EQU * * LOCAL				B
0358	7B 10 0C		3018+	SBF TUBAT2(,TUB),TUBIIS	SET OFF INPUT SCHEDULED.			B
			3020+	*****				B
			3021+*	COMMON EOT HANDLING CODE				* B
			3022+	*****				B
		035B	3024+	CMREXT EQU * * LOCAL				B
035B	B5 01 52		3025+	L LCBPL@(,DTF),PL	POINT TO THE PARM LIST			B
035E	7D 80 02		3026+	CLI PLOPM(,PL),OP\$SYS	USER REQUEST, AND			B
0361	C0 02 05C3		3027+	BNL CMBDEQ	IF SYSTEM INVITE, PASS RECA			B
			3028+*		* TO \$CC4CP ALWAYS.			B
			3030+*	USER INPUT OP -- EOT AND NOT MESSAGE MODE - NO HOLD BUFFER				B
0365	5F 01 05 05		3032+	SLC PLEFFL(2,PL),PLEFFL(,PL)	ZERO EFFL. SO II WON'T FREE			B
0369	75 02 0B		3033+	L PLTUBA(,PL),XR2	POINT TO THE TUB.			B
036C	7C 00 08		3034+	MVI PLRECA-1(,PL),NOBIT	MAKE SURE PLRECA 0,NO BUFFER			B
036F	B5 02 16		3035+	L TUBDTF(,XR2),DTF	POINT TO THE DTF.			B
0372	C0 87 05C3		3036+	B CMBDEQ	GO DEQUE THIS REQUEST.			B

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			3038+	*****			B
			3039+*	DATA RECEIVED FOR RECEIVE INITIAL			* B
			3040+	*****			B
			3042+*	IF THE TASK THAT THIS REQUEST IS FOR HAS A WAIT TYPE OP OR A			B
			3043+*	PUT NO WAIT BLOCK OR RECORD ON THE LINE QUEUE, THEN HE ISNT			B
			3044+*	WAITING FOR THIS OP END. REJECT THAT OP ON THE LINE QUEUE SO			B
			3045+*	HE CAN RECEIVE THIS DATA AND WE CAN FREE THE HOLD BUFFER.			B
			3047+*	REMOVE CONFLICTING ACCEPTED REQUESTS. ONLY INVITES AND/OR			B
			3048+*	PUT-NO-WAITS-MESSAGE REQUESTS MAY STAY IN THE QUEUE. BECAUSE OF			B
			3049+*	BSCA LINE HANDLING, AT OP END TIME NO MORE THAN ONE GET OR PUT			B
			3050+*	FOR RECORD, BLOCK, MESSAGE, OR PUT-NO-WAIT FOR RECORD OR BLOCK			B
			3051+*	COULD BE IN THE LINE QUEUE AND THEREFORE HAVE TO BE REMOVED.			B
0376 B5 01 52		0376	3053+CMREJC EQU *	* LOCAL			B
			3054+ L LCBPL@(,DTF) ,PL	RELOAD THE PL REG.			RB
			3056+*	SAVE PARM LIST AND DTF DATA ADDR'S AND LENGTHS. THEY WILL BE			RB
			3057+*	USED ONLY BY GET-MESSAGE PROCESSING.			RB
0379 BB 40 55			3059+ SBF LCBAT1(,DTF) ,LCBPRI	SET OFF PRIORITY CANCEL IND.			RB
037C 2C 01 15DF 5C			3060+ MVC CMIIND,LCBOWN(2 ,DTF)	SAVE TCB @ OF OWNER.			RB
0381 79 C0 0D			3061+ TBF PL\$OPC(,PL) ,OPLSNS+OPRFSH	POLL FOR STATUS,OR REFRESH OR			RB
0384 39 20 15D8			3062+ TBF SAVTA2 ,TASMSG	* GET-MESSAGE MODE			RB
0388 F2 90 47			3063+ JF CMRECX	YES-GO READY FOR RECORD CHECK.			RB
038B E2 01 65			3064+ LA LCBPLQ-1(,DTF) ,PL	LOAD REG. TO DTF PL QUEUE.			RB
		038E	3065+CMREQR EQU *	* LOCAL			RB
038E 4D 01 01 15CB			3066+ CLC PLCHN(2 ,PL) ,CMSPL	NEXT PL SAME AS OP ENDED ?			RB
0393 75 01 01			3067+ L PLCHN(,PL) ,PL	LOAD REG TO NEXT PARM LIST.			RB
0396 F2 81 2B			3068+ JE CMRZRO	YES-SKIP IT, CHECK FOR ANOTHER			RB
0399 75 02 0B			3069+ L PLTUBA(,PL) ,XR2	LOAD WORK REG WITH TUB @.			RB
039C 2D 01 15DF 12			3070+ CLC CMIIND,TUBTCB(2 ,XR2)	THIS TUB FOR SAME OWNER ?			RB
03A1 F2 01 20			3071+ JNE CMRZRO	NO-GO CHECK FOR ANOTHER.			RB
03A4 78 04 03			3072+ TBN PLOPC(,PL) ,OPNOW	NO WAIT OPERATION ?			RB
03A7 F2 90 12			3073+ JF CMRCAN	NO-GO CANCEL ANY WAIT OP'S.			RB
03AA 78 05 03			3074+ TBN PLOPC(,PL) ,OPINV	THIS AN INVITE INPUT ?			RB
03AD F2 10 14			3075+ JT CMRZRO	YES-GO CHECK FOR ANOTHER.			RB
03B0 78 80 02			3076+ TBN PLOPM(,PL) ,OP\$SYS	SYSTEM REQUEST ?			RB
03B3 F2 10 0E			3077+ JT CMRZRO	YES-TREAT AS PUT-MSG/NOWAIT.			RB
03B6 78 30 03			3078+ TBN PLOPC(,PL) ,OPMSG	PUT/MSG REQUEST ?			RB
03B9 F2 10 08			3079+ JT CMRZRO	YES - OK TO KEEP			RB
			3081+*	REJECT THIS OP SO TASK CAN ACCEPT THE DATA RECEIVED FOR HIM			RB
		03BC	3083+CMRCAN EQU *	* LOCAL			RB
03BC F4 10 00			3084+ SVC 0	#### TRANSIENT CALL ####			RB
03BF 01		03BF	3085+ DC AL1(CCPRIB)	CCP SVC RIB			RB
03C0 42		03C0	3086+ DC AL1(CC4BR)	* BSCA OP REJECT TRANSIENT			RB
03C1 F2 87 0E			3087+ J CMRECX	GO CHECK THE RECORD AREA.			RB
		03C4	3089+CMRZRO EQU *	* LOCAL			RB
03C4 7D 00 00			3090+ CLI PLCHN-1(,PL) ,NOBIT	ANOTHER PARM LIST IN CHAIN ?			RB
03C7 C0 01 038E			3091+ BNE CMREQR	YES-GO CHECK FOR REQUEST REJ			RB
03CB 35 02 15CD			3092+ L CMSDTF ,DTF	RELOAD THE DTF REG.			RB
03CF B5 01 52			3093+ L LCBPL@(,DTF) ,PL	RELOAD THE PL REG.			RB

\$CC4#2 \$E072/CMREND---READ-OP-END-HANDLER

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03D2 75 01 0B	03D2 3094+CMRECX EQU *	* LOCAL RB
	3095+ L PLTUBA(,PL),TUB	POINT TO THE TUB. B

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			3097+	*****				B
			3098+	* DATA RECEIVED FOR NON-RECEIVE INITIAL (ALSO EXECUTED FOR RECV INT*				B
			3099+	*****				B
		03D5	3101+	CMB327 EQU *		* LOCAL		0B
03D5	78 80 09		3102+	TBN TUBSCS(,TUB),TUBCLR		CLEAR KEY HIT ?		0B
03D8	7B 80 09		3103+	SBF TUBSCS(,TUB),TUBCLR		SET OFF CLEAR KEY HIT.		0B
03DB	F2 90 0D		3104+	JF CMR327		NO-GO CHECK TERMINAL TYPE.		0B
			3105+	* CLEAR KEY.				
		03DE	3106+	CMRCRC EQU *		* LOCAL		0B
03DE	B5 01 52		3107+	L LCBPL@(,DTF),PL		POINT TO THE PARM LIST.		0B
03E1	7C 07 0F		3108+	MVI PL\$RTC(,PL),RCXCLR		SET CLEAR RETURN CODE.		0B
		03E4	3109+	CMREOT EQU *		* LOCAL		0/DB
03E4	BA 06 55		3110+	SBN LCBAT1(,DTF),LCBEOT+LCBDEQ		SET SEARCH EOT AND THEN DEQ0/DB		0/DB
03E7	C0 87 083B		3111+	B CMFORB		GO FORM THE OPERATION.		0/DB
		03EB	3113+	CMR327 EQU *		* LOCAL		0/DB
03EB	7D 07 23		3114+	CLI TUBPHY(,TUB),TUB375		THIS A 3270 OR 3735 ?		0/5B
03EE	B5 01 0D		3115+	L \$BDWKB(,DTF),XR1		POINT TO LOGICAL DATA AREA		0/57B
03F1	F2 02 5B		3116+	JNL CMRCMD		NOT 3270, GO CHECK COMMAND MOD0B		
			3118+	*****				0B
			3119+	* 3270 - NOT CLEAR KEY				* 0B
			3120+	*****				0B
			3122+	* IGNORE CHECKING FOR CLEAR KEY IF NOT THE FIRST TEXT BLOCK.				0B
			3123+	* ALL NON-FIRST TEXT BLOCKS BEGIN WITH A 'SBA' = X'11'.				0B
03F4	B8 04 56		3125+	TBN LCBAT2(,DTF),LCBSEC		SECOND BLOCK OF DATA ?		0B
03F7	F2 10 55		3126+	JT CMRCMD		YES-DON'T CHECK FOR CLEAR KEY		0B
		03FA	3127+	CMRSTS EQU *		* LOCAL		0B
03FA	4D 01 01 15F3		3128+	CLC SNSTAS(2,XR1),CMSTUS		THIS A STATUS MESSAGE ?		0B
		03FF	3129+	CMRNEB EQU *		* LOCAL		0B
03FF	F2 01 09		3130+	JNE CMRAID		NO-GO CHECK AID.		0B
0402	F4 10 00		3131+	SVC 0		#### TRANSIENT CALL ####		0B
0405	01	0405	3132+	DC AL1(CCPRIB)		CCP SVC RIB		0B
0406	30	0406	3133+	DC AL1(CC4BA)		THE 3270 SENSE STATUS XIENT.		0B
0407	C0 87 083B		3135+	B CMFORB		GO FORM NEXT OP ON THE LINE.		0B
		040B	3137+	CMRAID EQU *		* LOCAL		0B
040B	D2 01 02		3138+	LA 2(,XR1),XR1		BUMP POINTER FOR CONTROL STA.		0B
		040E	3139+	CMSAID EQU *		* LOCAL		
040E	7D 6D 00		3140+	CLI AID(,XR1),AIDCLR		CLEAR KEY HIT ?		0B
			3142+	*****				
			3143+	* WHEN ENTERING AT THIS LABEL EQUAL CONDITION MUST BE OFF				
			3144+	* UNLESS THE 3270 CLEAR KEY HAS BEEN DEPRESSED				
			3145+	*****				
		0411	3147+	CMRPLS EQU *		* LOCAL		0B
0411	35 01 15CB		3148+	L CMSPL,PL		GET PARM LIST @ TO.		0/7B
0415	78 40 0D		3149+	TBN PL\$OPC(,PL),OPLSNS		POLLING FOR STATUS ?		0/7B
0418	7B 40 0D		3150+	SBF PL\$OPC(,PL),OPLSNS		SET OFF POLL FOR STATUS IND.		0/7B
041B	F2 90 0D		3151+	JF CMRCLR		NO-GO SET CLEAR INDICATOR.		0/7B
041E	75 02 0B		3152+	L PLTUBA(,PL),XR2		POINT TO THE TUB.		0/7B

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0421	BB 08 09		3153+	SBF	TUBSCS(,XR2),TUBSSP	SET OFF STATUS POLL IND.		0/7B	
0424	B5 02 16		3154+	L	TUBDTF(,XR2),DTF	RELOAD THE DTF REG.		0/7B	
0427	58 03 0C 0D		3155+	MNN	PL\$OPM(,PL),PL\$OPC(,PL)	RESTORE ORIGINAL OP CODE.		0/7B	
		042B	3156+	CMRCLR EQU	*	* LOCAL		0/7B	
042B	F2 01 21		3157+	JNE	CMRCMD	NOT CLEAR KEY-CHK COMD MODE		0/7B	
			3159+*		INDICATE CLEAR KEY HIT IF NOT SYSTEM USER.			0B	
			3161+*		ZERO OUT PLRECA IN THE PL(AT THIS TIME THE GETMAINED ADDRESS				
			3162+*		IS IN IBA AND PLRECA)				
042E	7C 00 08		3164+	MVI	PLRECA-1(,PL),NOBIT	ZERO OUT PLRECA		0B	
0431	78 80 02		3165+	TBN	PLOPM(,PL),OP\$SYS	SYSTEM USER ?		0B	
0434	BA 02 55		3166+	SBN	LCBAT1(,DTF),LCBEOT	SET SEARCH EOT, DON'T DEQUE.		0B	
0437	7A 80 0D		3167+	SBN	PL\$OPC(,PL),OPRFSH	SET REFRESH OPERATION NEEDED.		0B	
043A	58 03 0D 0C		3168+	MNN	PL\$OPC(,PL),PL\$OPM(,PL)	SAVE THE CURRENT OP CODE.		0B	
043E	75 01 0B		3169+	L	PLTUBA(,PL),TUB	XR1 --> TUB		0B	
0441	F2 10 07		3170+	JT	CMGOFB	GO TO FORM OP FOR MLMP		0B	
			3171+*			-START-----@14			
0444	7A 80 09		3172+	SBN	TUBSCS(,TUB),TUBCLR	INDICATE CLEAR KEY DEPRESSED		0B	
0447	C0 87 03DE		3173+	B	CMRCRC	GO GIVE 07 RETURN CODE		0B	
			3174+*			---END-----@14			
		044B	3175+	CMGOFB EQU	*	* * * * *			
044B	C0 87 083B		3176+	B	CMFORB	GO FORM NEXT OP FOR MLMP		0B	

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	75
			3179+	*****				B
			3180+	* ANY TERMINAL AND NOT A STATUS MESSAGE				* B
			3181+	*****				B
			3183+	* ZERO LCB BUFFER ADDRESS BECAUSE BUFFER NOW ASSIGNED TO OP ENDED PL.				B
044F	BC 00 77	044F	3185+	CMRCMD EQU * * LOCAL				B
			3186+	MVI LCBIBA-1(,DTF),NOBIT				ZERO HIGH ORDER BYTE OF BUF AD B
0452	B5 01 52		3188+	L LCBPL@(,DTF),PL				POINT TO THE PARM LIST. B
0455	78 80 02		3189+	TBN PLOPM(,PL),OP\$SYS				SYSTEM REQUEST ? B
0458	F2 90 03		3190+	JF CMRDAT				NO-GO HANDLE DATA MODE. B
045B	BA 06 55		3191+	SBN LCBAT1(,DTF),LCBEOT+LCBDEQ				SET SEARCH EOT AND DEQ THEN B
		045E	3192+	CMRDAT EQU * * LOCAL				B
			3193+	* NON USER GET-MSG OR WHEN EOT RECEIVED FOR GET-MSG (CMRGOM)				B
		045E	3194+	CMRBMV EQU * *				B
			3196+	*****				B
			3197+	* TRANSLATE DATA				* B
			3198+	*****				B
045E	2C 01 4797 1F		3200+	MVC #CMTRL+TLFRML,\$BDREL(2,DTF) SET TRANSLATE PARM LIST				B
0463	1C 01 4791 07		3201+	MVC #CMTRL+TLTOL,PLINL(2,PL) *				B
0468	1C 01 4795 09		3202+	MVC #CMTRL+TLFRMA,PLRECA(2,PL) *				B
046D	1C 01 4793 09		3203+	MVC #CMTRL+TLTOA,PLRECA(2,PL) *				B
0472	79 80 02		3204+	TBF PLOPM(,PL),OP\$SYS				USER REQUEST, AND B
0475	38 80 15D7		3205+	TBN SAVTA1,TASTRN				DON'T TRANSLATE ? B
0479	F2 10 37		3206+	JT CMSETL				YES-SET LENGTH B
			3207+	* -----START-----@10				
047C	78 80 02		3208+	TBN PLOPM(,PL),OP\$SYS				SYSTEM REQUEST ? B
047F	F2 10 31		3209+	JT CMSETL				YES - DON'T FORCE UPPER CASE B
			3210+	* -----END-----@10				
0482	39 40 15D7		3211+	TBF SAVTA1,TASCAS				FORCE UPPER CASE CHARS ? B
0486	F2 90 2A		3212+	JF CMSETL				NO-SET LENGTH B
			3214+	* FIND AND USE SHORTEST OF PLINL OR \$BDREL FOR FORCE UPPER CASE.				B
0489	9C 01 54 07		3216+	MVC LCBWRK(2,DTF),PLINL(,PL) SAVE INL IN WORK AREA.				B
048D	9D 01 1F 07		3217+	CLC \$BDREL(2,DTF),PLINL(,PL) FROM AREA GT THAN TO AREA ?				B
0491	F2 84 04		3218+	JH CMRUCX				YES-THEN USE PLINL AS IS SET. B
0494	AC 01 54 1F		3219+	MVC LCBWRK(2,DTF),\$BDREL(,DTF) ELSE USE DTF RECORD LENGTH.				B
			3221+	*****				B
			3222+	* UPPER CASE TRANSLATE				* B
			3223+	*****				B
		0498	3225+	CMRUCX EQU * * LOCAL				B
0498	75 01 09		3226+	L PLRECA(,PL),XR1				LOAD ADDR OF START OF BUFFER. B
		049B	3227+	CMRUPX EQU * * LOCAL				B
049B	7D 40 00		3228+	CLI 0(,XR1),BLANK				THIS CHAR BLANK OR GREATER ? B
049E	F2 82 03		3229+	JL CMRUPC				NO-GO UP TO NEXT CHARACTER. B
04A1	7A 40 00		3230+	SBN 0(,XR1),BLANK				SET ON UPPER CASE ZONE BIT. B
		04A4	3231+	CMRUPC EQU * * LOCAL				B
04A4	D2 01 01		3232+	LA 1(,XR1),XR1				INCREMENT REG TO NEXT CHAR. B
04A7	8F 01 54 4633		3233+	SLC LCBWRK(2,DTF),X\$0001				DECREMENT COUNT, ANY LEFT ? B
04AC	C0 01 049B		3234+	BNZ CMRUPX				YES-GO CHECK NEXT CHAR. B

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04B0	B5	01	52		3235+	L	LCBPL@ (,DTF) ,PL		RELOAD THE PARM LIST REG.			B
					3237+		*****					B
					3238+	*	SET USER RECORD LENGTH					* B
					3239+		*****					B
				04B3	3241+	CMSETL	EQU	*	* LOCAL			B
04B3	79	80	02		3242+	TBF	PLOPM (,PL) ,OP\$SYS		USER REQUEST, AND			B
04B6	B8	80	56		3243+	TBN	LCBAT2 (,DTF) ,LCBTRC		* TRUNCATED BLOCK INDICATED ?			B
					3244+	*	-----START-----		@04			
04B9	BB	80	56		3245+	SBF	LCBAT2 (,DTF) ,LCBTRC		SET OFF TRUNCATED IND.			B
04BC	F2	90	1B		3246+	JF	CMSBFL		NO-GO SET BSCA EFFL COUNT.			B
					3247+	*	-----END-----		@04			
04BF	38	40	15D8		3248+	TBN	SAVTA2 ,TASBLK		BLOCK READ OPERATION ?			B
04C3	F2	10	0C		3249+	JT	CMSBLK		YES-GO BUMP BKX PAST THIS BLK.			B
04C6	4D	01	07 15DA		3250+	CLC	PLINL (2 ,PL) ,SAVRCL		INL LESS THAN TAS RECL ?			B
04CB	F2	02	0C		3251+	JNL	CMSBFL		NO-MORE REC'S IN THE BLOCK.			B
04CE	9F	01	25 07		3252+	SLC	\$BDBKX (2 ,DTF) ,PLINL (,PL)		ADJUST BKX TO GET THE NEXT REC.			B
				04D2	3253+	CMSBLK	EQU	*	*			B
04D2	8E	01	25 15DA		3254+	ALC	\$BDBKX (2 ,DTF) ,SAVRCL		BUMP TO NEXT REC/BLK.			B
04D7	7A	01	0F		3255+	SBN	PL\$RTC (,PL) ,RCXDTR		SET TRUNCATED IND TO USEER.			B
				04DA	3256+	CMSBFL	EQU	*	*			B
04DA	6C	01	05 1F		3257+	MVC	PLEFFL (,PL) , \$BDREL (2 ,DTF)		MOVE IN RETURNED RECORD LEN.			B
04DE	78	80	02		3258+	TBN	PLOPM (,PL) ,OP\$SYS		SYSTEM REQUEST, AND			0B
04E1	3D	06	15DB		3259+	CLI	CMSPHY ,TUB5M2		A 3270 TERMINAL ?			0B
04E5	F2	94	BC		3260+	JC	CMRETC ,FLSOHI		NO-GO SET RETURN CODE.			0B
04E8	75	02	0B		3261+	L	PLTUBA (,PL) ,XR2		XR2 -> TUB			B
04EB	B8	04	09		3262+	TBN	TUBSCS (,XR2) ,TUBRUF		RUF DAT ON THE SCREEN ?			B
04EE	F2	90	1B		3263+	JF	CMCFRM		NO-CALL FORMAT TRANSIENT			B
04F1	2C	01	15BB 26		3264+	MVC	CMRFCK (2) ,TUBPIL (,XR2)		SAVE MAX COMMAND LEN FOR PRUF			B
04F6	0F	01	15BB 15BD		3265+	SLC	CMRFCK (2) ,CMSEVN		SUBTRACT SEVEN FOR RIGHT SHIFT			B
04FC	4D	01	05 15BB		3266+	CLC	PLEFFL (2 ,PL) ,CMRFCK		INPUT DAT > MAXIMUM LENGTH ?			B
0501	F2	04	08		3267+	JNH	CMCFRM		NO-CALL FORMATTING TRANSIENT			B
0504	4C	01	05 15BB		3268+	MVC	PLEFFL (2 ,PL) ,CMRFCK		SET DATA LEN TO MAX DATA			B
0509	7A	01	0F		3269+	SBN	PL\$RTC (,PL) ,RCXDTR		SET TRUNCATED DATA TO USER			B
				050C	3270+	CMCFRM	EQU	*	* LOCAL			B
050C	B5	02	16		3271+	L	TUBDTF (,XR2) ,DTF		XR2 -> DTF(LCB)			B
				050F	3272+	CMB0C1	EQU	*	* LOCAL			B
050F	F4	10	00		3273+	SVC	0		#### TRANSIENT CALL ####			B
0512	01			0512	3274+	DC	AL1(CCPRIB)		CCP SVC RIB			B
0513	48			0513	3275+	DC	AL1(CC4B0)		* 3270 COMMAND INPUT FORMATING			0B
					3276+	*			* ALWAYS RETURNS HERE			0B
0514	F2	87	8D		3277+	J	CMRETC		GO SET RETURN CODE.			B

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			3280+	*****				B
			3281+*	BSCA WRITE OP END HANDLING				B
			3282+	*****				B
			3284+*	COME HERE ON SUCCESSFUL OP END OF A WRITE OPERATION				B
			3285+*	IF NOT PUT THEN GET - DEQUEUE THE PARAMETER LIST.				B
			3286+*	IF PUT THEN GET, REFORMAT PARM LIST AND GO BACK TO RESCHED LINE.				B
		0517	3288+	CMWEND EQU * WRITE OP END HANDLER				
0517	75 01 0B		3289+	L PLTUBA(,PL),XR1 XR1 --> TUB @28				
051A	78 20 1B		3290+	TBN TUBOTC(,XR1),X'20' IS THIS A SYS/34 DEVICE ? @28				
051D	F2 90 04		3291+	JF CMBN34 NO - CONTINUE @28				
0520	5F 01 05 05		3292+	SLC TUBER@(2,XR1),TUBER@(,XR1) YES - CLEAR THE SYS/34 @28				
			3293+*	RETRY COUNTER @28				
		0524	3294+	CMBN34 EQU * @28				
0524	B5 01 52		3295+	L LCBPL@(,DTF),PL XR1 --> CURRENT P.L. @28				
0527	79 80 02		3296+	TBF PLOPM(,PL),OP\$SYS USER REQUEST, AND B				
052A	B8 80 56		3297+	TBN LCBAT2(,DTF),LCBTRC * BLOCK TRUNCATED IND ON ? B				
052D	BB 80 56		3298+	SBF LCBAT2(,DTF),LCBTRC SET OFF THE TRUNCATED IND. B				
0530	F2 90 18		3299+	JF CMWRVI NO-GO CHECK FOR RVI RECEIVED. B				
0533	4D 01 05 15DA		3300+	CLC PLOUTL(2,PL),SAVRCL OUTL LESS THAN TAS RECL ? B				
0538	F2 02 0D		3301+	JNL CMWTRC NO-THEN OUTPUT WAS TRUNCATED. B				
			3303+	*****				B
			3304+*	USER REQUEST - PAD WITH BLANKS				B
			3305+	*****				B
053B	F4 10 00		3307+	SVC 0 #### TRANSIENT CALL ##### B				
053E	01	053E	3308+	DC AL1(CCPRI) CCP SVC RIB B				
053F	33	053F	3309+	DC AL1(CC4BB) * PAD RECORD AREA WITH BLANKS B				
0540	0001	0541	3310+	DC AL2(\$\$BSMS) ADCON FOR MLMP IOCS. B				
0542	124B	0543	3311+	DC AL2(\$\$BMCH) ADCON FOR CHECK. B				
			3313+*	BB RETURNS TO NSI+4 IF AN ERROR OCCURS. B				
			3314+*	BB RETURNS TO NSI+11 IF A NORMAL OPERATION OCCURRED (CMWRVI). B				
0544	C0 87 0176		3316+	B CMBOPE GO HANDLE ERROR CASE. B				
		0548	3318+	CMWTRC EQU * * LOCAL B				
			3319+*	SKIPPED BY BB RETURN. B				
0548	7A 01 0F		3320+	SBN PL\$RTC(,PL),RCXDTR SET TRUNCATED RETURN CODE. B				
		054B	3322+	CMWRVI EQU * * LOCAL B				
054B	B8 20 7D		3323+	TBN LCBOPC(,DTF),LCBRVI RVI RECEIVED ? B				
			3324+*	-----START-----@06				
054E	BB 20 7D		3325+	SBF LCBOPC(,DTF),LCBRVI SET OFF SEND RVI INDICATOR. B				
			3326+*	-----END-----@06				
0551	F2 90 03		3327+	JF CMWEOT NO-GO CHECK FOR SEND EOT NEED B				
0554	7C 06 0F		3328+	MVI PL\$RTC(,PL),RCXRVI SET RVI RETURN CODE. B				
		0557	3329+	CMWEOT EQU * * LOCAL B				
0557	B8 40 56		3330+	TBN LCBAT2(,DTF),LCBSET SEND EOT OPERATION ? B				
055A	F2 90 2B		3331+	JF CMWETX NO-CHECK FOR SEND EOT. B				
			3333+	*****				B
			3334+*	SENT EOT - OPERATION REQUIRED IT.				B
			3335+	*****				B

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055D	AF	01	56	56	3337+	SLC	LCBAT2(2,DTF),LCBAT2(,DTF)	CLEAR	LCBAT1	AND	LCBAT2.	B						
0561	75	02	0B		3338+	L	PLTUBA(,PL),XR2	LOAD	REG	TO	THE	TUB.	B					
0564	BB	01	0C		3339+	SBF	TUBAT2(,XR2),TUBOWN	SET	OFF	TUB	OWN	INDICATOR.	B					
0567	B5	02	16		3340+	L	TUBDTF(,XR2),DTF	RELOAD	THE	DTF	REG.	B						
					3342+*	WAS	THIS	A	EOT	FOR	SCREEN	REFRESH	OPTION,	THEN	GO	TO	RESCHEDULE.	0B
056A	78	80	0D		3344+	TBN	PL\$OPC(,PL),OPRFSH	REFRESH	OPERATION	?		0B						
056D	7B	80	0D		3345+	SBF	PL\$OPC(,PL),OPRFSH	SET	OFF	REFRESH	INDICATOR.	0B						
0570	F2	90	08		3346+	JF	CMWPGX	NO-GO	TEST	FOR	PUT	THEN	GET	0B				
0573	58	03	0C	0D	3347+	MNN	PL\$OPM(,PL),PL\$OPC(,PL)	RESTORE	ORIGINAL	OP	CODE.	0B						
0577	C0	87	05E4		3348+	B	CMREDO	GO	TO	REDO	WORK	CHECK	ON	LINE.	0B			
				057B	3350+	CMWPGX	EQU	*		*	LOCAL	B						
					3352+*	DETERMINE	IF	OP	WAS	PUT	THEN	GET	B					
057B	78	01	03		3354+	TBN	PLOPC(,PL),OPGET	WAS	IT	PUT	THEN	GET	B					
057E	F2	90	23		3355+	JF	CMRETC	JUMP	IF	NOT		B						
0581	C0	87	0C2E		3357+	B	CMWPGY	HANDLE	PUT	THE	GET	B						
0585	F2	87	5C		3359+	J	CMREDO	JUMP	TO	RESTART	THE	LINE	B					
					3361+	*****						B						
					3362+*	NOT	A	SEND	EOT	OPERAION	-	DETERMINE	IF	EOT	NEEDED	ANYWAY	* B	
					3363+	*****						B						
				0588	3365+	CMWETX	EQU	*		*	LOCAL	B						
0588	78	20	0D		3366+	TBN	PL\$OPC(,PL),OPUSER	SYSTEM	FUNCTION	?		B						
058B	F2	10	0F		3367+	JT	CMWSET	YES-GO	SET	SEND	EOT.	B						
058E	78	30	03		3368+	TBN	PLOPC(,PL),OPMSG	IS	THIS	A	PUT-MSG	B						
0591	79	80	03		3369+	TBF	PLOPC(,PL),OPORDR-OPRUF	*			OPERATION	?	B					
0594	F2	10	06		3370+	JT	CMWSET	YES-GO	SET	SEND	EOT.	B						
0597	78	01	03		3371+	TBN	PLOPC(,PL),OPGET	GET	FOLLOW	PUT	OPERATION	?	B					
059A	F2	90	07		3372+	JF	CMRETC	NO				B						
				059D	3373+	CMWSET	EQU	*		*		B						
059D	BA	40	56		3374+	SBN	LCBAT2(,DTF),LCBSET	SET	SEND	EOT.		B						
05A0	C0	87	083B		3375+	B	CMFORB	GO	TO	FORM	NEXT	OP	ON	LINE.	B			

				3377+	*****					B
				3378+	*	FINAL BSCA READ/WRITE OP END HANDLING (COULD BE IN ERP)				* B
				3379+	*****					B
			05A4	3381+	CMRETC EQU	*		*		B
05A4	B8	02	55	3382+	TBN	LCBAT1(,DTF),LCBEOT		SEARCH EOT ?		B
05A7	C0	10	083B	3383+	BT	CMFORB		YES-GO FORM NEXT OP FOR LINE.		B
05AB	78	01	03	3385+	TBN	PLOPC(,PL),OPGET		GET OPERATION ?		B
05AE	F2	90	09	3386+	JF	CMRACT		NO-GO TEST LINE ACTIVE.		B
05B1	75	02	0B	3387+	L	PLTUBA(,PL),XR2		POINT TO THE TUB.		B
05B4	BB	10	0C	3388+	SBF	TUBAT2(,XR2),TUBIIS		SET OFF INVITE SCHEDULED.		B
05B7	B5	02	16	3389+	L	TUBDTF(,XR2),DTF		POINT TO THE DTF.		B
			05BA	3390+	CMRACT EQU	*		* LOCAL		B
05BA	B8	20	56	3391+	TBN	LCBAT2(,DTF),LCBACT		LINE ACTIVE ?		B
05BD	F2	90	03	3392+	JF	CMBDEQ		NO-GO AND JUST DEQUE.		B
05C0	BA	08	55	3393+	SBN	LCBAT1(,DTF),LCBNTQ		SET ID ACTIVE PARM LST REMOVED		B
				3395+	*****					B
				3396+	*	DEQUEUE		THE PARAMETER LIST		* B
				3397+	*****					B
			05C3	3399+	CMBDEQ EQU	*		*		B
05C3	78	01	0D	3401+	TBN	PL\$OPC(,PL),OPGET		GET OPERATION IN PROCESS ?		B
05C6	F2	90	13	3402+	JF	CMNCCT		NO - DON'T UPDATE DATA COUNT.		B
05C9	B5	02	30	3403+	L	\$BDWKA(,DTF),XR2		XR1 -> BSCA WORKAREA.		B
05CC	1C	01	15B9 05	3404+	MVC	WCOUNT(2),PLEFFL(,PL)		SAVE IN TEMPORARY COUNTER.		B
05D1	8E	03	BA 15B9	3405+	ALC	\$BWRCT(4,XR2),WCOUNT		TOTAL DATA COUNT.		B
05D6	75	02	0B	3406+	L	PLTUBA(,PL),XR2		POINT TO THE TUB.		B
05D9	B5	02	16	3407+	L	TUBDTF(,XR2),DTF		POINT TO THE DTF.		B
			05DC	3408+	CMNCCT EQU	*		*		B
05DC	C0	87	1170	3410+	B	CMDEQ		DEQUEUE PL FROM LINE QUEUE		B
05E0	C0	87	0C67	3413+	B	CMPOST		POST REQUESTOR AND FREE BUFS		B
				3415+	*****					B
				3416+	*	IF LINE NOT ACTIVE - GO RESTART LINE, OTHERWISE HANDLE AN OP END				B
				3417+	*****					B
			05E4	3419+	CMREDO EQU	*		*		B
05E4	75	02	0B	3420+	L	PLTUBA(,PL),XR2		POINT TO THE TUB		B
05E7	B5	02	16	3421+	L	TUBDTF(,XR2),DTF		POINT TO THIS LINES DTF.		B
05EA	78	40	0D	3422+	TBN	PL\$OPC(,PL),OPLSNS		POLLING FOR STATUS ?	7/0/5B	B
05ED	F2	10	04	3423+	JT	CMEACT		YES-DON'T DESTROY USER OP.	7/0/5B	B
05F0	58	03	0D 0C	3424+	MNN	PL\$OPC(,PL),PL\$OPM(,PL)		SAVE CURRENT OP FOR ERP.		B
			05F4	3425+	CMEACT EQU	*		* LOCAL		B
05F4	B8	20	56	3426+	TBN	LCBAT2(,DTF),LCBACT		LINE ACTIVE ?		B
05F7	C0	10	0042	3427+	BT	CMOPND		YES-GO CHECK OP END COUNT.		B
05FB	C0	87	07BA	3428+	B	CMBSCH		BR TO RESTART THE LINE		B
				3429	*	\$E080				
				3430+	*	R-02,C-00 CHANGE LEVEL				

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3432+*****
3433+*
3434+* NAME--CMBREQ
3435+*
3436+* TITLE--ACCEPT NEW BSCA TP REQUEST
3437+*
3438+* FUNCTION--ACCEPT NEW TP PARAMETER LIST FOR BSCA TERMINAL.
3439+* PERFORM THE FUNCTION REQUESTED IF IT CAN BE HANDLED
3440+* IMMEDIATELY, OTHERWISE, PLACE THE PARAMETER INTO THE
3441+* LCB LINE QUEUE OF WORK TO BE DONE.
3442+*
3443+* OPERATION--
3444+* . IF THIS IS A DISCONNECT REQUEST, THEN INSURE THAT THE
3445+* LINE IS NOT CONNECTED TO THE SPECIFIEC TERMINAL. IF
3446+* NO INVITE REQUEST IS INVOLVED, THEN POST TP COMPLETED
3447+* TO THE SYSTEM. IF AN INVITE IS INDICATED THEN TREAT
3448+* LIKE AN INVITE ONLY REQUEST.
3449+*
3450+* . IF A PUT OPERATION TO A TERMINAL IN CCP ERP, IGNORE
3451+* THE PUT OPERATION. POST THE USER TP COMPLETE IF NO
3452+* INPUT OPERATION INDICATED. IF A PUT-THEN-GET TREAT
3453+* LIKE A GET/INVITE ONLY OPERATION.
3454+*
3455+* . IF A STOP INVITE OR PURGE I/O CALL $CC4BP TO HANDLE.
3456+* ON RETURN FINISH SCHEDULING. IF THE
3457+* BSCA TRANSIENT INDICATES AN ABORT OF THE LINE IS
3458+* REQUIRED, SET UP THE ABORT OPERATION.
3459+*
3460+* . IF A REGULAR TP DATA OPERATION TO A BSCA LINE,
3461+* CHECK TO INSURE THAT IT DOES NOT CONFLICT WITH WHAT
3462+* IS CURRENTLY BEING PERFORMED ON THE LINE.
3463+*
3464+* . IF PUT-NO-WAIT AND SPACE IS AVAILABLE FOR PARM LIST
3465+* AND DATA, MOVE THE PARAMETER LIST AND DATA TO A HOLD
3466+* BUFFER AND USE THE HOLD BUFFER FOR ANY FURTHER
3467+* REFERENCE TO THIS OPERATION. OTHERWISE, TREAT THE
3468+* REQUEST LIKE A PUT-WAIT OPERATION. NOTE: A PUT-NO-WAIT*
3469+* MESSAGE TO A BSCA SWITCHED LINE IS ALSO TREATED LIKE A *
3470+* PUT-WAIT.
3471+*
3472+* . IF A TP REQUEST THAT REQUIRES DATA TRANSFER, THEN QUEUE*
3473+* THE REQUEST ONTO THE LINE QUEUE FOR THE APPROPRIATE *
3474+* LCB.
3475+*
3476+* . AFTER QUEUEING UP A NEW TP REQUEST, CHECK THE STATUS *
3477+* OF LINE TO:
3478+* - INCLUDE A NEW GET/INVITE IF POLLING IS ALREADY
3479+* GOING ON.
3480+* - STOP A POLLING SEQUENCE IF A PUT REQUEST WAS
3481+* JUST RECEIVED.
3482+* - CONTINUE OPERATION IF THE REQUEST JUST RECEIVED IS
3483+* THE CONTINUATION OF A PREVIOUSLY STARTED BSCA LINE
3484+* OPERATION.
3485+*
3486+* . EXIT TO THE RESCHEDULE LOGIC TO:
3487+* - POST COMPLETION OF THE TP SCHEDULED OPERATION.

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\$CC4#2 \$E080/CMBREQ--NEW BSCA TP REQUEST HANDLING

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	82
		05FF	3526+	CMBREQ	EQU *	*			B
		05FF	3527+	CMBPTG	EQU *	* LOCAL			B
05FF	78 03 03		3528+	TBN	PLOPC(,PL),OPPUT+OPGET	IS OP A PUT THEN GET			B
0602	F2 90 03		3529+	JF	CMBERP	NO - SKIP SET OFF GET BIT			B
			3531+	*****					B
			3532+	* IF PUT THEN GET - SCHEDULE A PUT					B
			3533+	*****					B
0605	7B 01 0C		3535+	SBF	PL\$OPM(,PL),OPGET	SET OFF GET BIT			B
		0608	3536+	CMBERP	EQU *	* LOCAL			B
			3538+	*****					B
			3539+	* IGNORE PUT TO TERMINAL IN ERP					B
			3540+	*****					B
0608	C0 87 12A7		3542+	B	CMERPC	GO CHECK FOR AND HANDLE PUT			B
			3543+	* TO TERMINAL IN ERP.					B
			3544+	IF TERMINAL IS IN ERP AND OP WAS A PUT-ONLY CMERPC WILL GO					B
			3545+	DIRECTLY TO CMPAII. IF IN ERP AND OP WAS PUT THEN GET					B
			3546+	CMERPC RETURNS HERE TO SCHEDULE GET.					B
060C	78 04 02		3548+	TBN	PLOPM(,PL),OPSTOP	IS STOP BIT ON			B
060F	F2 90 38		3549+	JF	CMBNSP	NO-CONTINUE NON STOP CHECKING			B
			3551+	*****					B
			3552+	* STOP INVITE REQUEST					B
			3553+	*****					B
0612	D2 02 00		3555+	LA	0(,PL),XR2	LOAD PL @ INTO XR2 FOR XIENT.			B
		12C7	3556+	USING CMBSKP,XR1					B
0615	C2 01 12C7		3557+	LA	CMBSKP,XR1	LOAD @ OF SKIP BIT RTN.		C/SB	B
0619	7C 7A 2E		3558+	MVI	CMB#SB(,XR1),SBN1	SET OP TO SET POLL BIT ON.		C/SB	B
061C	F4 10 00		3559+	SVC	0	##### TRANSIENT CALL #####			B
061F	01	061F	3560+	DC	AL1(CCPRIB)	CCP SVC RIB			B
0620	3C	0620	3561+	DC	AL1(CC4BP)	ID FOR BSCA PURGE/STOP INVITE.			B
			3563+	* TRANSIENT WILL RETURN HERE IF NO ABORT NEEDED, STOP SUCCESSFUL.					B
			3564+	* \$CC4BC MAY SET UP CANCEL WHICH WILL BE HANDLED ON THE NEXT CALL					B
			3565+	* TO CCP CHECK ROUTINE (CMBMCH). #OPEND INCREMENTED TO CAUSE CALL.					B
0621	C0 87 0BF5		3567+	B	CMRQBF	GO SET TP REQ'T BITS OFF.			B
			3569+	* TRANSIENT WILL RETURN HERE IF ABORT OF LINE NEEDED.					B
			3570+	* DATA WAS BEING TRANSMITTED.					B
			3572+	*****					B
			3573+	* SET UP FOR ABORT OF LINE					B
			3574+	*****					B
		0625	3576+	CMBSTP	EQU *	* (FROM CMBOPE FOR STOP FAIL)			B
0625	B8 02 7D		3577+	TBN	LCBOPC(,DTF),OPPUT	ABORT OF A PUT ?			B
0628	C0 10 063F		3578+	BT	CMBEOT	YES-GO SET WRITE EOT.			B
062C	B5 01 30		3579+	L	\$BDWKA(,DTF),WKA	POINT TO BSCA WORK AREA.			B
062F	7C 59 88		3580+	MVI	WKDELL+4(,WKA),CPURGE	SET CCP PURGE RETURN CODE.			B
0632	7A 04 23		3581+	SBN	BSFLGD(,WKA),FWDABT	SET FORWARD ABORT REQUEST.			B

\$CC4#2 \$E080/CMBREQ--NEW BSCA TP REQUEST HANDLING

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	83
0635	75 01 1C		3582+	L	WKIOBD(,WKA),IOB	POINT TO IOB OUT OF WORK AREA.			B
0638	7B 20 05		3583+	SBF	IOBFLA(,IOB),TDLAY	SET OFF TIME DELAY SEQUENCE.			B
063B	C0 87 083B		3584+	B	CMFORB	GO TO FORM OP FOR MLMP.			B
		063F	3586+CMBEOT	EQU	*	* LOCAL			B
063F	BA 40 56		3587+	SBN	LCBAT2(,DTF),LCBSET	SET SEND EOT			B
0642	AE 01 25 21		3588+	ALC	\$BDBKX(2,DTF),\$BDBKL(,DTF)	UPDATE BLK PTR SO WONT GET			B
			3589+*			* ANY MORE DATA			B
0646	C0 87 083B		3590+	B	CMFORB	FORM NEXT MLMP OPERATION			B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	84
			3592+		*****				B
			3593+		* NON-STOP REQUEST				* B
			3594+		*****				B
		064A	3596+	CMBNSP EQU	* LOCAL				B
			3597+		* IF THIS OPERATION IS TO A TUB IN CCP ERP - THEN CANNOT HAVE A PUT				B
			3598+		* THAT WILL BE SCHEDULED				B
064A	B8 10 0D		3600+	TBN	TUBAT3(,XR2),TUBERP	IS TUB IN CCP ERP			B
064D	B5 02 16		3601+	L	TUBDTF(,XR2),DTF	POINT XR2 AT THE DTF			B
0650	F2 10 12		3602+	JT	CMBSOP	JUMP IF IN CCP ERP.			B
0653	78 06 0C		3603+	TBN	PL\$OPM(,PL),OPPNW	IS IT PUT NO WAIT			B
0656	F2 90 0C		3604+	JF	CMBSOP	IF NOT JUMP TO END OF PNW CHECK.			B
			3606+		* PUT NO WAIT REQUESTED - CONVERT IF NOT ALLOWED				B
0659	79 80 02		3608+	TBF	PLOPM(,PL),OP\$SYS	USER REQUEST, AND			B
065C	7D 30 03		3609+	CLI	PLOPC(,PL),OPMSG	LESS THAN MESSAGE LEVEL PUT ?			B
065F	F2 95 03		3610+	JC	CMBSOP,ANY+FALSE+HI+EQ	NO- SKIP SET TO WAIT OP .			B
		0662	3611+	CMBPW EQU	* LOCAL				B
0662	7B 04 0C		3612+	SBF	PL\$OPM(,PL),OPNOW	MAKE OPERATION A WAIT			B
			3614+		*****				B
			3615+		* REJECT INVALID BSCA OPERATION REQUEST SEQUENCES.				* B
			3616+		*****				B
		0665	3618+	CMBSOP EQU	* LOCAL				B
			3619+		* XR1 CONTAINS ADDRESS OF PARM LIST TO BE SCHEDULED.				B
0665	B8 80 00		3621+	TBN	\$BDDEV(,DTF),BSCA	BSCA LINE ?			B
0668	C0 90 06E7		3622+	BF	CMBSOX	NO-GO TO END OF BSCA OP CHECK			B
066C	C0 87 13AD		3623+	B	CMTASV	GO SET UP TAS SAVE AREAS.			B
0670	28 03 06D4 7D		3625+	MNN	CMTOPT+1,LCBOPC(,DTF)	USE LAST OP ON LINE FOR CHECK.			B
0675	3B 04 06D4		3626+	SBF	CMTOPT+1,OPNOW	SET OFF NO WAIT BIT.			B
0679	0C 00 073E 06D4		3627+	MVC	CMTOP2+1(1),CMTOPT+1	SET UP TEST FOR BUSY CHECK.			B
067F	B8 20 56		3628+	TBN	LCBAT2(,DTF),LCBACT	LINE ACTIVE WITH DATA ?			B
0682	F2 90 62		3629+	JF	CMBSOX	NO-GO TO END OF BSCA OP CHECK.			B
			3631+		* LINE ACTIVE				B
0685	B8 01 56		3633+	TBN	LCBAT2(,DTF),LCBRCI	RECEIVE INITIAL ?			B
0688	F2 10 5C		3634+	JT	CMBSOX	YES-TREAT LIKE LINE NOT ACTIVE.			B
068B	75 01 0B		3635+	L	PLTUBA(,PL),TUB	LOAD TUB @ INTO REG.			B
068E	6D 01 12 5C		3636+	CLC	TUBTCB(2,TUB),LCBOWN(,DTF)	THIS TASK OWN THE LINE ?			B
0692	35 01 15CB		3637+	L	CMSPL,PL	RELOAD PARM LIST REG.			B
0696	F2 01 4E		3638+	JNE	CMBSOX	NO-NO OP CONFLICT, SKIP CHECKS.			B
			3640+		* ACCEPT THE OPERATION IF AN INVITE OR PUT-NO-WAIT MESSAGE.				B
0699	7D 05 03		3642+	CLI	PLOPC(,PL),OPINV	INVITE INPUT ?			B
069C	79 80 02		3643+	TBF	PLOPM(,PL),OP\$SYS	* OR SYSTEM REQUEST ?			B
069F	F2 91 45		3644+	JC	CMBSOX,FLSOEQ	YES-OP OK, SKIP OTHER CHECKS.			B
06A2	78 36 03		3645+	TBN	PLOPC(,PL),OPMSG+OPPNW	PUT-NO WAIT/MESSAGE, AND			B
06A5	78 06 0C		3646+	TBN	PL\$OPM(,PL),OPPNW	* STILL A PUT-NO WAIT ?			B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	85
06A8	F2	10	3C		3647+	JT	CMBSOX		YES-ACCEPT THE OPERATION.			B
					3649+*		ACCEPT THE OPERATION IF THE CURRENT LINE OP IS INVITE-MESSAGE, OR					B
					3650+*		PUT-NO-WAIT-MESSAGE.					B
06AB	B8	05	7D		3652+	TBN	LCBOPC(,DTF),OPINV		INVITE OP ON LINE, AND			B
06AE	38	20	15D8		3653+	TBN	SAVTA2,TASMSG		* IS IT MESSAGE MODE ?			B
06B2	F2	10	32		3654+	JT	CMBSOX		YES-ACCEPT THIS OP REQUEST.			B
06B5	B9	08	55		3655+	TBF	LCBAT1(,DTF),LCBNTQ		PARAM LIST QUEUED, AND			B
06B8	B5	02	52		3656+	L	LCBPL@(,DTF),XR2		POINT TO CURRENT PARAM LIST.			B
06BB	B8	36	03		3657+	TBN	PLOPC(,XR2),OPPNW+OPMSG		* IS IT A PUT-NO-WAIT-MESSAGE ?			B
06BE	F2	10	26		3658+	JT	CMBSOX		YES-ACCEPT THIS OP REQUEST.			B
06C1	B9	80	0D		3659+	TBF	PL\$OPC(,XR2),OPRFSH		NOT ACTIVE WAITING REFRESH OR			B
06C4	B9	80	02		3660+	TBF	PLOPM(,XR2),OP\$SYS		NO A SYSTEM REQUEST ?			B
06C7	F2	90	1D		3661+	JF	CMBSOX		YES-ACCEPT THIS OP REQUEST			B
06CA	75	02	0B		3662+	L	PLTUBA(,PL),XR2		POINT TO THE TUB.			B
06CD	B8	01	0C		3663+	TBN	TUBAT2(,XR2),TUBOWN		THIS TUB OWN THE LINE, AND			B
06D0	B5	02	16		3664+	L	TUBDTF(,XR2),DTF		POINT TO THE DTF.			B
					3666+*		LINE ACTIVE WITH SAME TERMINAL AS THIS OP IS FOR - ONLY OK IF					B
					3667+*		THIS IS ANOTHER SUCH OPERATION (E.G. PUT BLOCK, GET BLOCK)					B
				06D3	3669+	CMTOPT	EQU	*	* LOCAL AND MODIFICATION			B
06D3	78	00	0C		3670+	TBN	PL\$OPM(,PL),#		SAME TYPE OP AS LAST TIME ?			B
06D6	F2	10	0E		3671+	JT	CMBSOX		YES-GO CONTINUE,PARAM LIST OK.			B
					3673+	*****						
					3674+*		SET REJECTED OPERATION COMPLETION RETURN CODE, ALSO GO TO DEQ IT.					
					3675+	*****						
				06D9	3677+	CMTREJ	EQU	*	* LOCAL			B
					3678+*				* XR1-PL,XR2-DTF FOR BR			B
06D9	F4	10	00		3679+	SVC	0		##### TRANSIENT CALL #####			B
06DC	01			06DC	3680+	DC	AL1(CCPRIB)		CCP SVC RIB			B
06DD	42			06DD	3681+	DC	AL1(CC4BR)		* BSCA REJECT CLEAN-UP.			B
06DE	40			06DE	3682+	BLANKC	DC	XL1'40'	CONSTANT OF A BLANK,			B
					3683+*				AND, INLINE PARAM VALUE FOR			B
					3684+*				REJECT PARAM LIST NOT Q'D.			B
06DF	3B	20	15B5		3685+	SBF	CMSWIT,CMTPRQ		TURN OFF TP REQUEST SWITCH.			B
06E3	C0	87	05E4		3686+	B	CMREDO		PREPARE TO RESCHEDULE			B
					3688+	*****						B
					3689+*		REQUEST ACCEPTED					B
					3690+	*****						B
				06E7	3692+	CMBSOX	EQU	*	*			B
					3694+	*****						B
					3695+*		QUEUE THE REQUEST (NON- DFF)					B
					3696+	*****						B
				06E7	3698+	CMQIT	EQU	*	* QUEUE NEW REQUEST			FB
06E7	C0	87	1074		3699+	B	CMQUE		QUEUE REQUEST ON LINE QUEUE			
06EB	58	03	0D 0C		3701+	MNN	PL\$OPC(,PL),PL\$OPM(,PL)		SAVE INTERNAL OP CODE.			B

\$CC4#2 \$E080/CMBREQ--NEW BSCA TP REQUEST -- NON-STOP REQUEST

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	86
06EF	78 02 03		3702+	TBN	PLOPC(,PL),OPPUT	PUT OPERATION ?			B
06F2	F2 90 07		3703+	JF	CMBTBY	NO-SKIP SETTING PUT PENDING.			B
06F5	35 02 15CD		3704+	L	CMSDTF,DTF	XR2 --> DTF			B
06F9	BA 02 56		3705+	SBN	LCBAT2(,DTF),LCBPUT	SET IND. PUT PENDING Q'D.			B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	87
			3707+	*****					B
			3708+	*	CHECK THE TP LINE AND SEE IF IT IS BUSY				B
			3709+	*****					B
		06FC	3711+	CMBTBY EQU	*		(FROM CMRQBF, CMFRMN)		B
			3713+	*	IF LINE IS NOT ACT WE CAN START AN OPERATION NOW - ELSE WILL HAVE TO				
			3714+	*	WAIT FOR AN OP END BEFORE RESCHEDULING THE LINE				
		06FC	3716+	CMBTAC EQU	*		* LOCAL		B
06FC	35 02 15CD		3717+	L	CMSDTF,DTF		POINT XR2 AT LCB		B
0700	B8 20 56		3718+	TBN	LCBAT2(,DTF),LCBACT		LINE ACTIVE ?		B
0703	F2 90 B4		3719+	JF	CMBSCH		NO-GO SCHEDULE WORK ON LINE.		B
0706	B8 01 56		3720+	TBN	LCBAT2(,DTF),LCBRCI		RECEIVE INITIAL ON LINE ?		B
0709	F2 90 25		3721+	JF	CMTPLQ		NO-GO CHECK PARM LIST Q'D.		B
070C	F2 02 0C		3722+	TBN	PL\$OPM(,PL),OPPUT		THIS A PUT REQUEST ?		B
070F	F2 10 80		3723+	JT	CMTRYC		YES-GO TO TRY PRIORITY CANCEL.		B
			3725+	*****					B
			3726+	*	READ REQUEST - LINE BUSY WITH RECEIVE INITIAL				B
			3727+	*****					B
0712	34 01 15CB		3729+	ST	CMSPL,PL		SAVE PARM LIST ADDR		B
0716	C0 87 0D8F		3730+	B	CMIVGM		GO ASSURE SIZE FOR NEW READ.		B
071A	35 01 15CB		3732+	L	CMSPL,PL		POINT TO PARM LIST		B
071E	78 80 0C		3733+	TBN	PL\$OPM(,PL),OPGETM		GETMAIN ALREADY INDICATED ?		B
0721	F2 10 09		3734+	JT	CMNOID		YES - DON'T START 2 SEC T.O.		B
0724	B5 01 30		3735+	L	\$BDWKA(,DTF),WKA		XR1--> BSC WORK AREA		B
0727	78 01 59		3736+	TBN	\$BWKMC(,WKA),X'01'		IDA RUNNING NOW ?		B
072A	F2 10 65		3737+	JT	CMTRYC		YES - GO TRY PROIRITY CANCEL		B
		072D	3738+	CMNOID EQU	*		*		B
072D	C0 87 0BD7		3739+	B	CMPAII		GO TO POST RESULTS.		B
			3741+	*****					B
			3742+	*	LINE BUSY WITH NON-RECEIVE INITIAL				B
			3743+	*****					B
		0731	3745+	CMTPLQ EQU	*		* LOCAL		B
0731	B8 08 55		3746+	TBN	LCBAT1(,DTF),LCBNTQ		PARAM LIST NOT QUEUED, AND		B
0734	75 02 0B		3747+	L	PLTUBA(,PL),XR2		POINT TO THE TUB.		B
0737	B8 01 0C		3748+	TBN	TUBAT2(,XR2),TUBOWN		* THIS REQUEST FOR LINE OWNER?		B
073A	B5 02 16		3749+	L	TUBDTF(,XR2),DTF		POINT TO THE DTF.		B
073D	78 00 0C		3750+	CMTOP2 TBN	PL\$OPM(,PL),#		SAME OP AS ON THE LINE ?		B
0740	F2 90 48		3751+	JF	CMBBSY		NO-GO TO CHECK LINE FOR BUSY.		B
			3753+	*	-----		*		B
			3754+	*	ANOTHER BLOCK OR RECORD OPERATION TO THE OWNED TERMINAL.		*		B
			3755+	*	IF A READ JUST GO SCHEDULE IT ON THE LINE (POLL IT).		*		B
			3756+	*	-----		*		B
0743	BB 08 55		3758+	SBF	LCBAT1(,DTF),LCBNTQ		PARAM LIST IS BACK IN QUE.		B
0746	78 01 0C		3759+	TBN	PL\$OPM(,PL),OPGET		IF A READ		B
0749	F2 90 29		3760+	JF	CMNNGT		GO DO PUT OPERATION		B
074C	B8 10 55		3761+	TBN	LCBAT1(,DTF),LCBINT		OP END WITH NO PARM LIST QUED ?		B
074F	BB 10 55		3762+	SBF	LCBAT1(,DTF),LCBINT		SET OFF OP END QUE'D IND.		B

ERR	LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	88
0752	F2	90 0B		3763+	JF	CMNPLQ				NO - DON'T FAKE OP END. B
0755	0E	00 472A 4633		3764+	ALC	#OPEND(1),X\$0001				UP OP END COUNT BY ONE. B
075B	8E	00 6C 4633		3765+	ALC	LCBOPE(1,DTF),X\$0001				BUMP LINE OP END COUNT. B
			0760	3766+	CMNPLQ	EQU	*			* LOCAL B
0760	7D	00 08		3767+	CLI	PLRECA-1(,PL),NOBIT				GETMAIN NEEDED ? B
0763	F2	01 96		3768+	JNE	CMNOBY				GO SCHEDULE GET OPERATION. B
			0766	3769+	CMNYGM	EQU	*			* LOCAL B
0766	34	01 15CB		3770+	ST	CMSPL,PL				SAVE PARM LIST ADDR B
076A	C0	87 0D8F		3771+	B	CMIVGM				GO ASSURE SIZE FOR NEW GET. B
076E	35	01 15CB		3773+	L	CMSPL,PL				POINT TO PARM LIST B
0772	F2	87 87		3774+	J	CMNOBY				GO SCHEDULE GET OPERATION. B
			0775	3775+	CMNNGT	EQU	*			* LOCAL B
				3777+	*					-----* B
				3778+	ANOTHER	PUT BLOCK OR RECORD	-	GETMAIN AND START OPERATION	*	* B
				3779+	*					-----* B
0775	75	02 0B		3781+	L	PLTUBA(,PL),XR2				TUB ADDRESS B
0778	B8	01 1E		3782+	TBN	TUBTA1(,XR2),TASDF				IF DFF SKIP GETMAIN B
077B	F2	10 7E		3783+	JT	CMNOBY				YES - ALREADY HAVE BUFFER B
077E	78	04 0C		3784+	TBN	PL\$OPM(,PL),OPNOW				IF NO WAIT B
0781	F2	10 78		3785+	JT	CMNOBY				YES - ALREADY HAVE BUFFER B
0784	C0	87 0FD5		3787+	B	CMGMPT				GETMAIN BUFFER, MOVE DATA IN B
0788	F2	87 71		3789+	J	CMNOBY				GO START OPERATION B
				3791+	*					***** B
				3792+	BSCA	TP LINE BUSY - DETERMINE IF ABORT NEEDED				* B
				3793+	*					***** B
				3795+	LINE IS BUSY AND MAY HAVE MORE HONORABLE REQUEST WAITING IN THE Q					B
				3797+	IF PREVIOUS OP WAS READ - TRY TO ABORT					B
				3798+	DON'T CARE IF STARTED OR NOT BECAUSE RETURN CODE OF 44 OR NON-44					B
				3799+	WILL REFLECT THIS.					B
			078B	3801+	CMBBSY	EQU	*			* LOCAL B
078B	B8	03 56		3802+	TBN	LCBAT2(,DTF),LCBRCI+LCBPUT				RECEIVE INIT AND PUT PENDING. B
078E	C0	90 0BD7		3803+	BF	CMPAII				NO-GO POST AS NECESSARY. B
				3805+	*					***** B
				3806+	PUT REQUEST	- LINE BUSY WITH RECEIVE INITIAL - PRIORITY CANCEL				B
				3807+	*					***** B
			0792	3809+	CMTRYC	EQU	*			* B
				3810+	FOR CONTROL STATION LINES PERFORM THE CANCEL FROM RESIDENT CODE					C/LB B
				3811+	FOR OTHER LINE TYPES - CALL \$CC4BC TO STOP THE LINE					C/LB B
0792	B9	C0 55		3813+	TBF	LCBAT1(,DTF),LCBCRI+LCBPRI				CANCEL ALREADY STARTED? CB
0795	BA	40 55		3814+	SBN	LCBAT1(,DTF),LCBPRI				SET CANCEL STARTED CB
0798	F2	90 1B		3815+	JF	CMGPST				YES-JUST GO POST CB
079B	B5	01 30		3816+	L	\$BDWKA(,DTF),WKA				XR1--> BSC WORK AREA CB

\$CC4#2 \$E080/CMBREQ---BSCA NEW REQUEST---LINE BUSY CHECK

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	89
079E	78 01 59		3817+	TBN	\$BWKMC(,WKA),X'01'	IDA RUNNING NOW ?			CB
07A1	F2 90 0F		3818+	JF	CMNIDA	NO - GO SET CANCEL FOR MLMP			CB
07A4	7A 10 17		3819+	SBN	\$BPOLD(,WKA),\$BPRES	SET CANCEL FLAG FOR MLMP			CB
07A7	BD 00 6C		3820+	CLI	LCBOPE(,DTF),X'00'	ANY OPENDS FOR DA LINE		@29	
07AA	F2 01 09		3821+	JNE	CMNODA	YES- ALREADY OPENDED ON POLL		@29	
07AD	F38806	07AF	3822+	DC	XL3'F38806'	NO- DO A STOP POLL OPERATION		@29	
07B0	F2 87 03		3823+	J	CMNODA	JUMP OVER CANCEL SETTING			CB
		07B3	3824+CMNIDA	EQU	*	*			CB
07B3	7A 10 17		3825+	SBN	\$BPOLD(,WKA),\$BPRES	SET CANCEL FLAG FOR MLMP			CB
		07B6	3826+CMNODA	EQU	*	* LOCAL			CB
		07B6	3827+CMGPST	EQU	*	*			B
07B6	C0 87 0BD7		3828+	B	CMPAII	GO TO POST USER.			B
			3829 *		\$E085				CCP00288
			3830+*	R-05,C-00	CHANGE LEVEL				

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3832+*****
3833+*
3834+* NAME--CMBSCH, RESCHEDULE A BSCA LINE.
3835+*
3836+* FUNCTION--TO SCHEDULE WORK ON AN INACTIVE LINE.
3837+*
3838+* OPERATION--
3839+*
3840+* . CLEAR ANY BSCA OP ENDS LEFT IN THE LCB, AND ADJUST THE
3841+* OP END TOTAL COUNT (#OPEND).
3842+*
3843+* . IF QUEUE FOR LINE IS EMPTY THEN POST THE REQUESTOR IF
3844+* TP WAS JUST SCHEDULED, CHECK FOR OTHER FUNCTION THAT
3845+* CAN BE PERFORMED BY 'CM'.
3846+*
3847+* . IF A BSCA POLL FOR STATUS OPERATION IN THE QUEUE HANDLE
3848+* IT BEFORE ANY OTHER OPERATION.
3849+*
3850+* . IF A PUT OPERATION CAN BE STARTED, PERFORM IT NEXT.
3851+*
3852+* . IF NEITHER OF ABOVE TWO, THEN TRY TO SCHEDULE AN INPUT
3853+* OPERATION. IF NO INPUT TO SCHEDULE THEN POST THE
3854+* REQUESTOR IF TP WAS JUST SCHEDULED. THEN CHECK FOR
3855+* OTHER 'CM' FUNCTION THAT CAN BE PERFORMED NOW.
3856+*
3857+* . IF A WRITE OPERATION CAN BE STARTED, THEN SET UP THE
3858+* OUTPUT DATA BUFFER FOR THE LINE. TRANSLATE THE DATA
3859+* AS REQUIRED OR SPECIFIED. ADD DEVICE DEPENDENT
3860+* CONTROL CHARACTERS.
3861+*
3862+* . IF NEW OPERATION ON A BSCA CARVE UP THE IOB(S) AND LINE
3863+* BUFFER(S) AS NECESSARY TO PERFORM THE OPERATION. SET
3864+* UP THE LINE DEPENDENT SECTION OF THE DTF. (POLLING/
3865+* ADDRESSING CHARACTERS, SWITCH ID VERIFICATION IDS,
3866+* SWITCH LINE CALL/ANSWER OPTIONS).
3867+*
3868+* . IF BSCA OPERATION SET UP TO DO THE GET OR PUT-NORMAL,
3869+* PUT-BLOCK, PUT-END OF FILE, OR PUT EOT-TO-WACK
3870+* OPERATION AS APPROPRIATE.
3871+*
3872+* . ISSUE OF IOCS CALL AFTER THE DTF IS SET-UP. FOR BSCA,
3873+* CALL $$BSMS.
3874+*
3875+* . AFTER ISSUING THE IOCS CALL, TRACE THE RESULTS.
3876+*
3877+* . IF BSCA OPERATION IS COMPLETED WITHOUT AN OP END
3878+* INTERRUPT THEN FAKE AN OP END INTERRUPT TO KEEP THE
3879+* FUNCTION GOING TIL COMPLETION. POST THE REQUESTOR IF
3880+* TP WAS JUST SCHEDULED. CHECK FOR MORE WORK TO DO AT
3881+* THIS TIME.
3882+*
3883+* ENTRY POINTS
3884+* CMBSCH - SCHEDULE WORK ON A BSCA LINE
3885+* CMNOBY - SCHEDULE FOLLOWING REQUEST BY OWNER OF LINE(CMBREQ)
3886+* CMFORB - FORM OP CODE FOR MLMP FOR INTERNAL REQUEST.
3887+*

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			3888+*	INPUT--		*
			3889+*	CMSDTF - ADDRESS OF DTF TO BE SCHEDULED.		*
			3890+*	CMSPL - ADDRESS OF TP PARAMETER LIST TO BE SCHEDULED.		*
			3891+*	#OPEND - OP END PENDING COUNT.		*
			3892+*			*
			3893+*	OUTPUT--		*
			3894+*	CMSDTF - ADDRESS OF DTF FOR LINE SCHEDULED.		*
			3895+*	CMSPL - ADDRESS OF TP REQUEST SCHEDULED.		*
			3896+*	DTF(LCB),TUB - SET UP FOR THE OPERATION PERFORMED.		*
			3897+*			*
			3898+*	EXTERNAL REFERENCES--		*
			3899+*	\$CC4B0 - FORMAT 3270 COMMAND OUTPUT.		*
			3900+*	\$CC4JD - TRANSLATE FROM EBCDIC TO ASCII.		*
			3901+*	\$CC4WR - HANDLE TRANSLATE ERRORS IN OUTPUT.		*
			3902+*	\$CC4WC - SWITCH LINE CALL/ANSWER LOG TRANSIENT.		*
			3903+*	\$TRACE - CCP TRACE ROUTINE.		*
			3904+*	CMSRPL - SEARCH LINE QUEUE FOR PL TO SCHEDULE ON LINE.		*
			3905+*	CMTASV - SAVE TERMINAL ATTRIBUTES.		*
			3906+*	CMBTAS - SETUP DTF AND IOB.		*
			3907+*	CMGINL - SET UP INPUT RECORD LENGTH.		*
			3908+*	CMPSCH - FIND SWITCH ID ENTRY IN SWITCH ID LIST.		*
			3909+*	CMASCH - FIND ADDRESSING ENTRY IN ADDRESSING LIST.		*
			3910+*			*
			3911+*	EXIT, NORMAL--		*
			3912+*	- TO CMFRMN IF FREEMAIN POSTED OR TP REQUEST TO BE		*
			3913+*	HANDLED.		*
			3914+*	- TO CMPOND IF AN OP END TO BE HANDLED.		*
			3915+*			*
			3916+*	*****		*
07BA	35 02 15CD	07BA	3918+CMBSCH EQU	*	RESCHEDULE THE LINE	B
			3919+	L CMSDTF,DTF	POINT XR2 AT DTF	B
			3921+*	*****		B
			3922+*	LINE INACTIVE AFTER OP END -		* B
			3923+*	MAKE SURE OP END COUNTS AND OWNERSHIP FLAG ARE ZERO		* B
			3924+*	*****		B
07BE	AF 01 5C 5C		3926+	SLC LCBOWN(2,DTF),LCBOWN(,DTF)	CLEAR LINE OWNERSHIP STATUS.	B
		07C2	3927+CMROPE EQU	*	* LOCAL	B
07C2	2F 00 472A 6C		3928+	SLC #OPEND,LCBOPE(1,DTF)	REMOVE LINE OP END RESIDUAL.	B
07C7	BC 00 6C		3929+	MVI LCBOPE(,DTF),NOBIT	CLEAR LINE OP END COUNT.	B
			3931+*	FREE INPUT HOLD BUFFER NOW IN CASE A PUT NEEDS THE CORE		B
07CA	BD 00 77		3933+	CLI LCBIBA-1(,DTF),NOBIT	ANY TO FREE?	B
07CD	F2 81 10		3934+	JE CMNROP	NO-SKIP FREE MAIN CALL	B
07D0	E2 01 00		3935+	LA 0(,DTF),XR1	XR1-->DTF	B
07D3	B5 02 78		3936+	L LCBIBA(,DTF),XR2	XR2-->AREA TO BE FREED	B
07D6	7C 00 77		3937+	MVI LCBIBA-1(,XR1),NOBIT	ZERO OUT IBA	B
07D9	C0 87 0F55		3938+	B CMFMRT	GO FREE THE AREA	B
07DD	D2 02 00		3939+	LA 0(,XR1),XR2	RESTORE DTF POINTER	B
		07E0	3940+CMNROP EQU	*	*	B
07E0	B8 04 6F		3941+	TBN LCBAT3(,DTF),LCBSTS	IS A POLL FOR STATUS PENDING ?	B
07E3	F2 10 0E		3942+	JT CMPOLS	YES - THEN DO RESCHEDULE NOW	B
07E6	BA 01 70		3943+	SBN LCBATR(,DTF),LCBTIM	SET DEFAULT TO RESCHED NEEDED	B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	92
07E9	39	80	15B5		3944+	TBF	CMSWIT,CMFMPS		FREEMAIN POSTED			B
07ED	BD	00	7C		3945+	CLI	LCBNW#(,DTF),NOBIT		* OR NEW REQT TO HANDLE ?			B
07F0	C0	96	0BD7		3946+	BC	CMPAII,FLSNEQ		YES - HANDLE WHILE LINE INACT.			B
					3948+		*****					B
					3949+	*	NEW REQUEST SCHEDULE --					B
					3950+	*	SEARCH PARAMETER LIST QUEUE FOR PUT REQUEST TO SCHEDULE OR					B
					3951+	*	IF NO PUT, ALL READS THAT CAN BE SCHEDULED.					B
					3952+		*****					B
				07F4	3954+	CMPOLS	EQU	*	* LOCAL			B
07F4	C0	87	119D		3955+	B	CMSRPL		LCB PL QUEUE SEARCH ROUTINE			B
					3956+	*			XR1 RETURNS PL ADDRESS			B
					3958+	*	XR1 CONTAINS ADDRESS OF PUT PARAMETER LIST TO BE SCHEDULED OR THE					B
					3959+	*	LAST READ PL THAT A BUFFER COULD BE OBTAINED FOR.					B
07F8	C0	87	13AD		3961+	B	CMTASV		NOW GO SET UP TAS SAVE AREAS.			B
				07FC	3963+	CMNOBY	EQU	*	*			B
07FC	35	02	15CD		3964+	L	CMSDTF,DTF		POINT XR2 AT DTF			B
0800	B4	01	52		3965+	ST	LCBPL@(,DTF),PL		SAVE THE PARM LIST IN LCB.			B
					3967+		*****					B
					3968+	*	DETERMINE IF OPERATION IS A READ OR WRITE					B
					3969+		*****					B
0803	78	01	0C		3971+	TBN	PL\$OPM(,PL),OPGET		IS IT READ			B
0806	F2	10	32		3972+	JT	CMFORB		JUMP IF TRUE TO READ ROUTINE			B
0809	BD	00	2F		3974+	CLI	\$BDWKA-1(,DTF),NOBIT		WORK AREA ADDRESS SET YET ?			B
080C	F2	81	0D		3975+	JE	CMNWK2		NO - DONT ADD TO TEXT SENT.			B
080F	B5	02	30		3976+	L	\$BDWKA(,DTF),XR2		XR2 -> BSCA WORKAREA.			B
0812	1C	01	15B9 05		3977+	MVC	WCOUNT(2),PLOUTL(,PL)		SAVE TEXT LENGTH FOR COUNT.			B
0817	8E	03	B6 15B9		3978+	ALC	\$BWSCT(4,XR2),WCOUNT		TOTAL OUTPUT TEXT COUNT.			B
				081C	3979+	CMNWK2	EQU	*	*			B
081C	75	02	0B		3980+	L	PLTUBA(,PL),XR2		XR2--> TUB.			B
081F	B5	02	16		3981+	L	TUBDTF(,XR2),DTF		RESTORE DTF REGISTER.			B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE	93
			3983+		*****				B
			3984+	*	START A WRITE OPERATION ON THE BSCA LINE				* B
			3985+		*****				B
0822	3D 06 15DB		3987+	CLI	CMSPHY,TUB5M2				THIS A 3270 ? 0B
0826	78 20 0D		3988+	TBN	PL\$OPC(,PL),OPUSER				SYSTEM FUNCTION ? 0B
0829	F2 94 0F		3989+	JC	CMWXLT,FLSOHI				NO-GO CHECK FOR TRANSLATION. 0B
		082C	3990+	CMB0C2 EQU	*				* LOCAL B
082C	F4 10 00		3991+	SVC	0				##### TRANSIENT CALL ##### 0B
082F	01	082F	3992+	DC	AL1(CCPRIB)				CCP SVC RIB 0B
0830	48	0830	3993+	DC	AL1(CC4B0)				BRING IN 3270 FORMAT XIENT. 0B
		0831	3994+	CMREFH EQU	*				* LOCAL 0B
0831	78 80 0D		3995+	TBN	PL\$OPC(,PL),OPREFSH				REFRESH OPERATION ? 0B
0834	F2 10 04		3996+	JT	CMWXLT				YES-DON'T UPDATE LENGTH 0B
0837	AF 01 58 60		3997+	SLC	LCBADJ(2,DTF),LCBSRT(,DTF)				DETERMINE LENGTH OF OUTPUT 0B
		083B	3999+	CMWXLT EQU	*				* LOCAL 0B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	94
			4001+	*****				B
			4002+	FORM BSCA TP REQUEST FOR MLMP -- READ OR WRITE				* B
			4003+	*****				B
		083B	4005+	CMFORB EQU *				B
			4007+	IF LINE IS ACTIVE GO FORM NEXT OPERATION - DTF ALREADY SET UP.				B
083B	B8 20 56		4009+	TBN LCBAT2(,DTF),LCBACT	LINE ACTIVE? (BETWEEN EOT)			B
083E	C0 10 0965		4010+	BT CMFVFY	YES - GO SET UP NEXT OP.			B
			4012+	-----				B
			4013+	LINE NOT ACTIVE				* B
			4014+	-----				B
0842	BB C8 02		4016+	SBF \$BDATT(,DTF),\$BCCNV+\$BCGET	SET OFF INPUT/OUTPUT IND'S.			RB
0845	BB 40 7D		4017+	SBF LCBOPC(,DTF),LCBERP	RESET BSCA TERM ERP IND.			RB
0848	98 03 7D 0C		4018+	MNN LCBOPC(,DTF),PL\$OPM(,PL)	SAVE OP FOR CNFLICT CHECK.			RB
084C	78 01 0C		4019+	TBN PL\$OPM(,PL),OPGET	THIS A GET OPERATION ?			RB
084F	75 01 0B		4020+	L PLTUBA(,PL),TUB	POINT TO THE TUB.			RB
0852	F2 10 17		4021+	JT CMFGET	YES-GO SET UP DTF FOR GET OP.			RB
			4023+	*****				RB
			4024+	SET UP DTF FOR ** PUT ** OPERATION.				* RB
			4025+	*****				RB
0855	BB 02 56		4027+	SBF LCBAT2(,DTF),LCBPUT	SET OFF PUT PENDING IND.			RB
0858	BA 40 02		4028+	SBN \$BDATT(,DTF),\$BCOUT	SET OUTPUT FILE INDICAOR.			RB
085B	BC 40 0F		4029+	MVI \$BDOPC(,DTF),\$BOPUT	SET OP CODE FOR PUT.			RB
			4031+	SET CURRENT ATTRIBUTTES, BLOCK LENGTH, AND OWNERSHIP STATUS.				RB
085E	C0 87 1330		4033+	B CMBTAS	GO SET UP DTF/IOB/TUB/LCB.			RB
0862	BA 08 34		4035+	SBN \$BDAT1(,DTF),\$BCPUT	SET PUT SPAN FILE INDICATOR.			RB
0865	AC 01 21 64		4036+	MVC \$BDBKL(2,DTF),LCBKLC(,DTF)	FILL IN DTF BLOCK LENGTH.			RB
0869	F2 87 11		4037+	J CMFLIN	GO DETERMINE LINE SETUP NEEDS.			RB

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE	95
			4039+	*****				RB
			4040+	SET UP DTF FOR ** GET ** OPERATION.				RB
			4041+	*****				RB
		086C	4043+	CMFGET EQU * * LOCAL				RB
086C	BA 88 02		4044+	SBN \$BDATT(,DTF), \$BCINP+\$BCGET SET INPUT FILE INDICATORS.				RB
086F	BC 80 0F		4045+	MVI \$BDOPC(,DTF), \$BOGET SET OP CODE FOR GET.				RB
0872	AC 01 21 72		4046+	MVC \$BDBKL(2,DTF), LCBFL(,DTF) USE MAXIMUM LINE BLOCK LEN.				RB
0876	AC 01 64 21		4047+	MVC LCBKLC(2,DTF), \$BDBKL(,DTF) FILL IN CURRENT MAX BLOCK LENRB				RB
087A	BA 01 56		4048+	SBN LCBAT2(,DTF), LCBRCI INDICATE RECEIVE INITIAL.				RB
			4050+	*****				B
			4051+	COMMON GET AND PUT DTF SETUP				B
			4052+	*****				B
		087D	4054+	CMFLIN EQU * * LOCAL				B
			4056+	*****				CB
			4057+	SET CONTROL STATION ONLY DTF FIELDS				* CB
			4058+	*****				CB
087D	AC 01 14 4D		4060+	MVC \$BDLST(2,DTF), LCBPOL(,DTF) MOVE IN POLLING LIST ADDR.				CB
0881	AC 00 15 6D		4061+	MVC \$BDIND(1,DTF), LCBLID(,DTF) FILL DESIRED ID IN THE LIST				CB
0885	AC 00 18 6D		4062+	MVC \$BDLID(1,DTF), LCBLID(,DTF) FILL DESIRED ID IN THE LIST				CB
0889	B8 80 0F		4063+	TBN \$BDOPC(,DTF), \$BOGET GET 'POLL' REQUEST ?				CB
088C	F2 10 1E		4064+	JT CMFIGR YES-GO FIGURE BUFFER CONFIG.				CB
088F	9C 00 50 08		4065+	MVC LCBID#(1,DTF), TUBSID(,TUB) FILL ID OF DESIRED TERM.				CB
0893	E2 01 7E		4066+	LA LCBADL(,DTF), XR1 FILL IN SELECTION 'ADDRESSING'				CB
0896	B4 01 14		4067+	ST \$BDLST(,DTF), XR1 * LIST ADDRESS.				CB
0899	C0 87 130B		4068+	B CMASCH GO TO FIND THE SEL'T ENTRY.				CB
089D	9C 08 86 08		4070+	MVC LCBADL+8(9,DTF), 8(,POL) MOVE IN MAX LEN SEL'T ENTRY.				CB
08A1	3C 81 08AC		4071+	MVI CMFLA+2, LCBADL+3 REFRESH INSTRUCTION DISPL.				CB
08A5	1E 00 08AC 01		4072+	ALC CMFLA+2, POLCNT(1,POL) SET TO END OF SELECT LIST.				CB
		08AA	4073+	CMFLA EQU * * MODIFICATION				CB
08AA	BC FE 00		4074+	MVI #(,DTF), ONETIM END OF LIST: OPEN LIST IND.				CB
			4076+	*****				
			4077+	FIGURE OUT THE SPACE REQUIREMENTS FOR IOBS AND BUFFERS.				B
			4078+	*****				
		08AD	4080+	CMFIGR EQU * * * B				
08AD	AC 01 23 60		4081+	MVC \$BDIOB(2,DTF), LCBSTRT(,DTF) RESTORE BUFFER START ADDRESS.				B
08B1	BD 00 2F		4082+	CLI \$BDWKA-1(,DTF), NOBIT WORK AREA ADDRESS SET YET ?				B
08B4	F2 81 0B		4083+	JE CMNWKA NO - DON'T SET RETRY COUNT				B
08B7	B5 01 30		4084+	L \$BDWKA(,DTF), WKA XR1-->WORK AREA				B
08BA	6C 00 1A 44		4085+	MVC WKERRD(1,WKA), \$BDERR(,DTF) RESTORE ERROR RETRY COUNT				B
			4086+	* -----START-----@01				
08BE	5F 01 7B 7B		4087+	SLC DCOUNT(2,WKA), DCOUNT(,WKA) INITIALIZE DELAY COUNT.				B
			4088+	* -----START-----@01				
		08C2	4089+	CMNWKA EQU * * LOCAL				B
08C2	B5 01 52		4090+	L LCBPL@(,DTF), PL RELOAD THE PL REG.				0B
			4092+	IF SYSTEM OR REFRESH OF 3270 SYSTEM, THEN RESERVE THE FIRST PART				0B
			4093+	OF THE LINE BUFFER FOR THE OUTPUT.				0B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	96	
08C5	3D	06	15DB		4095+	CLI	CMSPHY,TUB5M2					THIS A 3270 TERMINAL ?	0B
08C9	78	02	0C		4096+	TBN	PL\$OPM(,PL),OPPUT					PUT OPERATION ?	0B
08CC	78	20	0D		4097+	TBN	PL\$OPC(,PL),OPUSER					SYSTEM FUNCTION ?	0B
08CF	F2	94	09		4098+	JC	CMFIGL,FLSOHI					NO-GO HANDLE REGULARILY.	0B
08D2	8E	01	23 15F1		4099+	ALC	\$BDIOB(2,DTF),MAXMSG					RESERVE LINE BUFFER SPACE.	0B
08D7	AC	01	64 58		4100+	MVC	LCBKLC(2,DTF),LCBADJ(,DTF)					USE ADJUSTED LEN FOR BLK LEN.	B
				08DB	4101+	CMFIGL EQU	*					* LOCAL	0B
08DB	B5	01	64		4102+	L	LCBKLC(,DTF),WORK					BLOCK SIZE REQUIRED IN WORK	RB
08DE	D2	01	15		4103+	LA	LINFO(,WORK),WORK					ALLOW FOR MAX LINE CONTROL	RB
08E1	B4	01	54		4104+	ST	LCBWRK(,DTF),WORK					SAVE COMPUTED VALUE.	RB
					4106+		*****						RB
					4107+	*	INITIALIZE IOB						* RB
					4108+		*****						RB
08E4	B5	01	23		4110+	L	\$BDIOB(,DTF),IOB					LOAD PTR TO IOB.	RB
08E7	6C	00	02 00		4111+	MVC	IOBQ(1,IOB),\$BDDEV(,DTF)					BUILD IOB Q CODE.	RB
08EB	6C	01	04 54		4112+	MVC	IODBL(2,IOB),LCBWRK(,DTF)					PUT BUFFER LENGTH INTO IOB.	RB
08EF	74	01	01		4113+	ST	IOBNXT(,IOB),IOB					POINT 1ST IOB TO SELF.	RB
08F2	74	02	14		4114+	ST	IOBDTF(,IOB),DTF					POINT IOB BACK TO DTF.	RB
08F5	7C	00	0C		4115+	MVI	IOBERR(,IOB),X'00'					SET ERROR COUNT TO ZERO.	RB
08F8	74	01	09		4116+	ST	IOBDAT(,IOB),IOB					SET @ OF IOB	RB
08FB	4E	01	09 15ED		4117+	ALC	IOBDAT(2,IOB),IOBLEN					* DATA AREA.	RB
0900	6C	00	06 02		4118+	MVC	IOBFLG(1,IOB),\$BDATT(,DTF)					SET IOB FLAG BYTE.	RB
0904	7C	01	05		4119+	MVI	IOBFLA(,IOB),TXTSNT					INITIALIZE TEXT INDICATORS.	RB
0907	7C	40	07		4120+	MVI	IOBCMP(,IOB),DONE					INITIALIZE BUFFER STATUS.	RB
090A	B8	80	02		4121+	TBN	\$BDATT(,DTF),\$BCINP					GET FILE ?	RB
090D	F2	90	06		4122+	JF	CMFMOR					NO-GO CONTINUE CARVING.	RB
0910	7C	84	07		4123+	MVI	IOBCMP(,IOB),READY					ELSE SET BUFFER STATUS TO READRB	RB
0913	7C	00	05		4124+	MVI	IOBFLA(,IOB),X'00'					ZERO TEXT DIRECTION INDICATOR.	RB
				0916	4125+	CMFMOR EQU	*					* LOCAL	RB
0916	5C	01	16 09		4126+	MVC	IOBNEX(2,IOB),IOBDAT(,IOB)					DETERMINE START ADDRESS FOR	RB
091A	5E	01	16 04		4127+	ALC	IOBNEX(2,IOB),IODBL(,IOB)					* ANOTHER IOB.	RB
				091E	4128+	CMFMUL EQU	*					* LOCAL	RB
091E	5C	01	18 16		4129+	MVC	IODBN(2,IOB),IOBNEX(,IOB)					DETERMINE ADDRESS OF NEXT	RB
0922	4E	01	18 15ED		4130+	ALC	IODBN(2,IOB),IOBLEN					* DATA AREA.	RB
0927	5C	01	1A 18		4131+	MVC	IOB2NX(2,IOB),IODBN(,IOB)					DETERMINE END ADDRESS FOR	RB
092B	5E	01	1A 04		4132+	ALC	IOB2NX(2,IOB),IODBL(,IOB)					* POSSIBLE NEXT IOB/BUFFER.	RB
092F	6D	01	1A 62		4133+	CLC	IOB2NX(2,IOB),LCBBND(,DTF)					ANOTHER IOB/BUFFER FIT ?	RB
0933	F2	84	1C		4134+	JH	CMFCLN					NO-GO CLEAN-UP THIS OPEN.	RB
0936	75	02	16		4135+	L	IOBNEX(,IOB),IBX					LOAD REG WITH IOB NEXT @.	RB
0939	9C	14	14 14		4136+	MVC	IOBDTF(IOBDTF+1,IBX),IOBDTF(,IOB)					COPY THE IOB.	RB
093D	74	02	01		4137+	ST	IOBNXT(,IOB),IBX					CHAIN NEXT IOB TO LAST.	RB
0940	9C	01	09 18		4138+	MVC	IOBDAT(2,IBX),IODBN(,IOB)					MOVE IN NEW DATA BUFFER @.	RB
0944	9C	01	16 1A		4139+	MVC	IOBNEX(2,IBX),IOB2NX(,IOB)					MOVE PTR TO NEXT IOB AREA.	RB
0948	E2	01	00		4140+	LA	0(,IBX),IOB					MAKE LAST IOB IN CHAIN CURRENTRB	RB
094B	75	02	14		4141+	L	IOBDTF(,IOB),DTF					RESTORE DTF REGISTER.	RB
094E	C0	87	091E		4142+	B	CMFMUL					GO TO MULTIPLE IOB LOGIC	RB
					4144+	*	IOB AND BUFFER ALLOCATION DONE, PERFORM FINAL CLEAN-UP ACTIVITY.						RB
				0952	4146+	CMFCLN EQU	*					* LOCAL	RB
0952	BC	40	0E		4147+	MVI	\$BDCMP(,DTF),\$BCDNE					MARK DTF DONE.	RB
0955	AC	01	32 5E		4148+	MVC	\$BDINT(2,DTF),LCB\$LO(,DTF)					RESTORE C/S @ OF \$\$BSL0.	RB
0959	BC	00	2E		4149+	MVI	\$BDNDX(,DTF),X'00'					SET LINE INIT TRANS. ID TO	RB
095C	75	01	01		4150+	L	IOBNXT(,IOB),IOB					POINT TO 1ST IOB.	RB

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	97	
095F	7A	04	05	4151+		SBN	IOBFLA(,IOB),FIRST					SET FIRST BUFFER INDICATOR.	RB
0962	B5	01	52	4152+		L	LCBPL@(,DTF),PL					RELOAD THE PARM LIST REG	RB
				4155+			*****						B
				4156+			FINAL SETUP OF OP CODE AND RECORD LENGTH BEFORE IOS CALL						B
				4157+			*****						B
				0965	4159+	CMFVFY	EQU *						B
0965	B9	08	56	4160+		TBF	LCBAT2(,DTF),LCBABT					OPERATION AN ABORT, OR	B
0968	B9	02	55	4161+		TBF	LCBAT1(,DTF),LCBEOT					SEARCH FOR EOT INDICATED ?	B
096B	F2	10	1C	4162+		JT	CMFVUR					NO-GO USE USER RECORD AREA.	B
				4164+			-----*						B
				4165+			SEARCH FOR EOT-- SET TO READ 1 CHAR INTO DUMMY BUFFER						B
				4166+			-----*						B
096E	8C	01	1F 4633	4168+		MVC	\$BDREL(2,DTF),X\$0001					SET RECORD LENGTH TO ONE.	B
0973	8C	01	0D 15E4	4169+		MVC	\$BDWKB(2,DTF),FNDEOT					USE DUMMY DATA AREA TO FIND EOTB	B
0978	B5	01	30	4170+		L	\$BDWKA(,DTF),WKA					XR1-->WORK AREA	B
097B	7C	01	1A	4171+		MVI	WKERRD(,WKA),BIT7					SET RETRY COUNT TO 1	B
097E	B5	01	52	4172+		L	LCBPL@(,DTF),PL					XR1--> ACTIVE PARM LIST	B
0981	B8	02	7D	4173+		TBN	LCBOPC(,DTF),OPPUT					PUT OP CODE ?	B
0984	F2	10	37	4174+		JT	CMFVPT					YES-MUST BE ABORT, GO SEND EOT.	B
0987	F2	87	31	4175+		J	CMBSCL					GO TO CALL MLMP IOCS.	B
				098A	4177+	CMFVUR	EQU *					* LOCAL	B
098A	9C	01	0D 09	4178+		MVC	\$BDWKB(2,DTF),PLRECA(,PL)					FILL IN DATA AREA @ IN DTF.	B
098E	B8	80	02	4179+		TBN	\$BDATT(,DTF),\$BCINP					GET OPERATION ?	B
0991	F2	90	2A	4180+		JF	CMFVPT					NO-GO SET UP FINAL PUT DTF.	B
				4182+			-----*						B
				4183+			GET OPERATION						B
				4184+			-----*						B
				4186+			START THE INTERVAL TIMER RUNNING						NB
0994	C2	02	15F9	4188+		LA	TIMIOB,XR2					XR2-->TIMER IOB	NB
0998	BC	02	00	4189+		MVI	TIFLAG(,XR2),X'02'					IND.'TIME IS IN TIMER UNITS'	NB
099B	F4	10	00	4190+		SVC	0					*	NB
099E	15			099E 4191+		DC	AL1(STMRIB)					START THE TIMER	NB
099F	75	02	0B	4193+		L	PLTUBA(,PL),XR2					XR2-->TUB	NB
09A2	B5	02	16	4194+		L	TUBDTF(,XR2),DTF					XR2--->DTF	NB
09A5	78	10	03	4195+		TBN	PLOPC(,PL),OPRVI					RVI	B
09A8	79	E0	03	4196+		TBF	PLOPC(,PL),OPORDR-OPRVI					SEND OP CODE?	B
09AB	F2	90	03	4197+		JF	CMFGIL					NO-GO GET INPUT LENGTH.	B
09AE	BA	20	7D	4198+		SBN	LCBOPC(,DTF),LCBRVI					SET SEND RVI INDICATOR	B
				09B1	4199+	CMFGIL	EQU *					* LOCAL	B
09B1	B8	01	56	4200+		TBN	LCBAT2(,DTF),LCBRCI					RECEIVE INITIAL ON A	C/SB
09B4	F2	10	B4	4201+		JT	CMBSIO					YES-GO TO BSCA IOCS CALL.	C/SB
				4203+			IF NOT RECEIVE INITIAL,MLMP MAY MOVE DATA PRIOR TO \$\$BMCH CALL						B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	98
					4204+*		,THEREFORE GETMAIN AND SET UP DTF TO BE READY.					B
09B7	C0	87	13E8		4206+	B	CMGINL					B
					4207+*							B
				09BB	4208+	CMBSCL	EQU *					B
09BB	F2	87	AD		4209+	J	CMBSIO					B
					4211+*		-----*					B
					4212+*		PUT OPERATION					B
					4213+*		-----*					B
				09BE	4215+	CMFVPT	EQU *					B
09BE	BC	40	0F		4216+	MVI	\$BDOPC(,DTF),\$BOPUT					B
09C1	BC	00	0E		4217+	MVI	\$BDCMP(,DTF),\$BCREQ					B
09C4	B8	40	56		4218+	TBN	LCBAT2(,DTF),LCBSET					B
09C7	F2	10	5A		4219+	JT	CMFVET					B
09CA	9C	01	1F 05		4220+	MVC	\$BDREL(2,DTF),PLOUTL(,PL)					B
					4222+*		IF SYSTEM REQUEST OR REFRESH OPERATION, THEN USE RESERVED AREA IN0B					0B
					4223+*		THE LINE BUFFER.					0B
09CE	3D	06	15DB		4225+	CLI	CMSPHY,TUB5M2					0B
09D2	78	20	0D		4226+	TBN	PL\$OPC(,PL),OPUSER					0B
09D5	F2	94	08		4227+	JC	CMFVMD,FLSOHI					0B
09D8	AC	01	0D 60		4228+	MVC	\$BDWKB(2,DTF),LCBSRT(,DTF)					0B
09DC	AC	01	1F 58		4229+	MVC	\$BDREL(2,DTF),LCBADJ(,DTF)					0B
				09E0	4230+	CMFVMD	EQU *					0B
09E0	78	01	03		4231+	TBN	PLOPC(,PL),OPGET					0B
09E3	F2	10	09		4232+	JT	CMFPEW					0B
09E6	78	30	03		4233+	TBN	PLOPC(,PL),OPMSG					0B
09E9	79	80	03		4234+	TBF	PLOPC(,PL),OPORDR-OPRUF					0B
					4236+*		SET PUT-EOT TO ACK OR WACK FOR 3270 SYSTEM FOR PUT-MSG.					0B
09EC	F2	90	1B		4238+	JF	CMFPT0					0B
				09EF	4239+	CMFPEW	EQU *					0B
09EF	75	01	0B		4240+	L	PLTUBA(,PL),TUB					0B
09F2	7D	06	23		4241+	CLI	TUBPHY(,TUB),TUB5M2					0B
09F5	B5	01	52		4242+	L	LCBPL@(,DTF),PL					0B
09F8	F2	84	0F		4243+	JH	CMFPT0					0B
09FB	BC	44	0F		4244+	MVI	\$BDOPC(,DTF),\$BOPEW					0B
09FE	BA	40	56		4245+	SBN	LCBAT2(,DTF),LCBSET					0B
0A01	78	20	0D		4246+	TBN	PL\$OPC(,PL),OPUSER					0B
0A04	F2	10	64		4247+	JT	CMBSIO					0B
					4248+*							0B
0A07	F2	87	3B		4249+	J	CMFVPM					0B
				0A0A	4251+	CMFPT0	EQU *					0B
0A0A	79	20	0D		4252+	TBF	PL\$OPC(,PL),OPUSER					B
0A0D	79	30	03		4253+	TBF	PLOPC(,PL),OPMSG					B
0A10	F2	10	40		4254+	JT	CMFVRC					B
0A13	78	30	03		4255+	TBN	PLOPC(,PL),OPMSG					B
0A16	79	80	03		4256+	TBF	PLOPC(,PL),OPORDR-OPRUF					B
0A19	8D	01	1F 4632		4257+	CLC	\$BDREL(2,DTF),X\$0000					B
0A1E	F2	96	21		4258+	JC	CMFVPB,FLSNEQ					B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	99
0A21	BA	40	56		4259+	SBN	LCBAT2(,DTF),LCBSET		SET SEND EOT IND.			B
				0A24	4260+	CMFVET	EQU	*	* LOCAL			B
0A24	B8	08	56		4261+	TBN	LCBAT2(,DTF),LCBABT		ABORT OF A -			
0A27	B8	02	7D		4262+	TBN	LCBOPC(,DTF),OPPUT		* PUT ?			
0A2A	F2	90	0F		4263+	JF	CMFABT		NO-CONTINUE			
0A2D	B5	01	30		4264+	L	\$BDWKA(,DTF),WKA		XR1-->WORK AREA			
0A30	7C	00	1A		4265+	MVI	WKERRD(,WKA),NOBIT		SET RETRY COUNT TO 0			
0A33	4C	01	7B 15B2		4266+	MVC	DCOUNT(2,WKA),X\$FFFC		SET DELAY COUNT VERY HIGH			
0A38	C0	87	0B31		4267+	B	CMFRTN		GO WAIT FOR OP END			
				0A3C	4268+	CMFABT	EQU	*	LOCAL			
0A3C	BC	42	0F		4269+	MVI	\$BDOPC(,DTF),\$BOPEF		SET PUT END OF FILE OP CODE			B
0A3F	F2	87	E4		4270+	J	CMFAKE		GO FAKE CALL TO MLMP, FORCE CHKB			
				0A42	4272+	CMFVPB	EQU	*	* LOCAL			B
0A42	BC	41	0F		4273+	MVI	\$BDOPC(,DTF),\$BOPEB		SET OP CODE TO PUT END OF BLOCKB			
				0A45	4274+	CMFVPM	EQU	*	* LOCAL			0B
0A45	6D	01	05 64		4275+	CLC	PLOUTL(2,PL),LCBKLC(,DTF)		OUTL GREATER THAN BLOCK LEN ?			B
0A49	F2	04	1F		4276+	JNH	CMBSIO		NO-GO CALL MLMP IOCS.			B
0A4C	AC	01	1F 64		4277+	MVC	\$BDREL(2,DTF),LCBKLC(,DTF)		TRUNCATE TO BLOCK LENGTH.			B
0A50	F2	87	15		4278+	J	CMFVSM		GO SET TRUNCATED IND.			B
				0A53	4280+	CMFVRC	EQU	*	* LOCAL			B
0A53	75	01	0B		4281+	L	PLTUBA(,PL),TUB		LOAD THE TUB REG.			B
0A56	39	13	15D8		4282+	TBF	SAVTA2,TASITB+TASPAN+TASVRL		MLMP VARIABLE SUPPORT ?			B
0A5A	9D	01	1F 21		4283+	CLC	\$BDREL(2,DTF),TUBRCL(,TUB)		OUTL LT TAS RECORD LEN ?			B
0A5E	F2	91	0A		4284+	JC	CMBSIO,FLSOEQ		YES-CALL MLMP, ALL IS SET.			B
0A61	F2	82	04		4285+	JL	CMFVSM		OUTL LT TAS RECL, BLANKS NEEDED			B
0A64	9C	01	1F 21		4286+	MVC	\$BDREL(2,DTF),TUBRCL(,TUB)		USE TAS RECORD LEN FOR PUT.			B
				0A68	4287+	CMFVSM	EQU	*	* LOCAL			B
0A68	BA	80	56		4288+	SBN	LCBAT2(,DTF),LCBTRC		SET TRUNCATED INDICATOR.			B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 100
			4290+	*****				B
			4291+*	ISSUE START I/O OPERATION TO MLMP (BSCA IOS) - READ OR WRITE*				B
			4292+	*****				B
		0A6B	4294+	CMBSIO EQU *	* LOCAL			B
0A6B	B8 02 7D		4295+	TBN	LCBOPC(,DTF),OPPUT	PUT OPERATION		
0A6E	F2 90 04		4296+	JF	CMTROF	NO-CONTINUE		
0A71	3B 20 4630		4297+	SBF	\$FLGC,#NTRAC	SET OFF NO TRACE INDICATOR		
		0A75	4298+	CMTROF EQU *	*			
0A75	B5 01 52		4300+	L	LCBPL@(,DTF),PL	RELOAD THE PL REG.		B
0A78	BB 04 56		4301+	SBF	LCBAT2(,DTF),LCBSEC	SET OFF SECOND BLOCK IND.		B
0A7B	B8 01 56		4302+	TBN	LCBAT2(,DTF),LCBRCI	RECEIVE INITIAL ?		B
0A7E	F2 10 40		4303+	JT	CMSDTX	YES-GO TO MLMP		B
0A81	BA 04 56		4304+	SBN	LCBAT2(,DTF),LCBSEC	SET ON SECOND BLOCK IND.		B
0A84	78 01 0C		4305+	TBN	PL\$OPM(,PL),OPGET	GET OPERATION AND		B
0A87	B9 02 55		4306+	TBF	LCBAT1(,DTF),LCBEOT	* NOT SEARCH EOT AND		B
0A8A	F2 90 34		4307+	JF	CMSDTX	NO-CALL MLMP		B
			4308+*	GET OPERATION AND NOT RECEIVE INITIAL AND NOT SEARCH EOT, THEN				B
			4309+*	DON'T CALL MLMP. MLMP HAS ALREADY STARTED THE NEXT GET. WAIT FOR				B
			4310+*	THE OP-END AND CALL CHECK TO MOVE THE DATA.				B
0A8D	39 C0 15D8		4311+	TBF	SAVTA2,TASREC+TASBLK	MESSAGE MODE TERMINAL ?		B
0A91	F2 10 1B		4312+	JT	CMBNOG	YES - DON'T GO TO MLMP.		B
0A94	38 80 15D8		4313+	TBN	SAVTA2,TASREC	RECORD MODE TERMINAL ?		B
0A98	B5 01 23		4314+	L	\$BDIOB(,DTF),XR1	XR1 --> IOB.		B
0A9B	7D 80 07		4315+	CLI	IOBCMP(,XR1),PROCES	IOB IN PROCESS ?		B
0A9E	B5 01 52		4316+	L	LCBPL@(,DTF),PL	XR1 --> PARM LIST.		B
0AA1	F2 96 0B		4317+	JC	CMBNOG,FLSNEQ	NO - DON'T FAKE AN OP-END.		B
0AA4	0E 00 472A 4633		4318+	ALC	#OPEND(1),X\$0001	UP OPEND COUNT BY ONE.		B
0AAA	8E 00 6C 4633		4319+	ALC	LCBOPE(1,DTF),X\$0001	BUMP LINE OP END COUNT.		B
		0AAF	4320+	CMBNOG EQU *	* LOCAL.			
0AAF	BC 00 0E		4321+	MVI	DTFCMP(,DTF),OPACC	SET COMP TO OP ACCEPTED.		B
0AB2	BB 04 34		4322+	SBF	\$BDAT1(,DTF),\$BCNOW	SET OFF SPANNED RECORDS		B
0AB5	B5 01 30		4323+	L	\$BDWKA(,DTF),WKA	XR1 -> MLMP WORKAREA		B
0AB8	7B 04 1D		4324+	SBF	\$BWFG3(,WKA),F3MOVE	SET OFF DATA MOVED IND.		B
0ABB	B5 01 52		4325+	L	LCBPL@(,DTF),PL	XR1 -> PARAMETER LIST		B
0ABE	F2 87 04		4326+	J	CMTRGT	GO AROUND CALL FOR MLMP		B
		0AC1	4327+	CMSDTX EQU *	* LOCAL			
0AC1	C0 87 0001		4328+	B	\$\$BSMS	##### MLMP IOS CALL #####		B
		0AC5	4330+	CMTRGT EQU *	* LOCAL			
0AC5	C0 87 1042		4331+	B	CMTRCE	TRACE SIO		B
0AC9	01	0AC9	4332+	DC	AL1(CCPRIB)	CCP RIB		B
0ACA	09	0ACA	4333+	DC	AL1(TRRIB)	TRACE SUBRIB		B
0ACB	FB	0ACB	4334+	DC	AL1(TTBSIO)	ID FOR BSCA START IO		B
0ACC	BA 20 56		4336+	SBN	LCBAT2(,DTF),LCBACT	SET LINE ACTIVE IND.		B
0ACF	B5 01 30		4337+	L	\$BDWKA(,DTF),WKA	XR1-> MLMP WORK AREA.		B
		0AD2	4338+	CMFAKR EQU *	* LOCAL			
0AD2	78 04 24		4339+	TBN	ACKSD(,WKA),AKERR	ERROR POST PENDING FROM MLMP ?		B
0AD5	F2 90 09		4340+	JF	CMNFAK	NO - CHECK OTHERS		B
0AD8	7B 04 24		4341+	SBF	ACKSD(,WKA),AKERR	SET OFF ERROR CONDITION		B
0ADB	BD 00 6C		4342+	CLI	LCBOPE(,DTF),NOBIT	OP ENDS = 00 ?		B
0ADE	F2 81 45		4343+	JE	CMFAKE	YES - FAKE AN OP END		B
		0AE1	4344+	CMNFAK EQU *	* LOCAL			
0AE1	78 04 1D		4345+	TBN	\$BWFG3(,WKA),F3MOVE	RECORD MOVED INDICATOR ON ?		B

0AE4	F2	90	36		4346+	JF	CMFEOT		NO-GO CHECK EOT POSTED IN IOB.	B
0AE7	BA	80	7D		4347+	SBN	LCBOPC(,DTF),LCBMVD		SET ON DATA MOVED INDICATOR.	B
0AEA	B9	FF	6C		4348+	TBF	LCBOPE(,DTF),ALLBIT		OP END COUNT = 0 ?	
0AED	F2	10	36		4349+	JT	CMFAKE		YES - GO FAKE AN OP END	

4351+* IF A BLOCK MODE TERMINAL, THEN MLMP HAS ALREADY MOVED THE DATA;
 4352+* HOWEVER, THE MAX RECORD LENGTH WAS USED. WE MUST CALCULATE THE
 4353+* TRUE RECORD LENGTH BEFORE POSTING THE USER.

0AF0	39	20	15D8		4355+	TBF	SAVTA2,TASMSG		NOT MESSAGE MODE ?	
0AF4	F2	90	26		4356+	JF	CMFEOT		NO-CHECK EOT POSTED	
0AF7	0F	01	15CF 15D1		4357+	SLC	SAVCAT-2(2),SAVCAT		SUB TAR FROM CAR	
0AFD	0F	01	15CF 4633		4358+	SLC	SAVCAT-2(2),X\$0001		DECREMENT FOR SOH OR STX	
					4359+*				-----START-----@17	
0B03	B5	01	23		4360+	L	\$BDIOB(,DTF),IOB		POINT TO THE IOB.	B
0B06	78	10	06		4361+	TBN	IOBFLG(,IOB),\$BCRAN		TRANSPARENCY ?	B
					4362+*				-----START-----@17	
0B09	F2	90	06		4363+	JF	CMNXPR		NO-GOPOST	
0B0C	0F	01	15CF 4633		4364+	SLC	SAVCAT-2(2),X\$0001		DECREMENT FOR DLE	
				0B12	4365+CMNXPR	EQU	*		*	
0B12	B5	01	52		4366+	L	LCBPL@(,DTF),PL		XR1-->PARAM LIST	
0B15	4C	01	05 15CF		4367+	MVC	PLEFFL(2,PL),SAVCAT-2		PLUG NEW LENGTH	
0B1A	F2	87	14		4368+	J	CMFRTN		GO TO POSTING LOGIC	

				0B1D	4370+CMFEOT	EQU	*		* LOCAL	B
0B1D	B5	01	23		4371+	L	\$BDIOB(,DTF),IOB		POINT TO THE IOB.	B
0B20	7D	42	07		4372+	CLI	IOBCMP(,IOB),\$BCEOT		EOT POSTED IN THE IOB ?	B
0B23	F2	01	0B		4373+	JNE	CMFRTN		NO-GO EXIT NORMALLY.	B
				0B26	4374+CMFAKE	EQU	*		* LOCAL	B
0B26	0E	00	472A 4633		4375+	ALC	#OPEND(1),X\$0001		UP OP END COUNT BY ONE.	B
0B2C	8E	00	6C 4633		4376+	ALC	LCBOPE(1,DTF),X\$0001		BUMP LINE OP END COUNT.	B
				0B31	4377+CMFRTN	EQU	*		* LOCAL	B
0B31	BB	01	70		4378+	SBF	LCBATR(,DTF),LCBTIM		SET TIMER IND. OFF	B
0B34	C0	87	0BD7		4379+	B	CMPAII		GO TO POSTING LOGIC	B
					4380 *		\$E090			
					4381+*		R-02,C-00			

```

4383+*****
4384+*
4385+* TITLE: 'CMACI'
4386+*
4387+* FUNCTION: SATISFY ACCEPT OPERATION AFTER AN INVITE OP ENDS.
4388+*
4389+* OPERATION:
4390+* . SET FIELDS IN ACCEPT PARAMETER LIST TO REFLECT DATA RECEIVED.*
4391+* . IF DFF TERMINAL, QUEUE ACCEPT REQUEST FOR $CC4DF AND EXIT.
4392+* . MOVE DATA TO THE ACCEPT RECORD AREA.
4393+* . FREEMAIN INVITE GETMAIN AREAS.
4394+* . EXIT TO CMPAII TO POST ACCEPT COMPLETE.
4395+*
4396+* INPUT: XR1 -> ACCEPT PARAMETER LIST ADDRESS.
4397+*
4398+* OUTPUT: OUTPUT WILL BE THE DATA IN THE USER RECORD AREA.
4399+*
4400+* EXTERNAL ROUTINES USED:
4401+* CMMVRT - CM MOVE ROUTINE INTERFACE.
4402+* $CC4FR - CM FREEMAIN AREAS ASSOCIATED WITH PL.
4403+*
4404+* EXITS-NORMAL: TO CMPAII TO POST ACCEPT SATISFIED.
4405+*
4406+*****
    
```

0B38 4408+CMACI EQU * ACCEPT INPUT SATISFIED

```

4410+*****
4411+* SET UP USER RECORD AREA
4412+*****
    
```

0B38 75 02 0B 4414+ L PLTUBA(,PL),XR2 LOAD POINTER TO THE TUB

4416+* BEGIN TO PLUG USER'S ACCEPT INPUT PARM LIST

0B3B B8 20 0C 4418+ TBN TUBAT2(,XR2),TUBIMI IS THIS A PROGRAM REQUEST?
 0B3E F2 90 04 4419+ JF CMNOPR BRANCH IF NOT
 0B41 5F 01 05 0F 4420+ SLC PLEFFL(2,PL),PL\$RTC(,PL) DECR DATA LENGTH PROGRAM NAME
 4421+* * LENGTH IN ACCEPT PL.

0B45 4422+CMNOPR EQU * * LOCAL

0B45 B5 02 03 4423+ L TUBPL@(,XR2),XR2 POINT TO 'INVITE' PARM LIST
 0B48 6C 01 01 01 4424+ MVC PLRTC(2,PL),PLRTC(,XR2) MOVE RETURN CODE FROM INV PARM
 4425+* XR1 POINTS TO 'ACCEPT' PARM LIST AND XR2 POINTS TO 'INVITE'.

4427+* DETERMINE IF OPERATION WAS SUCCESSFUL OR NOT

0B4C BD 03 01 4429+ CLI PLRTC(,XR2),RCXEDT CHECK AGAINST HIGHEST RETURN FOR
 4430+* WHICH DATA ACCOMPANIES THE PL.
 0B4F F2 04 04 4431+ JNH CMBGPG DATA WITH PARAMETER LIST.

```

4433+*-----*
4434+* NO DATA WITH INVITE PARAMETER LIST
4435+*-----*
    
```

4437+* ZERO INPUT LENGTH - \$CC4MX WILL BLANK USERS REC AREA IF PLEFFL=0.

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	103							
0B52	AF	01	05	05	4439+	SLC	PLEFFL(2,XR2),PLEFFL(,XR2)	ZERO	EFFECTIVE	INPUT	LENGTH								
					4441+*		-----*												
					4442+*		DATA WITH INVITE PARAMETER LIST					*							
					4443+*		-----*					*							
				0B56	4445+	CMBGPG	EQU	*	BEGIN	TO	PLUG	USER	PARM	LIST					
0B56	1C	01	4791	07	4446+	MVC	#CMMVL+MVLTOA,PLINL(2,PL)	MOVE	TARGET	LENGTH	TO	MOVE	LIST						
0B5B	6C	01	05	05	4447+	MVC	PLEFFL(2,PL),PLEFFL(,XR2)	MOVE	INVITE	EFFL	LENGTH	TO	ACCEPT						
0B5F	75	01	0B		4448+	L	PLTUBA(,XR1),XR1	POINT	TO	THE	TUB								
0B62	38	20	4729		4449+	TBN	#CMSWT,PRUFOF	IS	THE	TERMINAL	TO	BE	RESET?	@12					
0B66	F2	90	03		4450+	JF	CMNFOF	NO	-	DO	NOT	SET	OFF	TUBRUF @12					
0B69	7B	04	09		4451+	SBF	TUBSCS(,XR1),TUBRUF	RESET	TERMINAL	TO	NON-PRUF	@12							
				0B6C	4452+	CMNFOF	EQU	*	@12										
0B6C	75	01	12		4453+	L	TUBTCB(,XR1),XR1	POINT	TO	THE	USER'S	TCB							
0B6F	75	01	D8		4454+	L	TCBWK(,XR1),XR1	POINT	TO	USER'S	RECORD	AREA							
0B72	D2	01	06		4455+	LA	6(,XR1),XR1	BUMP	XR1	TO	1ST	BYTE	OF	DATA					
0B75	34	01	4793		4456+	ST	#CMMVL+MVLTOA,XR1	STORE	ADDRESS	IN	MOVE	LIST							
0B79	35	01	15CB		4458+	L	CMSPL,PL	RESTORE	ACCEPT	PL	ADDRESS								
0B7D	75	02	0B		4459+	L	PLTUBA(,PL),XR2	POINT	TO	THE	TUB								
0B80	B5	02	03		4460+	L	TUBPL@(,XR2),XR2	XR2->	INVITE	PARAM	LIST.								
				0B83	4461+	CMNMAP	EQU	*	*										
0B83	6D	01	07	05	4462+	CLC	PLINL(2,PL),PLEFFL(,XR2)	DOES	INVITE	HAVE	MORE	DATA							
					4463+*			*	THAN	ACCEPT	WANTS	?							
0B87	F2	02	07		4464+	JNL	CMGTRA	NO	-	CAN	RETURN	ALL	INVITE	DATA.					
					4466+*		HAVE	ACCEPT	INPUT	WHOSE	INPUT	LENGTH	IS	LESS	THAN	THE	EFFECTIVE		
					4467+*		LENGTH	OF	THE	INVITE,	THEREFORE	SET	ACCEPT	EFFECTIVE	LENGTH	TO	ITS		
					4468+*		REQUESTED	LENGTH,	AND	TRUNCATE	DATA.								
0B8A	7A	01	01		4470+	SBN	PLRTC(,PL),RCXDTR	SET	DATA	TRUNCATED	BIT	IN	RT	COD					
0B8D	5C	01	05	07	4471+	MVC	PLEFFL(2,PL),PLINL(,PL)	SET	ACCEPT	EFFL	TO	REQ'D	LENGTH						
				0B91	4473+	CMGTRA	EQU	*	*	LOCAL									
					4475+		*****												
					4476+*		MOVE	DATA	FROM	INVITE	HOLD	BUFFER	TO	USER	RECORD	AREA			
					4477+		*****												
0B91	2C	01	4795	09	4479+	MVC	#CMMVL+MVLFRA(2),PLRECA(,XR2)	MOVE	IN	SOURCE	ADDR	FOR	MOVE						
0B96	B5	01	0B		4481+	L	PLTUBA(,XR2),XR1	POINT	TO	THE	TUB								
0B99	78	20	0C		4482+	TBN	TUBAT2(,XR1),TUBIMI	IS	PROGRAM	NAME	SITTING	IN	SOURC						
					4483+*			FILED	AREA										
0B9C	F2	90	05		4484+	JF	CMDOIT	JUMP	IF	NO	PROGRAM	NAME	IN	AREA					
					4486+*		BUMP	THE	SOURCE	RECORD	AREA	ADDRESS	PAST	THE	PROGRAM	NAME			
					4487+*		THE	AMOUNT	TO	BUMP	THE	ADDRESS	BY	RESIDES	IN	PL\$RTC	OF	THE	INVITE
					4488+*		PARAMETER	LIST.											
0B9F	2E	01	4795	0F	4490+	ALC	#CMMVL+MVLFRA(2),PL\$RTC(,XR2)	BUMP	ADDR	PAST	PROGRAM	NAME							
				0BA4	4492+	CMDOIT	EQU	*	DO	THE	MOVE	NOW							
0BA4	BD	03	01		4493+	CLI	PLRTC(,XR2),RCXEDT	RETURN	CODE	>	THREE	AND							
0BA7	78	01	1E		4494+	TBN	TUBTA1(,XR1),TASDFE	THIS	A	DFE	TERMINAL	?							

0BAA	F2	13	0B	4495+	JC	CMNOBK,TRUahi	YES-DON'T BLANK USER'S REC AREA
0BAD	3C	02	4798	4496+	MVI	#CMMVL+MVLTYP,SWAPTO	SET TRANSLATE ON FOR MOVE
0BB1	E2	01	00	4497+	LA	0(,XR2),XR1	POINT TO INVITE PARAMETER LIST
				4499+*	MOVE	DATA - FROM LENGTH IS SET FROM PLEFFL OF INVITE PARAMETER LIST	
				4500+*		IF ZERO (NO DATA), THE ACCEPT RECORD AREA WILL BE	
				4501+*		BLANKED.	
0BB4	C0	87	1025	4503+	B	CMMVRT	BR TO MOVE AND CLEAR ROUTINE
				4505+*****			
				4506+*		FREEMAIN THE INVITE INPUT HOLD BUFFER	
				4507+*****			
				0BB8	4509+	CMNOBK EQU *	* LOCAL
0BB8	35	01	15CB	4510+	L	CMSPL,XR1	RESTORE PARAMETER LIST POINTER
0BBC	75	02	0B	4511+	L	PLTUBA(,XR1),XR2	RESTORE TUB POINTER
0BBF	BB	20	0C	4512+	SBF	TUBAT2(,XR2),TUBIMI	SET IMPLICIT INVITE BIT OFF
0BC2	B8	80	0B	4513+	TBN	TUBAT1(,XR2),TUBKNM	IS CONSOLE PGM REQ DATA ?
0BC5	F2	90	04	4514+	JF	CMNOKN	NO - BYPASS RESET OF CONSOLE
0BC8	3B	04	46F7	4515+	SBF	\$AMFLG,\$AMPF9	YES- RESET PF9 FOR CONSOLE
				0BCC	4516+	CMNOKN EQU *	* LOCAL
0BCC	B5	01	03	4517+	L	TUBPL@(,XR2),PL	POINT TO INVITE PARM LIST
0BCF	C0	87	0F66	4519+	B	\$CC4FR	FREE INVITE GETMAINED AREAS
0BD3	3A	20	15B5	4521+	SBN	CMSWIT,CMTPRQ	SET BIT SO ACCEPT PL WILL BE
				4522+*			* POSTED

```

4524+*****
4525+*
4526+* NAME--CMPAII
4527+*
4528+* TITLE--DETERMINE IF POST IS NEEDED
4529+*
4530+* FUNCTION--POST CALLER THAT THE IO REQUEST NEEDED TO ACCOMPLISH
4531+* HIS REQUEST HAS BEEN SCHEDULED AND THEN CHECK FOR
4532+* DTF TO BE RESCHEDULED AFTER OLT FAILED.
4533+*
4534+* ENTRY POINTS- CMPAII -POST REQUESTOR IF TP SCHEDULED
4535+* CMRQBF -CHECK FOR MORE WORK TO BE PERFORMED
4536+*
4537+* EXITS-NORMAL:
4538+* TO CMMTBY - IF MLTA DTF TO START AFTER OLT.
4539+* TO CMOPND - CHECK FOR MORE WORK.
4540+*
4541+*****
    
```

```

0BD7 38 20 15B5 0BD7 4543+CMPAII EQU * DETERMINE IS POST NEEDED
0BDB F2 90 1B 4544+ TBN CMSWIT,CMTPRQ WAS TP REQUEST SCHEDULED
4545+ JF CMTSRQ JUMP IF NOT ON

0BDE 35 01 15D3 4547+ L CMNWPL,PL ORIGINAL PL TO BE POSTED
0BE2 78 20 02 4548+ TBN PLOPM(,PL),OPDISC DISCONNECT OPERATION ?
0BE5 F2 10 06 4549+ JT CMDISC YES - POST
0BE8 79 04 0C 4550+ TBF PL$OPM(,PL),OPNOW IS IT WAIT OP
0BEB F2 10 07 4551+ JT CMRQBF IF WAIT OP, SKIP POST
    
```

```

4553+*****
4554+* PUT NO WAIT, INVITE OR PUT DISCONNECT - POST SCHEDULED *
4555+*****
    
```

```

0BEE D2 01 10 0BEE 4556+CMDISC EQU * * LOCAL
0BF1 F4 10 00 4558+ LA PLECB(,PL),XR1 ADDRESS OF ECB FOR REQUEST
0BF4 05 0BF4 4559+ SVC 0 POST $CC4II OR $CC4IS
4560+ DC AL1(POSTRB) * THAT NO WAIT OP SCHEDULED
    
```

```

4562+*****
4563+* DETERMINE IF OLT FAILED, IF SO RESCHEDULE LINE. *
4564+* (ENTER HERE WHEN NO POST NEEDED - AFTER STOP INVITE) *
4565+*****
    
```

```

0BF5 3B 20 15B5 0BF5 4567+CMRQBF EQU * *
4568+ SBF CMSWIT,CMTPRQ TURN OFF TP REQUEST SWITCH
0BF9 C0 87 0042 0BF9 4569+CMTSRQ EQU * * LOCAL @17
4570+ B CMOPND CHECK FOR MORE WORK
4571 * $E092
4572+* R-05,C-00 CHANGE LEVEL
    
```

\$CC4#2 \$E092 --- COMMON BSCA/MLTA SUBROUTINES

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 106

```
4575+*****  
4576+*  
4577+*  
4578+*  
4579+*      COMMON  M L T A  /  B S C A  SUBROUTINES  
4580+*  
4581+*  
4582+*  
4583+*****
```

```

4585+*****
4586+*
4587+* NAME--CMPRLS
4588+*
4589+* TITLE--SEARCH NEW REQUEST PARAMETER LIST QUEUE FOR NEW REQUEST.
4590+*
4591+* FUNCTION--
4592+* FIND FIRST NEW PUT ON PARAMETER LIST QUEUE AND
4593+* AND RETURN ITS ADDRESS. IF NO NEW PUTS RETURN ADDRESS
4594+* OF FIRST INPUT PARAMETER LIST.
4595+* OUTPUT
4596+* XR1 - ADDRESS OF PL TO HANDLED NEXT.
4597+* XR2 - ADDRESS OF POINTER TO PL TO HANDLED.
4598+*
4599+*
4600+*****
    
```

```

0BFD 34 08 0C2D 0BFD 4602+CMPRLS EQU * ONLY ENTRY POINT
0C01 3B 20 4630 4603+ ST CMPRLX+3,ARR SAVE RETURN ADDRESS
0C05 C2 02 4644 4604+ SBF $FLGC,#NTRAC SET OFF NO TRACE IND
4605+ LA @PRLQ-1,XR2 LEFT BYTE OF POINTER TO 1ST PL.
0C09 B5 01 01 0C09 4606+CMCKNX EQU * * LOCAL
4607+ L PLCHN(,XR2),PL @ OF NEXT PARAMETER LIST IN Q
0C0C 78 02 03 4608+ TBN PLOPC(,PL),OPPUT IS OP A PUT ?
0C0F 79 04 02 4609+ TBF PLOPM(,PL),OPSTOP * AND NOT STOP ?
0C12 F2 10 15 4610+ JT CMPRLX YES - RETURN IT TO CALLER.
0C15 D2 02 00 4611+ LA 0(,PL),XR2 ADDR OF CHAIN ADDRESS IN PL
0C18 BD 00 00 4612+ CLI 0(,XR2),NOBIT ANY MORE PARM LISTS ON QUEUE ?
0C1B F2 81 04 4613+ JE CMRDPL NO - NO PUTS, CHECK FOR READ
0C1E C0 87 0C09 4614+ B CMCKNX YES - CHECK THE NEXT ONE FOR PUT

0C22 35 01 4645 0C22 4616+CMRDPL EQU * * LOCAL
4617+ L @PRLQ,PL ADDRESS OF FIRST PL ON QUEUE
4618+* * RETURN IT TO USER.
0C26 C2 02 4644 4619+ LA @PRLQ-1,XR2 ADDRESS OF POINTER TO IT.
0C2A C0 87 0000 4620+CMPLX B ##
    
```

```

4622+*****
4623+*
4624+* NAME--CMWPGY
4625+*
4626+* TITLE--COMMON OP END ROUTINE FOR PUT PART OF PUT THEN GET.
4627+*
4628+* FUNCTION--
4629+* WHEN THE PUT PART HAS OP ENDED, SCHEDULE A READ
4630+* OPERATION USING THE SAME PARAMETER LIST THAT WAS
4631+* USED FOR THE WRITE.
4632+*
4633+*****
    
```

```

0C2E 34 08 0C66 0C2E 4635+CMWPGY EQU *
4636+ ST CMWPSV+3,ARR SAVE RETURN ADDRESS
    
```

```

4638+* REFORMAT THE PARAMETER LIST FOR THE READ PORTION
    
```

```

0C32 5F 01 0F 0F 4640+ SLC PL$RTC(2,PL),PL$RTC(,PL) CLEAR INTERNAL RETURN CODE
0C36 7B 02 0C 4641+ SBF PL$OPM(,PL),OPPUT SET OFF PUT BIT
0C39 7A 01 0C 4642+ SBN PL$OPM(,PL),OPGET SET ON GET BIT
    
```

```

0C3C 79 04 03 4644+ TBF PLOPC(,PL),OPNOW USER PUT THEN GET ?
0C3F F2 10 17 4645+ JT CMNWFM YES - JUST FREEMAIN, NO POST.
    
```

```

0C42 78 04 0C 4647+ TBN PL$OPM(,PL),OPNOW IF STILL A NO WAIT OPERATION
0C45 F2 10 11 4648+ JT CMNWFM JUMP IF YES TO FREEMAIN
    
```

```

4650+*****
4651+* PUT WAIT - PART OF SYSTEM PUT NO WAIT INVITE CHANGED TO *
4652+* PUT WAIT INVITE. *
4653+*****
    
```

```

0C48 7A 04 0C 4655+ SBN PL$OPM(,PL),OPNOW SET NO WAIT BIT ON IN INTERNAL
4656+* OP CODE MODIFIER FOR INVITE.
0C4B D2 01 10 4657+ LA PLECB(,PL),XR1 ECB FOR THIS REQUEST
0C4E F4 10 00 4658+ SVC 0 POST THIS ECB
0C51 05 0C51 4659+ DC AL1(POSTRB) * POST *
    
```

```

0C52 35 01 15CB 4661+ L CMSPL,PL RESTORE PL ADDRESS
0C56 F2 87 07 4662+ J CMWPGE JUMP TO RESTART THE LINE
    
```

```

4664+*****
4665+* PUT WAIT - PART OF USER PUT THEN GET -- JUST FREE PUT BUFFER *
4666+* PUT NO WAIT - PART OF SYSTEM PUT NO WAIT INVITE *
4667+*****
    
```

```

0C59 75 02 09 0C59 4669+CMNWFM EQU * FREEMAIN PUT NO WAIT AREA
4670+ L PLRECA(,PL),XR2 POINT XR2 AT RECORD AREA OF
4671+* AREA TO BE FREEMAINED.
0C5C C0 87 0F55 4672+ B CMFMRT BR TO FREEMAIN INTERFACE ROUT.
    
```

```

0C60 7C 00 08 0C60 4674+CMWPGE EQU *
4675+ MVI PLRECA-1(,PL),NOBIT ZERO HOLD BUFFER ADDRESS
    
```

\$CC4#2 \$E092/CMWPGY---COMMON PUT THEN GET OP END

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0C63 C0 87 0000

4676+CMWPSV B *-*

RETURN

```

4678+*****
4679+*
4680+* NAME--CMPOST
4681+*
4682+* TITLE--COMMON POST ROUTINE
4683+*
4684+* FUNCTION--
4685+* POST THE REQUESTOR THAT HIS REQUEST WAS
4686+* COMPLETED AND FREE UNNEEDED GETMAINED AREAS.
4687+*
4688+* OPERATION: 1. IF REQUEST IS A USER INVITE, POST TCBEBC FOR OWNING
4689+* TASK THAT THE OPERATION IS COMPLETE.
4690+*
4691+* 2. IF REQUEST IS SYSTEM INVITE OR COMMAND INTERRUPT
4692+* GET POST $CC4CP.
4693+* 3. IF REQUEST IS AN INVITE OR COMMAND INTERRUPT GET
4694+* PUT TUB ON TCBINQ.
4695+* 4 IF REQUEST IS A NON COMMAND INTERRUPT GET OR A PUT
4696+* POST PLECB OF THE REQUESTS PARAMETER LIST.
4697+* 5. FREE ALL UNNEEDED GETMAINED AREAS.
4698+*****
    
```

```

0C67 34 08 0D8E 0C67 4700+CMPOST EQU * POST THE PROPER TCB
0C6B 75 02 0B 4701+ ST CMMKRT+3,ARR RETURN ADDRESS
4702+ L PLTUBA(,PL),XR2 POINT XR2 AT TUB
0C6E 78 06 0C 4704+ TBN PL$OPM(,PL),OPPNW PUT NO WAIT
0C71 C0 10 0D62 4705+ BT CMPSFM YES - NO POST, JUST FREEMAIN @21
    
```

```

4707+* CHECK NO POST BIT TO SEE IF NO TCB IS TO BE POSTED DUE TO THE
4708+* COMPLETION OF THIS OPERATION
    
```

```

0C75 78 10 0C 4710+ TBN PL$OPM(,PL),OPBNOP IS NO POST BIT ON ? B
4711+* -----START-----@05
0C78 C0 10 0D8B 4712+ BT CMMKRT BRANCH IF NO POST BIT IS ON. B
4713+* -----END-----@05
    
```

```

4715+* IF REQUESTING TASK TERMINATED DO NOT POST - THIS IS
4716+* DETERMINED BY OP BEING A USER OPERATION BUT TERMINATION
4717+* SYSTEM TASK TCB IS NOW POINTED TO BY TUBTCB.
    
```

```

0C7C B5 02 12 4719+ L TUBTCB(,XR2),XR2 POINT XR2 AT TUB TCB
0C7F B8 84 04 4720+ TBN TCBSFG1(,XR2),TCBUSR+TCBNCL IS IT A SYSTEM TASK
0C82 79 80 02 4721+ TBF PLOPM(,PL),OP$SYS IS IT USER REQUEST
0C85 C0 10 0D87 4722+ BT CMJTFR YES- NO POST BUT FREE AREAS
    
```

```

4724+*****
4725+* OKAY TO POST
4726+*****
    
```

```

4728+* DETERMINE WHICH TCB TO POST
    
```

```

0C89 34 02 0D1A 4730+ ST PSTCB,XR2 SET DEFAULT TO POST TCB FROM TUB
0C8D 75 02 0B 4732+ L PLTUBA(,PL),XR2 POINT XR2 AT TUB
0C90 78 05 0C 4733+ TBN PL$OPM(,PL),OPINW WAS OPERATION A SYSTEM D
    
```


ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE 111
	0C93	78	80	02	4734+	TBN	PLOPM(,PL),OP\$SYS	*	INVITE INPUT ?		D
					4735+*			----	START-----		@05
	0C96	F2	90	15	4736+	JF	CMPTRM		NO SYS INVITE, CHK IN TERM.		D
	0C99	B8	40	0E	4737+	TBN	TUBAT4(,XR2),TUBTRM		RESIDENT TERM SYS INVITE ?		
	0C9C	F2	10	25	4738+	JT	CMQINQ		YES - PUT ON USER'S TCBINQ.		
					4739+*			----	END-----		@05
				0C9F	4740+	CMPCIM EQU	*		* LOCAL		D
					4741+*	TERMINAL	IN COMMAND INTERRUPT MODE OR SYS INVITE - POST CP TSB.				D
	0C9F	78	01	0C	4743+	TBN	PL\$OPM(,PL),OPGET		DID OP INVOLVE A READ		D
	0CA2	0C	01	0D1A 462B	4744+	MVC	PSTCB(2),@CPTCB		USE C.P.'S TCB FOR Q'ING		
	0CA8	F2	10	19	4745+	JT	CMQINQ		IF YES, PUT REQUEST ON TCBINQ		D
	0CAB	F2	87	A2	4746+	J	CMPSPL		NO - JUST POST CP, MUST BE		D
					4747+*				* SYS PUT NO WAIT MADE WAIT.		D
					4749+*			----	START-----		@05
				0CAE	4750+	CMPTRM EQU	*		* LOCAL		
	0CAE	B5	02	12	4751+	L	TUBTCB(,XR2),XR2		XR2 POINT AT THE TCB.		
	0CB1	B8	80	05	4752+	TBN	TCBFG2(,XR2),TCBTRC		TASK IN TERMINATION ?		
	0CB4	F2	10	D0	4753+	JT	CMJTFR		YES - GO FREE DON'T POST.		
	0CB7	75	02	0B	4754+	L	PLTUBA(,PL),XR2		XR2 --> TUB.		
					4755+*			----	END-----		@05
					4756+*	DETERMINE	WHO TO POST.				
				0CBA	4758+	CMPSII EQU	*		DETERMINE WHAT ECB TO POST		
	0CBA	78	05	0C	4759+	TBN	PL\$OPM(,PL),OPINV		WAS OP AN INVITE INPUT		
	0CBD	39	02	15B5	4760+	TBF	CMSWIT,CMSPSI		STOP INV AND STATUS POLL		
	0CC1	F2	90	63	4761+	JF	CMTSGT		IF NOT INVITE-CHECK FOR GET.		
					4763+	*****	*****				
					4764+*	INVITE INPUT OR COMMAND INTERRUPT READ - PUT TUB ON TCBINQ	*				
					4765+	*****	*****				
				0CC4	4767+	CMQINQ EQU	*		* LOCAL		
	0CC4	7D	00	08	4769+	CLI	PLRECA-1(,PL),NOBIT		NO PLRECA ?		@21
	0CC7	78	80	02	4770+	TBN	PLOPM(,PL),OP\$SYS		AND A SYSTEM OP?		@21
	0CCA	C0	16	0D8B	4771+	BC	CMMKRT,TRUAEQ		YES-LEAVE, CAN'T QUEUE IT		@21
	0CCE	B4	01	03	4772+	ST	TUBPL@(,XR2),PL		PL ADDRESS INTO TUB		
					4773+*			----	START-----		@11
	0CD1	BB	08	0E	4774+	SBF	TUBAT4(,XR2),TUBEMS		ALLOW ERROR MESSAGE TO CONSOLE		
					4775+*			----	END-----		@11
	0CD4	BA	18	0C	4776+	SBN	TUBAT2(,XR2),TUBIIQ+TUBIIS		INVITE DATA ON TCBINQ FOR THIS		
					4777+*				* TERMINAL. INPUT STILL OUT-		
					4778+*				* STANDING UNTIL ACCEPT RECVD.		
	0CD7	BC	00	0F	4780+	MVI	TUBINQ-1(,XR2),NOBIT		ZERO THIS TUB'S CHAIN POINTER		
	0CDA	35	02	0D1A	4781+	L	PSTCB,XR2		POINT XR2 AT TCB		
	0CDE	BD	00	67	4782+	CLI	TCBINQ-1(,XR2),NOBIT		ARE THERE ANY TUBS IN THE QUEUE		
	0CE1	F2	01	0A	4783+	JNE	CMTUBC		IF TUBS IN QUEUE - JUMP		
					4785+*	NO TUBS AT ALL IN THE QUEUE					
					4786+*	ADD THIS TUB TO QUEUE BY PLACING IN THE TCB POINTER					
	0CE4	9C	01	68 0B	4788+	MVC	TCBINQ(2,XR2),PLTUBA(,PL)		PLACE TUB ADDR IN TCB TUB Q.		
	0CE8	75	02	0B	4789+	L	PLTUBA(,PL),XR2		XR2---> TUB		

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	112
		0CEB	F2 87 14		4790+	J	CMTBQD					JUMP SINCE TUB IS QUEUED
					4792+*		HAVE TUBS IN THE QUEUE					
		0CEE	B5 02 68	0CEE	4794+	EQU	* TCBINQ(,XR2),XR2					CHECK FURTHER DOWN TUB CHAIN POINT XR2 AT 1ST TUB IN THE
		0CF1	BD 00 0F		4795+	L	TUBINQ-1(,XR2),NOBIT					ANYMORE TUBS IN THE QUEUE
		0CF4	F2 81 07		4796+	CLI	CMATUB					JUMP IF NOT TO ADD NOW
					4797+	JE						
					4799+*		HAVE MORE TUBS IN THE QUEUE					
					4800+*		GET ADDR OF NEXT TUB AND CONTINUE TO CHECK FOR END					
		0CF7	B5 02 10		4802+	L	TUBINQ(,XR2),XR2					POINT XR2 AT NEXT TUB
		0CFA	C0 87 0CF1		4803+	B	CMQLOP					BR TO TEST FOR END
					4805+*		FOUND END OF QUEUE SO ADD TUB TO QUEUE NOW					
		0CFE	9C 01 10 0B	0CFE	4807+	EQU	* TUBINQ(2,XR2),PLTUBA(,PL)					* LOCAL ADD THIS TUB TO THE QUEUE
					4808+	MVC						TUB HAS BEEN QUEUED
		0D02	78 80 02	0D02	4809+	EQU	*					
		0D05	F2 90 0F		4811+	TBN	PLOPM(,PL),OP\$SYS					SYSTEM INVITE ?
					4812+	JF	CMPSTB					NO - GO POST TCB ECB.
					4814+*		-----*					
					4815+*		SYSTEM INVITE OR COMMAND INTERRUPT READ - POST \$CC4CP					*
					4816+*		-----*					*
		0D08		0D08	4817+	EQU	* CMCIRD					*
		0D08	C2 01 46DE		4819+	LA	\$CPCM,XR1					ADDRESS OF \$CC4CP ECB
		0D0C	F4 10 00		4820+	SVC	0					POST ECB
		0D0F	05	0D0F	4821+	DC	AL1(POSTRB)					* POST *
		0D10	35 01 15CB		4822+	L	CMSPL,PL					RESTORE PL ADDRESS
		0D14	F2 87 74		4823+	J	CMMKRT					RETURN
					4825+*		-----*					*
					4826+*		USER INVITE POST TCBE CB IF \$CC4II IS WAITING					*
					4827+*		-----*					*
		0D17	C2 01 0000	0D17	4829+	EQU	* CMPSTB					* LOCAL
					4830+	LA	##,XR1					LOAD TCB ADDRESS TO POSTED
		0D1A		0D1A	4831+	EQU	*-1 PSTCB					
		0D1B	78 01 DB		4832+	TBN	TCBE CB(,XR1),TCBACW					IF \$CC4II NOT WAITING
		0D1E	F2 90 41		4833+	JF	CMPSFM					* DO NOT POST TCBE CB BECAUSE
					4834+*							* IT MAY BE BEING USED DURING
					4835+*							* TRANSIENT LOAD. II WILL TEST
					4836+*							* TCBIQ WHEN AN ACCEPT COMES.
		0D21	D2 01 DB		4837+	LA	TCBE CB(,XR1),XR1					ECB WITHIN TCB FOR TCBIQ
		0D24	F2 87 30		4838+	J	CMPSOE					GO POST \$CC4CP
					4840+		*****					
					4841+*		ANY PUT OR NON-COMMAND INTERRUPT GET - POST PLECB					*
					4842+		*****					*

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE 113
				0D27	4844+	CMTSGT	EQU *				
	0D27	78	01	0C	4845+	TBN	PL\$OPM(,PL),OPGET	*	LOCAL		
	0D2A	79	80	02	4846+	TBF	PLOPM(,PL),OP\$SYS	*	GET OPERATION ?		
					4847+*				IS THIS A USER		
									-----START-----		@08
	0D2D	7D	03	0F	4848+	CLI	PL\$RTC(,PL),RCXEDT		AND RET CODE > THREE ?		
	0D30	F2	94	1D	4849+	JC	CMPSPL,FLSOHI		YES OR SYS OP - JUST POST		
					4850+*				-----END-----		@08
					4852+*				-----*		
					4853+*	USER	GET -- MOVE DATA FROM HOLD BUFFER TO USERS RECORD AREA		*		
					4854+*				-----*		
	0D33	3C	02	4798	4856+	MVI	#CMMVL+MVLTYP,SWAPTO		INDICATE TO ADDR IN USER PGM		
	0D37	1C	01	4791	4857+	MVC	#CMMVL+MVLTOA,PLINL(2,PL)		DESIRED LENGTH IS TO LENGTH		
	0D3C	1C	01	4795	4858+	MVC	#CMMVL+MVLFRA,PLRECA(2,PL)		HOLD BUFFER ADDR IS FROM ADDR		
	0D41	75	02	0B	4859+	L	PLTUBA(,PL),XR2		TUB ADDRESS		
	0D44	B5	02	12	4860+	L	TUBTCB(,XR2),XR2		TCB ADDRESS		
	0D47	2C	01	4793	4861+	MVC	#CMMVL+MVLTOA,TCBWK(2,XR2)		USERS RECORD AREA ADDRESS		
	0D4C	C0	87	1025	4863+	B	CMMVRT		INTERFACE TO SYSTEM MOVE ROUTINE		
					4865+*****				*****		
					4866+*	ANY	PUT OR NON-COMMAND INTERRUPT GET - POST PLECB		*		
					4867+*****				*****		
					4869+*				-----START-----		@09
				0D50	4870+	CMPSPL	EQU *		LOCAL		
	0D50	C0	87	0F66	4871+	B	\$CC4FR		FREE GETMAINED AREA FOR REQUEST.		
	0D54	D2	01	10	4873+	LA	PLECB(,PL),XR1		ADDRESS OF ECB IN PARM LIST		
				0D57	4875+	CMPSOE	EQU *		LOCAL		
	0D57	F4	10	00	4876+	SVC	0		POST ECB		
	0D5A	05			0D5A	4877+	DC	AL1(POSTRB)	* POST *		
	0D5B	35	01	15CB	4879+	L	CMSPL,PL		PL ADDRESS		
	0D5F	F2	87	29	4880+	J	CMMKRT		EXIT POST ROUTINE		
					4881+*				-----END-----		@09
					4883+*****				*****		
					4884+*	FREEMAIN	PARAMETER LIST AND HOLD AREAS AS NECESSARY		*		
					4885+*****				*****		
				0D62	4887+	CMPSFM	EQU *		LOCAL		
	0D62	35	01	15CB	4888+	L	CMSPL,PL		PL ADDRESS		
	0D66	78	05	0C	4889+	TBN	PL\$OPM(,PL),OPINV		INVITE REQUEST ?		
	0D69	F2	10	1F	4890+	JT	CMMKRT		YES- NO FREEMAIN NEEDED		
					4891+*				* MUST BE PRESERVED UNTIL AN		
					4892+*				* ACCEPT OR STOP INVITE.		
					4894+*				-----*		
					4895+*	GET	OR PUT -- FREE HOLD BUFFER AND PARAMETER LIST		*		
					4896+*				-----*		
	0D6C	75	02	0B	4898+	L	PLTUBA(,PL),XR2		TUB ADDRESS		
	0D6F	B5	02	16	4899+	L	TUBDTF(,XR2),DTF		DTF ADDRESS		

\$CC4#2 \$E092/CMPOST---POST-ANALYSIS

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 114
0D72	B8 80 00		4900+	TBN	\$BDDEV(,DTF),BSCA	BSCA DTF AND		B
0D75	78 04 02		4901+	TBN	PLOPM(,PL),OPSTOP	STOP INVITE AND		B
0D78	B8 40 7D		4902+	TBN	LCBOPC(,DTF),LCBERP	IF WAITING FOR EOT TO STATUS		B
0D7B	F2 10 0D		4903+	JT	CMMKRT	YES - EXIT, NO FREEMAIN		B
			4904+*		IF THE ERROR OCCURED ON A SYSTEM OP	- C.P. WILL FREE THE AREA		B
0D7E	B8 40 7D		4905+	TBN	LCBOPC(,DTF),LCBERP	ERROR ON -		B
0D81	78 80 02		4906+	TBN	PLOPM(,PL),OP\$SYS	A SYSTEM OP ?		B
0D84	F2 10 04		4907+	JT	CMMKRT	YES - NO FREE NEEDED		B
		0D87	4909+CMJTFR	EQU	*	*		
0D87	C0 87 0F66		4910+	B	\$CC4FR	FREE GETMAINED AREA FOR REQUEST		
0D8B	C0 87 0000		4912+CMMKRT	B	*-*	RETURN		

```

4914+*****
4915+*
4916+* NAME--CMIVGM
4917+*
4918+* TITLE--INPUT OPERATION BUFFER ANALYSIS
4919+*
4920+* FUNCTION--ANALYSIS AND OBTAINING OF GETMAIN BUFFER FOR ALL
4921+* INPUT OPERATIONS IN THE LINE QUEUE THAT WE CAN GET
4922+* BUFFER SPACE FOR.
4923+* OPERATION--
4924+* . IF BSCA POLL FOR STATUS IS IN THE QUEUE SET ALL
4925+* POLLING SKIP BITS ON.
4926+* . IF LCB CURRENTLY HAS A HOLD AREA FREEMAIN IT.
4927+* . IF GET OPERATION TO BE SCHEDULED SET UP TO HANDLE
4928+* IT.
4929+* . IF SYSTEM INVITE TO BSCA SWITCHED LINE OWNED BY A
4930+* USER PROGRAM, THEN IGNORE THE SYSTEM REQUEST FOR
4931+* NOW.
4932+* . DETERMINE STORAGE REQUIREMENTS TO SCHEDULE EACH
4933+* INVITE OPERATION.
4934+* . IF STORAGE NOT AVAILABLE IGNORE THE REQUEST.
4935+* . IF STORAGE IS AVAILABLE SET UP TO HANDLE IT.
4936+* . IF BSCA POLL FOR STATUS, SCHEDULE IT BY ITSELF.
4937+* . GETMAIN THE SPACE NEEDED TO SCHEDULE OPERATIONS ON
4938+* THE LINE.
4939+* . SET UP THE LCB HOLD AREA TO REFLECT THE SPACE
4940+* ACQUIRED.
4941+* . SET UP GETMAIN PARAMETER LIST IN THE ACQUIRED AREA.
4942+*
4943+* ENTRY POINT--CMIVGM
4944+*
4945+* INPUT--AT LEAST ONE PARM LIST IN THE LINE QUEUE.
4946+*
4947+* OUTPUT--XR1-ADDRESS OF THE LAST TP PARAMETER LIST IN THE QUEUE.
4948+* XR2-ADDRESS OF THE DTF.
4949+* CMSPL-ADDRESS OF LAST GET/INVITE PARAMETER LIST NOT IN
4950+* CCPERP.
4951+*
4952+* EXTERNAL REFERENCES--
4953+* CMFMR2-FREE LCB HOLD BUFFER BEFORE STARTING
4954+* ANALYSIS.
4955+* CMSTOR-DETERMINE STORAGE NEED FOR INVITES.
4956+* CMBSKP-SET BSCA POLL SKIP BITS ON/OFF.
4957+* CMONSK/CMOFSK-SET MLTA POLL SKIP BITS
4958+* ON/OFF.
4959+* CMGMRT-GETMAIN HOLD BUFFER TO SCHEDULE
4960+* INVITES ON THE LINE.
4961+*
4962+* EXIT, NORMAL--TO NSI OF CALLER.
4963+*
4964+* EXIT, ERROR--TO CPHALT WITH A 4 BLITZ HALT IF THE GETMAIN FAILS.
4965+*
4966+*****
    
```

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 116
		0D8F	4968+	CMIVGM EQU *	GETMAIN ANALYSIS OF INVITE			
			4969+	*	INPUTS IN LINE QUEUE			
0D8F	34 08 0E8D		4970+	ST	CMIVGX+3,ARR			
0D93	35 02 15CD		4971+	L	CMSDTF,DTF			
0D97	3B 40 15B5		4972+	SBF	CMSWIT,CMRSLN			
			4973+	*	SET OFF INDICATION THAT LINE			
					CAN BE SCHEDULED FOR READ			
			4975+	*	POINT TO FIRST PARAMETER LIST IN THE LINE QUEUE			
0D9B	B5 01 66		4977+	L	LCBPLQ(,DTF),PL			
			4979+	*	POINT XR1 AT 1ST PARM LIST			
			4979+		IF BSCA POLL FOR STATUS ON TOP OF THE QUEUE, THEN SET ALL SKIP			0B
			4980+		BITS ON IN THE POLLING LIST.			0B
0D9E	78 40 0D		4982+	TBN	PL\$OPC(,PL),OPLSNS			0B
0DA1	B8 80 00		4983+	TBN	\$BDDEV(,DTF),BSCA			0B
0DA4	B8 88 03		4984+	TBN	\$BDATR(,DTF),\$BCMCN			0B
0DA7	F2 90 1B		4985+	JF	CMINOR			0B
0DAA	B5 01 4D		4986+	L	LCBPOL(,DTF),XR1			0B
		0DAD	4987+	CMIALL EQU *	POINT TO THE POLLING LIST.			0B
0DAD	7D F0 00		4988+	CLI	POLID(,XR1),POLEND			0B
0DB0	F2 02 12		4989+	JNL	CMINOR			0B
0DB3	1C 00 0DBA 01		4990+	MVC	CMISTS+2,POLCNT(1,XR1)			0B
0DB8	D2 01 00		4991+	CMISTS LA	#(,XR1),XR1			0B
0DBB	7A 80 02		4992+	SBN	2(,XR1),POLSKP			0B
0DBE	D2 01 03		4993+	LA	POLNXT(,XR1),XR1			0B
0DC1	C0 87 0DAD		4994+	B	CMIALL			0B
		0DC5	4996+	CMINOR EQU *	POINT TO FIRST PARM LIST.			0B
0DC5	B5 01 66		4997+	L	LCBPLQ(,DTF),PL			0B
0DC8	0F 01 15DF 15DF		4999+	SLC	CMIIND(2),CMIIND			
			5001+	*	ZERO LINE BUFFER NEEDED SIZE			
			5001+	*	DETERMINE IF OPERATION IS A READ			
		0DCE	5003+	CMDTII EQU *	* LOCAL (LOOP BACK FROM CMINPL			
0DCE	78 01 0C		5004+	TBN	PL\$OPM(,PL),OPGET			
0DD1	F2 90 87		5005+	JF	CMNXPL			
			5007+	*	HAVE READ - NOW ASSURE THE TERMINAL IS NOT IN ERP			
0DD4	75 02 0B		5009+	L	PLTUBA(,PL),XR2			
0DD7	B9 10 0D		5010+	TBF	TUBAT3(,XR2),TUBERP			
0DDA	35 02 15CD		5011+	L	CMSDTF,DTF			
0DDE	F2 90 3B		5012+	JF	CMGSBN			@30
			5015+	*	DOES THIS LCB CURRENTLY POSSESS A GETMAIN AREA FOR ITS INPUTS.			
			5016+	*	IF YES - FREEMAIN IT SO THAT THERE WILL BE A BETTER CHANCE OF			
			5017+	*	GETTING ENOUGH STORAGE TO HANDLE ALL THE OUTSTANDING INVITE INPUTS			
0DE1	BD 00 77		5019+	CLI	LCBIBA-1(,DTF),NOBIT			
0DE4	F2 81 0E		5020+	JE	CMSZND			
			5022+	*	IS INVITE BUFFER ADDR NULL			
			5023+	*	JUMP IF NULL			
			5022+	*	HAVE GETMAIN AREA WHICH WE WILL NOW FREEMAIN			
			5023+	*	GET ADDRESS OF RECORD AREA IN THE STORAGE AREA TO BE FREEMAINED			

				5024+*	FREEMAIN THE LCB HOLD BUFFER		
0DE7	B5	02	78	5026+	L	LCBIBA(,DTF),XR2	POINT XR2 AT RECORD TO BE FM
0DEA	C0	87	0F59	5027+	B	CMFMR2	BRANCH TO ISSUE FREEMAIN
				5028+*			WE WILL GET BACK AT LEAST THIS
				5029+*			MUCH SO BYPASS SETTING FREEMAIN
				5030+*			DONE FLAG.
				5032+*		REFLECT THE FREEMAIN BY ZEROING THE LCB FIELD WHICH CONTAINS THE	
				5033+*		LENGTH OF THE LCB HOLD BUFFER	
0DEE	35	02	15CD	5035+	L	CMSDTF,DTF	POINT XR2 AT THE LCB
0DF2	BC	00	77	5036+	MVI	LCBIBA-1(,DTF),NOBIT	ZERO HIGH ORDER BYTE OF BUFFER
				5037+*			TO INDICATE NULLL BUFFER ADDR
				0DF5 5039+	CMSZND EQU *		SET SIZE NEEDED NOW TO ZERO
0DF5	C0	87	0EE5	5040+	B	CMSTOR	BR TO DETERMINE SIZE NEEDED BY
				5041+*			THIS TP REQUEST
				5042+*		SIZE NEEDED RETURNED IN #BUFND	
				5044+*		COMPARE WHAT IS NEEDED AGAINST WHAT IS AVAILABLE WITH A GETMAIN	
0DF9	0D	01	15DD 47AA	5046+	CLC	#BUFND,#ANYS+1	COMPARE NEEDED VS AVAILABLE
0DFE	F2	04	25	5047+	JNH	CMGMAV	JUMP IF ENOUGH STORAGE AVAILABLE
				5049+	*****		
				5050+*		THERE IS NOT ENOUGH STORAGE AVAILABLE IN THE TP BUFFER TO	
				5051+*		SATISFY THIS READ -- CHECK THE NEXT ONE ON THE QUEUE	
				5052+	*****		
				5054+*		SET GETMAIN NEEDED BIT ON	
0E02	3A	20	473C	5056+	SBN	\$CMFM,SKIP	INDICATE NO POST FOR FREEMAIN
0E06	BA	20	70	5057+	SBN	LCBATR(,DTF),LCBGMN	SET LCB GETMAIN NEEDED
0E09	78	80	0C	5058+	TBN	PL\$OPM(,PL),OPGETM	GETMAIN ALREADY INDICATED?
0E0C	F2	10	0D	5059+	JT	CMNDCR	YES -
0E0F	7A	80	0C	5060+	SBN	PL\$OPM(,PL),OPGETM	SET GETMAIN NEEDED FOR PL
0E12	0E	00	47AB 4633	5061+	ALC	CORCNT(1),X\$0001	UP CORE COUNT +1
0E18	3B	60	473C	5062+	SBF	\$CMFM,SKIP+POST	SET OFF WAIT/POST IND.
				0E1C 5063+	CMNDCR EQU *		*
				5065+*		SET POLL SKIP BIT ON IF STATION CONTROL	
				0E1C 5067+	CMGSBN EQU *		@30
0E1C	3C	7A	12F5	5068+	MVI	CMB#SB,SBN1	SET OP TO SET ON SKIP BIT. C/SB
0E20	C0	87	12C7	5069+	B	CMBSKP	GO TO BSCA SKIP BITS RTN. C/SB
0E24	F2	87	34	5071+	J	CMNXPL	GO TO CHECK NEXT PARM LIST. B
				5073+	*****		
				5074+*		STORAGE IS AVAILABLE	*
				5075+	*****		
				0E27 5077+	CMGMAV EQU *		STORAGE IS AVAILABLE
0E27	3A	40	15B5	5078+	SBN	CMSWIT,CMRSLN	INDICATE READ CAN BE SCHEDULED
0E2B	34	01	15D5	5079+	ST	CMLPL,PL	SAVE LAST SCHEDULED READ PL @

```

5080+*
0E2F 7B 80 0C 5081+ SBF PL$OPM(,PL),OPGETM * WILL BE USED IN THE TRACE
SET OFF GETMAIN NEEDED BIT

5083+* SET THE SKIP BIT OFF FOR THIS TERMINAL

5085+* -----START-----@03
0E32 B9 01 56 5086+ TBF LCBAT2(,DTF),LCBRCI NO RECEIVE INITIAL AND B
0E35 B8 20 56 5087+ TBN LCBAT2(,DTF),LCBACT * LINE ACTIVE ? B
0E38 F2 10 08 5088+ JT CMGNSB YES-DON'T SET SKIP BIT. B
0E3B 3C 7B 12F5 5089+ MVI CMB#SB,SBF1 SET OP TO SET OFF SKIP BIT. C/SB
0E3F C0 87 12C7 5090+ B CMBSKP GO TO BSCA SKIP BITS RTN. C/SB

0E43 5092+CMGNSB EQU * * LOCAL
5093+* -----END-----@03
0E43 5094+CMNOSO EQU * COMPARE HOLD BUFFER SIZE NEEDED
0E43 0D 01 15DF 15DD 5095+ CLC CMIIND(2),#BUFND COMPARE PARM SIZE NEEDED VS
5096+* LINE QUEUE SIZE NEEDED
0E49 F2 02 06 5097+ JNL CMIV40 JUMP UNLESS PARM NEED GT LINE

5099+* STORAGE NEEDED BY CURRENT PARM LIST IS GREATER THAN THAT NEEDED BY
5100+* PREVIOUS INPUTS TESTED FOR THIS LINE
5101+* RESET THE BUFFER SIZE NEEDED FOR THIS LINE

0E4C 0C 01 15DF 15DD 5103+ MVC CMIIND(2),#BUFND MOVE BUFFER SIZE NEEDED TO FIELD

5105+* GET THE NEXT PARAMETER LIST IN THE LINE QUEUE
5106+* FIRST TEST TO SEE IF THERE IS ANOTHER PARM LIST IN THE LINE QUEUE

0E52 5108+CMIV40 EQU *
5110+* BSCA POLL FOR STATUS IS HIGHEST PRIORITY OPERATION ON THE LINE. 0B
0E52 B8 80 00 5112+ TBN $BDDEV(,DTF),BSCA BSCA DTF, AND 0B
0E55 78 40 0D 5113+ TBN PL$OPC(,PL),OPLSNS POLLING FOR STATUS ? 0B
0E58 F2 10 0D 5114+ JT CMIV60 YES-GO HANDLE, TOP PRIORITY. 0B
0E5B 7D 00 00 0E5B 5115+CMNXPL EQU * GET NEXT PARM LIST
0E5B 7D 00 00 5116+ CLI PLCHN-1(,PL),NOBIT IS CHAIN POINTER NULL
0E5E F2 81 07 5117+ JE CMIV60 JUMP IF NO MORE PARM LISTS
0E61 75 01 01 5118+ L PLCHN(,PL),PL LOAD ADDR OF NEXT PARM LIST
0E64 C0 87 0DCE 5119+ B CMDTII LOOP BACK TO CHECK NEW PL

5121+*****
5122+* HAVE LOOKED AT EVERY PARM LIST IN THE QUEUE *
5123+*****

0E68 5125+CMIV60 EQU *
5127+* DETERMINE IF WE ARE TO DO GETMAIN BY CHECKING STORAGE AREA NEEDED
5128+* AND AVAILABLE WITH GETMAIN
5129+* IF GREATER THAN ZERO - DO THE GETMAIN

0E68 0D 01 15DF 4632 5131+ CLC CMIIND(2),X$0000 IS SIZE GREATER THAN ZERO
0E6E F2 81 19 5132+ JE CMIV80 IF NOT, JUMP

5134+* MUST DO GETMAIN WHICH MUST WORK ELSE HAVE CCP INTERNAL ERROR
5135+* PUT SIZE NEEDED INTO GETMAIN LIST AND THEN GO TO GETMAIN INTERFACE
    
```


0E71 0C 01 15C9 15DF 5137+ MVC GMLIST+GMSIZE(2),CMIIND MOVE SIZE NEEDED TO GETMAIN LIST
0E77 C0 87 0F12 5138+ B CMGMRT BR TO GETMAIN INTERFACE ROUTINE

5140+* SET UP LCBIBA AND LCBIBL FIELDS IN THE LCB

0E7B 8C 01 78 15C7 5142+ MVC LCBIBA(2,DTF),GMLIST+GMADDR MOVE RECORD ADDR TO LCB
0E80 8E 01 78 4637 5143+ ALC LCBIBA(2,DTF),X\$0004 BYPASS FREE LIST
0E85 8C 01 76 15DF 5144+ MVC LCBIBL(2,DTF),CMIIND REQUESTED LENGTH

0E8A C0 87 0000 0E8A 5146+CMIV80 EQU *
5147+CMIVGX B *-* RETURN

```

5149+*****
5150+*   NAME - CMGBUF
5151+*
5152+*   FUNCTION - ADJUST INPUT HOLD BUFFER SIZE AFTER OP END BECAUSE
5153+*           IT IS KNOWN HOW MUCH DATA CAME IN PRIOR TO CALLING
5154+*           THE CHECK ROUTINE TO ACTUALLY CAUSE THE DATA TO BE
5155+*           MOVED.  THE BUFFER GETMAINED ORIGINALLY FOR THE LINE
5156+*           JUST SAVES TPBUFF SPACE SO WE KNOW WE CAN GET SPACE
5157+*           WHEN THE DATA COMES IN (OP END).
5158+*****
    
```

```

0E8E 34 08 0ED6      0E8E 5160+CMGBUF EQU *
                    5161+      ST      CMGBFX+3,ARR          SAVE RETURN ADDRESS

0E92 BD 00 77        5163+      CLI      LCBIBA-1(,DTF),NOBIT      IS THERE A CURRENT INVITE BUF ?
0E95 F2 81 16        5164+      JE       CMGIGM          NO-GO RIGHT TO GETMAIN.

                    5166+*   IF CURRENT BUFFER FOR READ  IS LARGER THAN NEED, THEN FREE THE
                    5167+*   CURRENT BUFFER, AND GET ONLY WHAT IS NEEDED.

0E98 2D 01 15DD 76  5169+      CLC      #BUFND,LCBIBL(2,DTF)      CURRENT LARGER THAN NEEDED ?
0E9D F2 81 33        5170+      JE       CMGBFX          NO-THEN MUST BE EQ, USE CURRENT
0EA0 B5 02 78        5171+      L       LCBIBA(,DTF),XR2      LOAD @ OF CURRENT BUFFER.
0EA3 C0 87 0F55      5172+      B       CMFMRT          GO TO FREEMAIN RTN, FREE CUR'NT

0EA7 35 02 15CD      5174+      L       CMSDTF,DTF          RELOAD DTF REG.
0EAB BC 00 77        5175+      MVI      LCBIBA-1(,DTF),NOBIT      ZERO INVITE BUF ADDR.

0EAE 0D 01 15DD 465F 0EAE 5176+CMGIGM EQU *
                    5177+      CLC      #BUFND(2),#GMS+1      MAX AVAIL TO SATISFY GETMAIN ?
0EB4 F2 84 20        5178+      JH       CMGINO          NO-GO SET UP TO WAIT ON FREEMAN
0EB7 0C 01 15C9 15DD 5179+      MVC      GMLIST+GMSIZE(2),#BUFND      MOVE NEEDED LENGTH TO GM LIST.
0EBD C0 87 0F12      5180+      B       CMGMRT          GO TO GETMAIN RTN.

0EC1 F2 A0 13        5182+      JOL      CMGINO          GETMAIN FAILED, GO WAIT.

0EC4 8C 01 78 15C7  5184+      MVC      LCBIBA(2,DTF),GMLIST+GMADDR ADDR OF GOT BUF IN LCB.
0EC9 8E 01 78 4637  5185+      ALC      LCBIBA(2,DTF),X$0004      BYPASS FREE LIST IN 1ST 4 BYTES
0ECE 8C 01 76 15DD  5186+      MVC      LCBIBL(2,DTF),#BUFND      LENGTH REQUESTED

                    5188+*
                    5189+*   * LENGTH RECEIVED BECAUSE OF
                    5190+*   * ROUND UP IN GETMAIN ROUTINE.
                    5191+*   * IF USED AMOUNT RECVD WE
                    5191+*   * WOULD FREE/GETMAIN AT OP END.

0ED3 C0 87 0000      0ED3 5192+CMGBFX EQU *
                    5193+      B       ##          RETURN

                    5195+*   INDICATE GETMAIN NEEDED FOR THIS LINE.
0ED7 7A 80 0C        0ED7 5196+CMGINO EQU *
                    5197+      SBN      PL$OPM(,PL),OPGETM      SET GETMAIN NEEDED IN PARM LST.
0EDA BA 20 70        5198+      SBN      LCBATR(,DTF),LCBGMN      SET GETMAIN NEEDED FOR LINE.
0EDD 3B 60 473C      5199+      SBF      $CMFM,SKIP+POST      SET OFF WAIT/POST IND.
0EE1 C0 87 0BD7      5200+      B       CMPAII          GO POST USER AS NECESSARY.
    
```

```

5202+*****
5203+*
5204+* NAME--CMSTOR
5205+*
5206+* TITLE--GETMAIN SIZE DETERMINATION
5207+*
5208+* FUNCTION--THIS ROUTINE CALCULATES THE AMOUNT OF MAIN STORAGE
5209+* NEEDED FOR A PARTICULAR TYPE OF TP REQUEST.
5210+*
5211+* OPERATION--
5212+* . ALWAYS ADD FOUR BYTES FOR THE GETMAIN PARM LIST.
5213+* . IF A POLL FOR STATUS OPERATION ADD 20.
5214+* . IF SYSTEM INVITE ONLY ADD #CCMCL, AND MOVE #CCMCL
5215+* INTO PLINL.
5216+* . IF USER INVITE ONLY ADD PLINL.
5217+*
5218+* INPUT--
5219+* XR1--ADDRESS OF THE TP PARAMETER LIST.
5220+* XR2--ADDRESS OF THE DTF FOR THE TP PARAMETER LIST.
5221+*
5222+* OUTPUT--
5223+* XR1--NOT ALTERED
5224+* XR2--NOT ALTERED
5225+* #BUFND--TOTAL AMOUNT OF STORAGE NEED FOR THE TP REQUEST.
5226+*
5227+* EXIT-- TO NSI OF CALLER.
5228+*****
    
```

```

0EE5 34 08 0F11 0EE5 5230+CMSTOR EQU * *
0EE9 0C 01 15DD 4637 5231+ ST CMSTOX+3,ARR SAVE RETURN ADDRESS R
5232+ MVC #BUFND(2),X$0004 ADD 4 FOR GETMN LIST R
5234+* DETERMINE WHETHER IT IS SYSTEM OR USER REQUEST R
0EEF 78 40 0D 5236+ TBN PL$OPC(,PL),OPLSNS AND POLL FOR STATUS ? 7/R0/5B
0EF2 F2 90 09 5237+ JF CMSUSR NO-GO CHECK WHO IS USER. 7/R0/5B
0EF5 0E 01 15DD 15EF 5238+ ALC #BUFND(2),RELSNS USE RECL FOR SENSE OP 7/R0/5B
0EFB F2 87 10 5239+ J CMSTOX GO TO EXIT. 7/R0/5B
0EFE 78 80 02 0EFE 5241+CMSUSR EQU * * 7/R0/5B
0F01 F2 90 05 5242+ TBN PLOPM(,PL),OP$SYS IS IT SYSTEM REQUEST R
5243+ JF CMSTOY JUMP IF USER REQUEST R
5245+* HAVE SYSTEM READ - USE MAX COMMAND LENGTH AS INPUT LENGTH R
0F04 4C 01 07 472C 5247+ MVC PLINL(2,PL),#CCMCL MOVE MAX COMMAND LGTH TO PARM R
0F09 1E 01 15DD 07 0F09 5248+CMSTOY EQU * ADD INPUT LENGTH R
0F0E C0 87 0000 5249+ ALC #BUFND(2),PLINL(,PL) ADD INPUT LENGTH R
5250+CMSTOX B *- * RETURN R
    
```

```
5252+*****  
5253+*  
5254+* NAME: CMGMRT *  
5255+* *  
5256+* FUNCTION: *  
5257+* PROVIDES A GENERALIZED INTERFACE FOR THE COMMUNICATIONS MANAGER*  
5258+* TO PERFORM A GETMAIN FOR HOLD BUFFER SPACE. *  
5259+* IT WILL STORE THE GETMAIN LIST IN THE 1ST FOUR BYTES OF *  
5260+* GETMAINED AREA FOR FUTURE FREEMAIN CALL. *  
5261+* *  
5262+* ENTRY POINT: CMGMRT. *  
5263+* *  
5264+* INPUT: *  
5265+* THE SIZE OF THE HOLD BUFFER NEEDED IS IN FIELD GMSIZE OF THE *  
5266+* GETMAIN PARAMETER LIST GMLIST IN THE COMMUNICATIONS MANAGER *  
5267+* MODULE. *  
5268+* *  
5269+* OUTPUT: *  
5270+* ADDRESS OF THE HOLD BUFFER GOTTEN WILL BE IN FIELD GMADDR OF *  
5271+* THE GETMAIN PARAMETER LIST GMLIST IN THE COMMUNICATIONS *  
5272+* MANAGER MODULE. *  
5273+* *  
5274+* XR2 - ADDRESS OF 1ST BYTE PAST FREEMAIN LIST *  
5275+* CONDITION REGISTER - PRESERVED AS SET BY $CC4GM. THE BINARY *  
5276+* OVERFLOW CONDITION IS SET IF GETMAIN FAILED. *  
5277+* *  
5278+* EXTERNAL REFERENCES: *  
5279+* . GETMAIN SERVICE ROUTINE ENTRY POINT ($CC4GM) *  
5280+* *  
5281+* EXITS, NORMAL: *  
5282+* TO INSTRUCTION FOLLOWING THE INVOKING OF THIS ROUTINE (ARR) *  
5283+* *  
5284+* ATTRIBUTES: *  
5285+* RESIDENT, REUSABLE *  
5286+* *  
5287+*****
```

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE 123
				0F12	5289+	CMGMRT	EQU *				INTERFACE TO THE GETMAIN
0F12	34	08	0F38		5290+		ST CMGMR9+3,ARR				SAVE THE ARR
0F16	34	02	0F34		5291+		ST CMGMR2+3,XR2				SAVE XR2
0F1A	C2	02	15C6		5292+		LA GMLIST,XR2				POINT XR2 AT GETMAIN LIST
0F1E	BC	00	00		5293+		MVI 0(,XR2),NOBIT				NON WAIT REQUEST
0F21	F4	10	00		5295+		SVC 0				SVC TO GETMAIN ROUTINE
0F24	01			0F24	5296+		DC AL1(CCPRIB)				CCP RIB
0F25	03			0F25	5297+		DC AL1(GMRIB)				GETMAIN SUB RIB
0F26	F2	A0	10		5298+		JOL CMGMER				IF GETMAIN FAILED, SET FLAGS
					5300+*		MOVE FREEMAIN LIST INTO 1ST 4 BYTES OF GETMAINED AREA				
0F29	B5	02	01		5302+		L GMADDR(,XR2),XR2				ADDRESS OF GETMAINED AREA
0F2C	8C	03	03 15C9		5303+		MVC GMSIZE(4,XR2),GMLIST+GMSIZE				FREEMAIN LIST TO 1ST 4 BYTES
0F31	C2	02	0000		5304+CMGMR2		LA *-*,XR2				RESTORE XR2
0F35	C0	87	0000		5305+CMGMR9		B *-*				RETURN TO CALLER
					5307+*		INDICATE GETMAIN NEEDED FOR THIS LINE.				
				0F39	5308+CMGMER		EQU *				*
0F39	7A	80	0C		5309+		SBN PL\$OPM(,PL),OPGETM				SET GETMAIN NEEDED IN PARM LST.
0F3C	0E	00	47AB 4633		5310+		ALC CORCNT(1),X\$0001				ADD ONE TO COUNT OF WAITERS
0F42	35	04	15B4		5311+		L GMFAIL,PSR				INDICATE THE GETMAIN BOMBED
0F46	35	02	15CD		5312+		L CMSDTF,DTF				DTF ADDRESS
0F4A	BA	20	70		5313+		SBN LCBATR(,DTF),LCBGMN				SET GETMAIN NEEDED FOR LINE.
0F4D	3B	60	473C		5314+		SBF \$CMFM,SKIP+POST				SET OFF WAIT/POST IND.
0F51	C0	87	0F31		5315+		B CMGMR2				GO RETURN

```

5317+*****
5318+*
5319+* NAME: CMFMRT
5320+*
5321+* FUNCTION:
5322+* PROVIDES A GENERALIZED INTERFACE TO PERFORM A FREEMAIN OF HOLD
5323+* BUFFER SPACE. IT WILL SET A CM FREEMAIN INDICTOER.
5324+*
5325+* ENTRY POINT:
5326+* CMFMRT - MAIN ENTRY POINT - SET CM FREEMAIN INDICATOR.
5327+* CMFMR2 - THIS ENTRY POINT WILL NOT SET THE INTERNAL FREEMAIN
5328+* INDICATION.
5329+*
5330+* INPUT:
5331+* INDEX REGISTER 2 CONTAINS THE ADDRESS OF THE 1ST BYTE BEYOND
5332+* THE GETMAIN/FREEMAIN PARAMETER LIST.
5333+*
5334+* OUTPUT:
5335+* THE HOLD BUFFER IS FREEMAINED
5336+*
5337+* EXTERNAL REFERENCES:
5338+* . FREEMAIN SERVICE ROUTINE ENTRY POINT ($CC4FM)
5339+*
5340+* EXITS, NORMAL:
5341+* TO INSTRUCTION FOLLOWING THE INVOKING OF THIS ROUTINE (ARR)
5342+*
5343+* ATTRIBUTES:
5344+* RESIDENT, REUSABLE
5345+*
5346+*****
    
```

```

0F55 3A 40 4729 0F55 5348+CMFMRT EQU * FREEMAIN INTERFACE ROUTINE
5349+ SBN #CMSWT,#CMFMD SET SWITCH TO INDICATE FREEMAIN
5350+ OCCURRED IN CM
0F59 5351+CMFMR2 EQU * ENTRY POINT WHICH DOES NOT SET
5352+ INTERNAL FREEMAIN INDICATION
0F59 34 08 0F65 5353+ ST CMFMRX+3,ARR SAVE THE ARR

5355+* XR2 POINTS AT GETMAIN/FREEMAIN PARAMETER LIST

0F5D F4 10 00 0F5D 5357+CMFMR5 EQU * . @19
5358+ SVC 0 GO TO FREEMAIN ROUTINE
0F60 01 0F60 5359+ DC AL1(CCPRIB) CCP RIB
0F61 04 0F61 5360+ DC AL1(FMRIB) FREEMAIN SUB RIB

0F62 C0 87 0000 5362+CMFMRX B *-* RETURN
    
```

```

5364+*****
5365+* NAME--$CC4FR *
5366+* *
5367+* FUNCTION : FREE GETMAINED AREAS FOR A SPECIFIC TP REQUEST. *
5368+* ROUTINE USED BY TRANSIENTS AND RESIDENT CM CODE. *
5369+* *
5370+* OPERATION: *
5371+* . IF SYSTEM PUT WAIT, EXIT *
5372+* . IF PLRECA IS NON ZERO, FREE HOLD BUFFER, *
5373+* ZERO PLRECA-1, *
5374+* ZERO LCBIBA-1, IF IT POINTS TO AREA FREED. *
5375+* . IF INVITE,ZERO TUBPL@-1. *
5376+* . IF PUT NO WAIT OR USER INVITE, FREE PARAMETER LIST AREA. *
5377+* *
5378+* INPUT-- *
5379+* XR1 - PARAMETER LIST ADDRESS *
5380+* *
5381+* OUTPUT - *
5382+* XR1,XR2 - UNCHANGED *
5383+* *
5384+* EXTERNAL ROUTINES USED: *
5385+* CMFMRT - FREEMAIN INTERFACE. *
5386+* *
5387+* EXITS: TO NEXT INSTRUCTION FOLLOWING CALL. *
5388+* *
5389+*****
    
```

```

0F66 34 08 0FD4 0F66 5391+$CC4FR EQU *
0F6A 34 02 0FD0 5392+ ST CMFRRT+3,ARR SAVE RETURN ADDRESS
0F6E 78 80 02 5393+ ST CMFRX2+3,XR2 SAVE XR2
0F71 78 02 0C 5394+ TBN PLOPM(,PL),OP$SYS IF SYSTEM
0F74 79 04 0C 5395+ TBN PL$OPM(,PL),OPPUT * PUT
0F77 F2 10 53 5396+ TBF PL$OPM(,PL),OPNOW * WAIT,
0F7A 7D 00 08 5397+ JT CMFRXT YES - NO FREEMAIN, NO GETMAINS
0F7D F2 81 1A 5398+ CLI PLRECA-1(,PL),NOBIT IS PLRECA NON ZERO
5399+ JE CMPLCK GO CHECK ON FREEING PL
    
```

```

5401+*-----*
5402+* FREE HOLD BUFFER IF NOT A SYSTEM PUT WAIT *
5403+*-----*
    
```

```

0F80 75 02 09 5405+ L PLRECA(,PL),XR2 ADDRESS OF HOLD BUFFER.
0F83 C0 87 0F55 5407+ B CMFMRT GO FREE HOLD BUFFER.
0F87 75 02 0B 5409+ L PLTUBA(,PL),XR2 TUB ADDRESS
0F8A B5 02 16 5410+ L TUBDTF(,XR2),DTF DTF ADDRESS
0F8D 9D 01 78 09 5411+ CLC LCBIBA(2,DTF),PLRECA(,PL) IS AREA FREED THE CURRENT BUFF
0F91 F2 01 03 5412+ JNE CMIBOK NO - SKIP ZERO
0F94 BC 00 77 5413+ MVI LCBIBA-1(,DTF),NOBIT ZERO LINE BUFFER ADDRESS
0F97 7C 00 08 0F97 5414+CMIBOK EQU *
0F9A 5415+ MVI PLRECA-1(,PL),NOBIT ZERO HOLD BUFFER ADDRESS.
0F9A 5416+CMPLCK EQU * LOCAL
5417+* -----START-----@15
0F9A 78 02 0C 5418+ TBN PL$OPM(,PL),OPPUT PUT OP JUST COMPLETE AND
0F9D 3D 00 47AB 5419+ CLI CORCNT,NOBIT PARM LISTS WAITING FOR CORE ?
    
```

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE 126
0FA1	F2	91	04		5420+	JC	CMPMPS,FLSOEQ				NO - CONTINUE FREE PROCESSING.
0FA4	3A	80	15B5		5421+	SBN	CMSWIT,CMFMPS				INDICATE P L WAITING FOR CORE.
				0FA8	5422+	CMPMPS	EQU	*			* LOCAL
					5423+*						-----END-----@15
0FA8	F2	10	1F		5424+	TBF	PL\$OPM(,PL),OPNOW				IF WAIT OPERATION ?
0FAB	F2	10	1F		5425+	JT	CMFRXT				DO NOT FREE PARAMETER LIST.
0FAE	F2	10	1F		5426+	TBN	PLOPC(,PL),OPNOW				ORIGINALLY A NO WAIT OP?
0FB1	F2	90	19		5427+	JF	CMFRXT				NO - NO FREE NEEDED
0FB4	F2	90	19		5428+	TBN	PLOPC(,PL),OPINV				INVITE ?
0FB7	F2	90	0C		5429+	JF	CMFRPL				NO - JUST FREE PL
0FBA	F2	90	0C		5430+	L	PLTUBA(,PL),XR2				TUB ADDRESS
0FBD	BC	00	02		5431+	MVI	TUBPL@-1(,XR2),NOBIT				NO LONGER AN OP ENDED INVITE
					5432+*						* OUTSTANDING FOR TUB.
0FC0	F2	10	07		5433+	TBN	PLOPM(,PL),OP\$SYS				IF SYSTEM INVITE - PL IN TUB
0FC3	F2	10	07		5434+	JT	CMFRXT				YES - DONT FREE PL
					5436+*						-----*
					5437+*	PUT-NO-WAIT	OR USER INVITE	---			FREE PARAMETER LIST
					5438+*						-----*
				0FC6	5440+	CMFRPL	EQU	*			* LOCAL
0FC6	D2	02	00		5441+	LA	0(,PL),XR2				ADDR OF PARAMETER LIST
0FC9	C0	87	0F55		5443+	B	CMFMRT				FREE PL AREA
				0FCD	5445+	CMFRXT	EQU	*			* LOCAL
0FCD	C2	02	0000		5446+	CMFRX2	LA	*-*,XR2			RESTORE XR2
0FD1	C0	87	0000		5447+	CMFRRT	B	*-*			RETURN


```

5450+*****
5451+*
5452+* NAME--CMGMPT
5453+*
5454+* TITLE--GETMAIN PUT HOLD BUFFER AND MOVE DATA INTO IT.
5455+*
5456+* FUNCTION :
5457+* GETMAIN FOR :
5458+* USER PUT
5459+* USER PUT NO WAIT
5460+* SYSTEM PUT NO WAIT
5461+*
5462+*****
    
```

0FD5 5464+CMGMPT EQU *

```

0FD5 34 08 1024 5465+ ST CMPTEX+3,ARR SAVE RETURN ADDRESS
0FD9 1C 01 15C9 05 5466+ MVC GMLIST+GMSIZE(2),PLOUTL(,PL) LENGTH OF RECORD AREA
0FDE 0E 01 15C9 4637 5467+ ALC GMLIST+GMSIZE(2),X$0004 ADD 4 FOR FREEMAIN LIST

0FE4 C0 87 0F12 5469+ B CMGMRT GETMAIN HOLD BUFFER
0FE8 F2 A0 36 5470+ JOL CMPTEX IF FAILED, EXIT (FLAGS ARE SET)
    
```

5472+* MOVE USERS RECORD AREA TO HOLD BUFFER

```

0FEB 3C 00 4798 5474+ MVI #CMMVL+MVLTYP,NOBIT ASSUME SYSTEM REQ WITH NO SWAP
0FEF 1C 01 4795 09 5475+ MVC #CMMVL+MVLFRA,PLRECA(2,PL) ASSUME SYS REQ,REC AREA IN PL
0FF4 78 80 02 5476+ TBN PLOPM(,PL),OP$SYS IF SYS REQUEST
0FF7 F2 10 0F 5477+ JT CMMVDT YES- MOVE DATA
0FFA 3C 01 4798 5478+ MVI #CMMVL+MVLTYP,SWAPFR FROM ADDR IS IN USER PGM AREA
0FFE 75 02 0B 5479+ L PLTUBA(,PL),XR2 TUB ADDRESS
1001 B5 02 12 5480+ L TUBTCB(,XR2),XR2 TCB ADDRESS
1004 2C 01 4795 D8 5481+ MVC #CMMVL+MVLFRA,TCBWK(2,XR2) MOVE USERS REC AREA @ INTO FM@
    
```

1009 5483+CMMVDT EQU *

```

1009 4C 01 09 15C7 5484+ MVC PLRECA(2,PL),GMLIST+GMADDR ADDR OF GETMAINED BUFF INTO PL
100E 4E 01 09 4637 5485+ ALC PLRECA(2,PL),X$0004 BYPASS FREEMAIN LIST
1013 1C 01 4793 09 5486+ MVC #CMMVL+MVLTOA,PLRECA(2,PL) HOLD BUFF DATA AREA IS TO @
1018 1C 01 4791 05 5487+ MVC #CMMVL+MVLTOA,PLRECA(2,PL) LGTH OF FROM AREA IS SAME
    
```

101D 5489+CMGMP4 EQU *

```

101D C0 87 1025 5490+ B CMMVRT MOVE INTERFACE ROUTINE
    
```

```

1021 C0 87 0000 5492+CMPTEX B *- * RETURN
    
```

\$CC4#2 \$E092/CMMVRT-MOVE INTERFACE AND TRACE SUBROUTINE

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```

5494+*****
5495+*
5496+* NAME--CMMVRT
5497+*
5498+* TITLE--MOVE INTERFACE ROUTINE
5499+*
5500+* FUNCTION--
5501+* MOVE TO OR FROM AREA IN USERS PROGRAM
5502+*
5503+* CHANGE ACTIVITY--
5504+* @01-INCR/OS0301 CCP TRACE
5505+*
5506+*****
    
```

```

1025 34 08 1041 1025 5508+CMMVRT EQU *
1029 75 02 0B 5509+ ST CMMVEX+3,ARR SAVE RETURN ADDRESS
102C 2C 01 479A 12 5510+ L PLTUBA(,PL),XR2 ADDRESS OF TUB
1031 C2 02 4790 5511+ MVC #CMMVL+MVLTCB,TUBTCB(2,XR2) USERS TCB ADDR FOR ATR S
1035 9C 01 07 05 5512+ LA #CMMVL,XR2 ADDR OF MOVE PARAMETER LIST
5513+ MVC MVLFR(2,XR2),PLEFFL(,PL) LENGTH OF FROM AREA FROM PL
5514+* * FIELD PLOUTL/PLEFFL.

1039 F4 10 00 5516+ SVC 0
103C 01 103C 5517+ DC AL1(CCPRI) SVC TO MOVE ROUTINE
103D 02 103D 5518+ DC AL1(MVRIB)

103E C0 87 0000 5520+CMMVEX B *- * RETURN TO CALLER
    
```

```

1042 34 08 1051 1042 5522+* THIS ROUTINE SKIPS A TRACE ENTRY IF TRACE NOT ACTIVE
1046 0E 01 1051 4635 1042 5523+CMTRCE EQU *
5524+ ST CMTR03,ARR SAVE RETURN ADDRESS
5525+ ALC CMTR03,X$0002(2) POINT TO TRACE ID
1051 5526+CMTR03 EQU *+5 *
5527+ MVC CMTR09(1),# PUT IN TRACE ID
1052 0E 01 1051 4633 5528+ ALC CMTR03(2),X$0001 BUMP ARR TO RETURN ADDRESS
1058 34 01 1066 5529+ ST CMTR05,XR1 SAVE REG 1
105C 35 01 0011 5530+ L NCSYS@,XR1 XR1--> SYS COM
1060 79 B0 0A 5531+ TBF NCDSP1(,XR1),NCTCCP+NCTALL+NCTRCA TRACE ACTIVE ? @01
1066 5532+CMTR05 EQU *+3
1063 C2 01 0000 5533+ LA #,XR1 RESTORE REG 1
1067 F2 10 06 5534+ JT CMTR20 NO RETURN @01
106A F4 10 00 5535+ SVC 0 SUPVSR CALL
106D 01 106D 5536+ DC AL1(CCPRI) CCP RIB
106E 09 106E 5537+ DC AL1(TRRIB) CCP RIB FOR TRACE
106F 00 106F 5538+CMTR09 DC AL1(#) TRACE ID
1070 5539+CMTR20 EQU * *
1070 35 10 1051 5540+ L CMTR03,IAR RETURN
    
```

```

5542+*****
5543+*
5544+* NAME--CMQUE
5545+*
5546+* TITLE--ADD TP REQUEST TO LINE QUEUE
5547+*
5548+* FUNCTION--
5549+* ADD THIS REQUEST TO THE LINE QUEUE
5550+* MUST CHECK TO SEE IF THIS PARAMETER LIST IS TO BE ADDED TO THE
5551+* END OF THE LINE QUEUE OR IS TO BE PUT AT THE TOP OF THE QUEUE
5552+* IE IF RETRY OF PARM LIST IN ERP - IT WILL GO TO TOP OF QUEUE TO
5553+* MAINTAIN THE ORIGINAL ORDER OF THE LINE QUEUE
5554+* XR2 WILL BE USED TO POINT TO THE VARIOUS PARAMETER LISTS IN THE QUE
5555+* POINT XR2 AT LOCATION OF 1ST PARM LIST POINTER
5556+*
5557+* EXIT - IF GETMAINS NECESSARY ARE SUCCESSFUL, TO NSI OF CALLER
5558+* IF NOT, TO CMPAII.
5559+*****
    
```

```

1074 34 08 116F 1074 5561+CMQUE EQU * QUEUE THIS TP REQUEST
1078 3A 08 4630 5562+ ST CMQRET+3,ARR RETURN ADDRESS
107C 35 01 15CB 5563+ SBN $FLGC,#INVPL SET IND-G.M. FROM PL AREA ONLY
1080 79 04 0C 5565+ L CMSPL,PL POINT TO THE TP PARM LIST. B
1083 C0 10 113A 5567+ TBF PL$OPM(,PL),OPNOW WAIT OPERATION
1087 78 80 02 5568+ BT CMQOP YES - SKIP GETMAIN, JUST QUEUE
108A 7D 05 03 5569+ TBN PLOPM(,PL),OP$SYS IF SYSTEM
108D C0 16 113A 5570+ CLI PLOPC(,PL),OPINV * INVITE, PL IN TUB.
1091 0C 01 15C9 1606 5571+ BC CMQOP,TRUAEQ YES - SKIP GETMAINS
1097 79 80 02 5573+ MVC GMLIST+GMSIZE(2),PLGMLN LENGTH OF GM FOR INVITE PL @19
109A 78 05 03 5574+ TBF PLOPM(,PL),OP$SYS IF A USER
109D F2 10 71 5575+ TBN PLOPC(,PL),OPINV * INVITE,
10A0 3B 08 4630 5576+ JT CMPLGT YES - JUST GETMAIN FOR PL
10A4 3A 10 4630 5577+ SBF $FLGC,#INVPL SET OFF INV PL ONLY IND.
10A8 1C 01 15C9 05 5578+ SBN $FLGC,#PUTTP SET IND-G.M.FROM ANYWHERE
    
```

```

5580+*-----*
5581+* PUT NO WAIT OR SYS PNW/INVITE - GETMAIN HOLD BUFFER
5582+*-----*
    
```

```

10AD 0E 01 15C9 4637 5584+ MVC GMLIST+GMSIZE(2),PLOUTL(,PL) PNW DATA LENGTH
10B3 78 80 02 5585+ ALC GMLIST+GMSIZE(2),X$0004 * + 4 = TOTAL GETMAIN AREA
10B6 78 07 03 5586+ TBN PLOPM(,PL),OP$SYS SYSTEM
10B9 F2 90 0C 5587+ TBN PLOPC(,PL),OPPUT+OPINV * PNW/INVITE ?
10C2 F2 04 23 5588+ JF CMPNWP NO-ALSO NEED PNW PARM LIST.
    
```

```

5590+* SYSTEM PUT-NO-WAIT/INVITE
    
```

```

10BC 0D 01 15C9 465F 5592+ CLC GMLIST+GMSIZE(2),#GMS+1 WILL GETMAIN WORK ?
10C5 F2 87 2A 5593+ JNH CMPNWG YES-GO DO.
5594+ J CMPNWS NO-MAKE WAIT OP AND DO IT.
    
```

```

5596+* SYSTEM PUT NO WAIT OR USER PUT NO WAIT
    
```

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE 130
				10C8	5598+	CMPNWP	EQU *	*			
10C8	0E	01	15C9	1604	5599+	ALC	GMLIST+GMSIZE(2),PLGMLG	* + PL LENGTH			
10CE	0D	01	15C9	465F	5600+	CLC	GMLIST+GMSIZE(2),#GMS+1	IS THERE ENOUGH ROOM ?			
10D4	F2	04	11		5601+	JNH	CMPNWG	YES - GO DO GETMAINS			
10D7	78	80	02		5602+	TBN	PLOPM(,PL),OP\$SYS	IF SYSTEM PUT NO WAIT ?			
10DA	F2	10	15		5603+	JT	CMPNWS	YES - MAKE PUT WAIT AND DO IT.			
10DD	35	02	15CD		5604+	L	CMSDTF,DTF	DTF ADDRESS			
10E1	7B	04	0C		5605+	SBF	PL\$OPM(,PL),OPNOW	MAKE WAIT OPERATION			
10E4	C0	87	0665		5606+	B	CMBSOP	GO CHECK REJECT ONLY B			
				10E8	5608+	CMPNWG	EQU *	* LOCAL			
10E8	C0	87	0FD5		5609+	B	CMGMPT	GETMAIN HOLD BUFFER AND MOVE			
					5610+*			* DATA INTO IT.			
10EC	F2	20	09		5611+	JNOL	CMHBOK	IF GETMAIN OK			
					5612+*			(PNW OP WILL NOT FAIL BECAUSE			
					5613+*			OF TEST ABOVE)			
					5614+*		HOLD BUFFER GETMAIN FAILURE				
				10EF	5615+	CMPNWF	EQU *	*			
10EF	7A	40	0C		5616+	SBN	PL\$OPM(,PL),OPGETQ	GETMAIN FAILED AT QUEUE TIME.			
				10F2	5617+	CMPNWS	EQU *	*			
10F2	7B	04	0C		5618+	SBF	PL\$OPM(,PL),OPNOW	MAKE WAIT OP			
10F5	F2	87	42		5619+	J	CMQOP	QUEUE IT TO WAIT FOR FREEMAIN			
				10F8	5621+	CMHBOK	EQU *	* LOCAL			
10F8	78	07	03		5622+	TBN	PLOPC(,PL),OPPUT+OPINV	IF SYS PNW/INV ONLY GET BUFFER			
10FB	F2	10	3C		5623+	JT	CMQOP	YES - GO QUEUE IT			
10FE	78	80	02		5624+	TBN	PLOPM(,PL),OP\$SYS	IF SYSTEM			
1101	78	05	03		5625+	TBN	PLOPC(,PL),OPINV	* INVITE, PL IN TUB.			
1104	F2	10	33		5626+	JT	CMQOP	YES - SKIP GETMAINS			
1107	3A	10	4630		5627+	SBN	\$FLGC,#PUTTP	SET 'GETMAIN FROM ANYWHERE'			
					5629+*						
					5630+*		PUT-NO-WAIT OR USER INVITE - GETMAIN FOR PARAMETER LIST				
					5631+*						
					5633+	MVC	GMLIST+GMSIZE(2),PLGMLG	LENGTH OF GETMAIN FOR PL			
110B	0C	01	15C9	1604							
				1111	5634+	CMPLGT	EQU *	* LOCAL @19			
1111	C0	87	0F12		5635+	B	CMGMRT	GETMAIN FOR PARAMETER LIST			
1115	F2	20	06		5636+	JNOL	CMPTGT	IF GETMAIN OK			
					5637+*			(PNW OP WILL NOT FAIL BECAUSE			
					5638+*			OF TEST ABOVE)			
1118	7A	40	0C		5639+	SBN	PL\$OPM(,PL),OPGETQ	FAILED - MUST QUEUE AFTER FREE			
111B	F2	87	1C		5640+	J	CMQOP	QUEUE IT TO WAIT FOR FREEMAIN			
				111E	5642+	CMPTGT	EQU *	* LOCAL			
111E	35	02	15C7		5643+	L	GMLIST+GMADDR,XR2	ADDRESS OF GETMAINED AREA			
1122	9C	0F	13	0F	5644+	MVC	PLLNG+3(PLLNG,XR2),PLENDS(,PL) MOVE PL TO GETMAIN AREA @19				
1126	79	FF	02		5645+	TBF	PLOPM(,PL),ALLBIT	Q-USER @19			
1129	7D	05	03		5646+	CLI	PLOPC(,PL),OPINVINVITE? @19			
112C	F2	16	04		5647+	JC	CMPTG1,TRUAEQ	YES-DO NOT MOVE ECB @19			
					5649+	MVC	PLLEN+3(3,XR2),PLECB+2(,PL) NO-MOVE IN ECB @19				
112F	9C	02	16	12							
1133	E2	01	04		5650+	CMPTG1	LA 4(,XR2),PL	ADDR OF PL INTO XR1 @19			
1136	34	01	15CB		5651+	ST	CMSPL,PL	SAVE ADDR OF PL WORKING WITH			
					5653+*						

5654+* QUEUE THE REQUEST ON LINE QUEUE *

5655+*-----*

113A 5657+CMQOP EQU *

113A 3B 18 4630 5658+ SBF \$FLGC,#PUTTP+#INVPL SET BOTH IND.S OFF
 113E 35 02 15CD 5659+ L CMSDTF,XR2 RESTORE DTF ADDR TO XR2
 1142 B8 04 70 5660+ TBN LCBATR(,XR2),LCB1PL IS THIS TO BE 1ST PL IN Q
 1145 BB 04 70 5661+ SBF LCBATR(,XR2),LCB1PL SET OFF LCB1PL BIT
 1148 E2 02 65 5663+ LA LCBPLQ-1(,XR2),XR2 POINT XR2 AT PARM LIST ADDR
 114B F2 90 07 5665+ JF CMTQND JUMP IF ADD TO END OF LINE Q

5667+* PUT THIS PARM LIST AT THE TOP OF THE QUEUE

114E 6C 01 01 01 5669+ MVC PLCHN(2,PL),PLCHN(,XR2) CHAIN CURRENT Q OFF THIS PL
 1152 F2 87 0D 5670+ J CMADDQ JUMP TO ADD THIS GUY TO Q

5672+* DETERMINE IF POINTER IS NULL
 5673+* IF NULL STORE ADDR OF THIS PARM LIST IN THAT LOCATION

1155 5675+CMTQND EQU *

1155 BD 00 00 5676+ CLI PLCHN-1(,XR2),NOBIT TEST FOR END OF QUEUE
 1158 F2 81 07 5677+ JE CMADDQ IS PARM LIST POINTER NULL
 JUMP IF NULL TO ADD TO QUEUE

5679+*POINTER NOT NULL - SO TRY NEXT PARM LIST POINTER

5681+*THIS PARM LIST PTS TO ANOTHER PARM LIST IN LINE QUEUE
 5682+* GO DOWN LIST LOOKING FOR END OF QUEUE
 5683+*(HIGH ORDER BYTE OF ADDRESS - X'00')

115B B5 02 01 5685+ L PLCHN(,XR2),XR2 POINT XR2 AT NEXT PARM LIST
 5686+* IN THE LINE QUEUE
 115E C0 87 1155 5687+ B CMTQND BR TO TEST FOR QUEUE END

5689+* FOUND END OF QUEUE SO ADD THIS PARAMETER LIST TO CHAIN HERE

1162 5691+CMADDQ EQU *

1162 B4 01 01 5692+ ST PLCHN(,XR2),PL ADD PARM LIST TO QUEUE
 ADD PARM LIST TO QUEUE

5694+* IF GETMAIN FAILED, LEAVE ON QUEUE UNTIL FREEMAIN DONE
 1165 79 C0 0C 5695+ TBF PL\$OPM(,PL),OPGETM+OPGETQ IF GETMAIN FAILED DO NOT RETURN
 1168 C0 90 0BD7 5696+ BF CMPAII * TO SCHEDULE OPERATION.
 116C C0 87 0000 5697+CMQRET B *-* RETURN

```

5699+*****
5700+*
5701+* NAME: CMDEQ
5702+*
5703+* FUNCTION: DEQUEUE PARAMETER LIST FROM THE LINE QUEUE.
5704+*
5705+* OPERATION: MOVE CHAIN POINTER OF THIS PARAMETER LIST TO THE CHAIN
5706+* POINTER OF PARAMETER LIST PRECEDING THIS ONE IN THE Q.
5707+*
5708+* INPUT: XR1 -> PL, XR2 -> DTF.
5709+*
5710+* OUTPUT: XR1 -> PL, XR2 -> CURRENT DTF.
5711+*
5712+*****
    
```

```

5714+* TAKE THE POINTER FROM THIS PARM LIST AND PLACE IN PTR ADDR OF
5715+* LOCATION THAT POINTED TO THE COMPLETED OPERATION
    
```

1170 34 08 119C	1170	5717+CMDEQ	EQU	*	DEQUEUE THE PARM LIST
1174 E2 02 65		5718+	ST	CMDEQR+3,ARR	SAVE RETURN ADDRESS
		5719+	LA	LCBPLQ-1(,DTF),XR2	LOAD PTR TO FIRST PARM LIST.
	1177	5720+CMDQCK	EQU	*	* LOCAL
1177 8D 01 01 15CB		5721+	CLC	PLCHN(2,XR2),CMSPL	NEXT PARM LIST TO DEQ ?
117C F2 81 0E		5722+	JE	CMDCHN	YES-GO TO DE-CHAIN IT.
117F BD 00 00		5723+	CLI	PLCHN-1(,XR2),X'00'	IS THIS THE END OF CHAIN ?
1182 F2 01 01		5724+	JNE	CMDQOK	NO - THEN CONTINUE
1185 00	1185	5725+	DC	XL1'00'	YES - BAD NEWS - PROC CHECK
	1186	5726+CMDQOK	EQU	*	
1186 B5 02 01		5727+	L	PLCHN(,XR2),XR2	UPDATE TO NEXT PARM LIST.
1189 C0 87 1177		5728+	B	CMDQCK	GO BACK AND CHECK THIS ONE.
		5729+*	MOVE	PTR TO NEXT PARM LIST TO PREVIOUS PARM LIST POINTER	
	118D	5730+CMDCHN	EQU	*	* LOCAL
118D 9C 01 01 01		5731+	MVC	1(2,XR2),PLCHN(,PL)	MOVE POINTER
1191 5C 01 01 0F		5732+	MVC	PLRTC(2,PL),PL\$RTC(,PL)	SET EXTERNAL RETURN CODE NOW
		5733+*			* THAT PLCHN ISNT USED.
1195 35 02 15CD		5734+	L	CMSDTF,DTF	RESTORE DTF ADDR TO XR2.
1199 C0 87 0000		5735+CMDEQR	B	#	RETURN

\$CC4#2 \$E092/CMSRPL--- SEARCH PARAMETER LIST CHAIN FOR LINE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE 133
			5737+	*****			
			5738+	*			
			5739+	NAME--CMSRPL			
			5740+	*			
			5741+	TITLE--SEARCH PARAMETER LIST CHAIN FOR LINE FOR PL TO SCHEDULE			
			5742+	*			
			5743+	FUNCTION--			
			5744+	LOOK FOR NON-READ IF ANY TO EXECUTE NOW			
			5745+	ELSE SEARCH THE QUEUE FOR A READ AND START ALL READS FOR WHICH			
			5746+	THE NECESSARY HOLD BUFFER SPACE CAN BE OBTAINED			
			5747+	ASSURE NO OP SCHEDULED TO TERMINAL IN ERROR RECOVERY			
			5748+	*			
			5749+	OUTPUT - XR1 WILL POINT TO PARAMETER LIST TO SCHEDULE			
			5750+	XR2 WILL POINT TO THE TUB.			
			5751+	*****			
		119D	5753+	CMSRPL EQU *			
119D	34 08 124A		5754+	ST CMSRRT+3,ARR			
11A1	B8 80 00		5755+	TBN \$BDDEV(,DTF),BSCA BSC DTF ?			
11A4	F2 90 03		5756+	JF CMSRP1 NO-DON'T SET TIMER IND. OFF			
11A7	BB 01 70		5757+	SBF LCBATR(,DTF),LCBTIM SET TIMER IND. OFF			
		11AA	5758+	CMSRP1 EQU *			
11AA	BD 00 65		5759+	CLI LCBPLQ-1(,XR2),NOBIT IS QUEUE EMPTY B			
11AD	F2 01 19		5760+	JNE CMSRP2 NO - CHECK THE QUEUE. B			
			5761+	-----START-----@07			
11B0	B5 01 30		5762+	L \$BDWKA(,DTF),XR1 XR1 --> BSCA WORK AREA. B			
11B3	B8 80 00		5763+	TBN \$BDDEV(,DTF),BSCA BSC DTF AND B			
11B6	78 01 59		5764+	TBN \$BWKMC(,XR1),X'01' IS DISPLAY ADAPTER RUNNING ? B			
11B9	F2 90 09		5765+	JF CMSRP3 NO - DON'T CANCEL 2 SEC. T.O. B			
11BC	B9 18 55		5766+	TBF LCBAT1(,DTF),LCBNTQ+LCBINT PARM LIST REMOVED FROM QUEUE ?B			
11BF	F2 90 03		5767+	JF CMSRP3 YES - DON'T CANCEL T.O. B			
11C2	F38802	11C4	5768+	DC XL3'F38802' SIO TO CANCEL 2 SEC. T.O. B			
		11C5	5769+	CMSRP3 EQU * * LOCAL B			
			5770+	-----END-----@07			
11C5	C0 87 0BD7		5771+	B CMPAII GO TO CHECK OP END COUNT. B			
		11C9	5772+	CMSRP2 EQU * * LOCAL			
			5774+	*****			
			5775+	REQUEST IN QUEUE FOR THE LINE READY TO GO			
			5776+	*****			
11C9	B5 01 66		5778+	L LCBPLQ(,XR2),PL POINT XR1 AT 1ST PARM LIST IN Q			
		11CC	5779+	CMRDCK EQU *			
11CC	75 02 0B		5780+	L PLTUBA(,PL),XR2 POINT XR2 AT THE TUB			
			5782+	IF OPERATION IS REFRESH OF SCREEN, THE SET TEMP OP CODE FOR PUT. 0B			
11CF	78 04 02		5784+	TBN PLOPM(,PL),OPSTOP STOP INVITE AND - B			
11D2	B8 80 09		5785+	TBN TUBSCS(,XR2),TUBCLR * CLEAR KEY DEPRESSED ? B			
11D5	F2 90 11		5786+	JF CMRXE1 NO-CONTINUE B			
			5788+	PUT CLEAR RETURN CODE INTO PARM LIST AND GO DE-QUEUE IT B			
11D8	7C 07 0F		5790+	MVI PL\$RTC(,PL),RCXCLR INT. RETURN CODE = CLEAR B			
11DB	BB 80 09		5791+	SBF TUBSCS(,XR2),TUBCLR SET OFF CLEAR IND. B			
11DE	34 01 15CB		5792+	ST CMSPL,PL SAVE PL ADDRESS B			

\$CC4#2 \$E092/CMSRPL--- SEARCH PARAMETER LIST CHAIN FOR LINE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 134
11E2	B5 02 16		5793+	L	TUBDTF(,XR2),XR2	XR2--> DTF		B
11E5	C0 87 05A4		5794+	B	CMRETC	GO DE-Q AND POST		B
		11E9	5795+	CMRXE1	EQU *	*		B
11E9	78 80 0D		5797+	TBN	PL\$OPC(,PL),OPRFSH	REFRESH OPERATION REQUESTED ?		0B
11EC	F2 90 08		5798+	JF	CMRXER	NO-GO TEST FOR TERM IN ERP.		0B
11EF	48 03 0C 15D6		5799+	MNN	PL\$OPM(,PL),CCPUT	ALTER OP CODE TO A PUT.		0B
11F4	F2 87 49		5800+	J	CMSCHO	GO HANDLE NOW		0B
		11F7	5801+	CMRXER	EQU *	*		0B
			5803+*	IF POLL	FOR STATUS OPERATION , HANDLE AS HIGHEST PRIORITY.			0B
11F7	78 40 0D		5805+	TBN	PL\$OPC(,PL),OPLSNS	POLLING FOR STATUS ?		0B
11FA	F2 10 33		5806+	JT	CMTSRS	YES-GO HANDLE STATUS POLL.		0B
		11FD	5808+	CMRXPT	EQU *	*		0B
11FD	75 02 0B		5809+	L	PLTUBA(,PL),XR2	POINT TO TUB		@19
1200	79 80 0C		5810+	TBF	PL\$OPM(,PL),OPGETM	GETMAIN NOT FAILED		
1203	78 02 0C		5811+	TBN	PL\$OPM(,PL),OPPUT	IS IT PUT		
1206	B9 10 0D		5812+	TBF	TUBAT3(,XR2),TUBERP	ASSURE NOT IN ERROR RECOVERY		
1209	F2 90 17		5813+	JF	CMNXTP	NO- CHECK NEXT ONE		
120C	7D 00 08		5814+	CLI	PLRECA-1(,PL),NOBIT	IF BUFFER IS ALREADY GETMAINED		
120F	F2 01 08		5815+	JNE	CMBFOK	YES - SKIP GETMAIN		
			5816+*			* SKIPPED FOR PUT NO WAIT,		
			5817+*			* MLTA PUT-NOT FIRST TIME THRU,		
			5818+*			* DFF PUT WAIT(ALREADY DONE)OR		
			5819+*			* SYS PUT WAIT (NONE NEEDED).		
			5821+*	NON-DFF	USER PUT WAIT - GETMAIN BUFFER FOR ADDRESSABILITY			
1212	3A 10 4630		5823+	SBN	\$FLGC,#PUTTP	INDICATE 'GETMAIN FOR PUT' REQ.		
1216	C0 87 0FD5		5824+	B	CMGMPT	GETMAIN HOLD BUFFER AND MOVE		
			5825+*			* DATA INTO IT.		
		121A	5827+	CMBFOK	EQU *	* LOCAL		
121A	78 80 0C		5828+	TBN	PL\$OPM(,PL),OPGETM	IF WAITING FOR GETMAIN		
121D	F2 10 03		5829+	JT	CMNXTP	YES - GET NEXT PL IN QUEUE		
1220	F2 87 1D		5830+	J	CMSCHO	NO - RETURN IT TO BE SCHEDULED		
		1223	5832+	CMNXTP	EQU *	CHECK NEXT PARM LIST		
1223	7D 00 00		5833+	CLI	PLCHN-1(,PL),NOBIT	ANY MORE PARM LISTS IN QUEUE		
1226	F2 81 07		5834+	JE	CMTSRS	NO-GO TRY TO SCHEDULE READ.		
			5836+*	MORE	REQUESTS IN QUEUE-CHECK THAM FOR NON-READ			
1229	75 01 01		5838+	L	PLCHN(,PL),PL	PT XR1 AT NEXT PARM LIST		
122C	C0 87 11CC		5839+	B	CMRDCK	BR TO CHECK FOR NON READ		
			5841+*	ALL	READS IN THE QUEUE SO DO ANALYSIS IN TERMS OF ELIGIBILITY			
			5842+*	BECAUSE	RECORD AREA OR HOLD BUFFER IS AVAILABLE			
			5843+*	MAY	HAVE NON-READS IN QUEUE BUT THEY WILL BE TO TERMINALS IN ERROR			
			5844+*	RECOVERY				
		1230	5846+	CMTSRS	EQU *	TEST READ ELIGIBILITY		
1230	C0 87 0D8F		5847+	B	CMIVGM	BRANCH TO DO READ GETMAIN ANALYS		

\$CC4#2 \$E092/CMSRPL--- SEARCH PARAMETER LIST CHAIN FOR LINE

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 135
1234	38 40 15B5		5849+	TBN	CMSWIT,CMRSLN			
1238	C0 90 0BD7		5850+	BF	CMPAII			IS RESCHEDULE SWITCH ON NO- CANNOT RESCHEDULE NOW.
123C	35 01 15D5		5852+	L	CMLPL,PL			
			5853+*					LAST READ PL SCHEDULED - WILL * GO INTO TRACE FROM CMSPL
		1240	5854+CMSCHO	EQU	*			SCHEDULE THE PARM LIST REQUEST
1240	34 01 15CB		5855+	ST	CMSPL,PL			SAVE PARM LIST ADDR
1244	75 02 0B		5856+	L	PLTUBA(,PL),XR2			POINT XR2 AT THE TUB
1247	C0 87 0000		5857+CMSRRT	B	*-*			RETURN

```

5859+*****
5860+*
5861+*TITLE: $$BMCH - TELEPROCESSING MULTIPLE WAIT.
5862+*
5863+*FUNCTION: THE FUNCTION OF THIS WAIT ROUTINE IS TO SCAN A LIST OF DTF'S*
5864+* AND, IF NECESSARY, PASS CONTROL AND THE DTF TO THE APPROPRIATE
5865+* DEVICE WAIT ROUTINE (BSCA, OR MLTA). THE USER IS THEN NOTIFIED
5866+* OF A COMPLETION VIA THE APPROPRIATE DTF.
5867+*
5868+*INPUT: INPUT TO THE ROUTINE IS THE WAIT LIST OF DTF'S.
5869+*
5870+*OUTPUT: OUTPUT FROM THE ROUTINE WILL BE REGISTER 2 POINTING AT THE
5871+* COMPLETED DTF, WHICH CONTAINS THE COMPLETION CODE. ON RETURN WITH*
5872+* NO COMPLETIONS OR NO ACTIVE DTF'S, XR2 WILL POINT TO THE LAST DTF *
5873+* IN THE LIST, ALSO WITH THE APPROPRIATE COMPLETION CODE.
5874+*
5875+*EXTERNAL ROUTINES:
5876+* MSBSCH - BSCA PROGRAM WAIT ROUTINE. (ADDR STORED AT CHBMBS BY *
5877+* MLMP).
5878+* $MLCK0 - MLTA CHECK ROUTINE. (ADDR STORED AT CHBMML BY MLTA) *
5879+*
5880+*****
    
```

```

124B 5882+$$BMCH EQU * ENTRY POINT NAME FOR MLMP/MLTA
124B 5883+CMBMCH EQU * INTERNAL CM ENTRY POINT.
124B 34 08 12A6 5884+ ST CHSTOR,ARR SAVE RETURN @
124F 3C 87 129A 5885+ MVI CHACTV,UNCOND INITIALIZE SWITCH TO FALL THRU
1253 35 01 4738 5886+ L @CKLST,LISTRG POINT REGISTER AT WAIT LIST
1257 75 02 02 1257 5887+CHSTRT EQU *
1257 75 02 02 5888+ L DTFADR(,LISTRG),DTF POINT REG 2 TO DTF
125A 78 08 00 5889+ TBN CHLSTS(,LISTRG),OPGONE COMPL. CODE DESTROYED ?
125D F2 90 03 5890+ JF CHNODS NO - DONT RESTORE IT
1260 BC 00 0E 5891+ MVI DTFCMP(,DTF),OPACC RESTORE COMPLETION CODE
1263 78 80 00 1263 5892+CHNODS EQU *
1263 78 80 00 5893+ TBN CHLSTS(,LISTRG),CHLSKP IS ENTRY TO BE SKIPPED ?
1266 F2 10 21 5894+ JT CHSTND YES - GO TEST FOR END
1269 B8 03 03 5895+ TBN DTFATR(,DTF),FILOPN+FILEAC THIS FILE OPEN AND ACTIVE ?
126C F2 90 1B 5896+ JF CHSTND NO - GO CHECK FOR END
    
```

```

5898+***** B
5899+* PROCESS BSCA DTF * B
5900+***** B
    
```

```

126F 3D 00 1282 126F 5902+CHBSCA EQU * * LOCAL B
1273 F2 81 14 5903+ CLI CHCKBS,NOBSCA IS BSCA IN THE PROGRAM? B
1276 BD 00 0E 5904+ JE CHSTND BRANCH IF NOT B
1279 F2 01 0E 5905+ CLI DTFCMP(,DTF),OPACC BSCA OPERATION PENDING ? B
127C 3C 80 129A 5906+ JNE CHSTND NO - TEST FOR END OF LIST B
1280 C0 87 0000 5907+ MVI CHACTV,NOOP SET ACTIVE DTF FOUND B
1284 BD 00 0E 1282 5908+CHCKBS EQU *+2 * B
1287 F2 01 16 5909+ B *- * GO TO BSCA WAIT ROUTINE B
1287 F2 01 16 1283 5910+CHBMBS EQU *-1 ADDRESS OF MLMP WAIT(IOCS SETS) B
1284 BD 00 0E 5911+ CLI DTFCMP(,DTF),OPACC COMPLETION POSTED ? B
1287 F2 01 16 5912+ JNE CHPNTR NO - BRANCH B
    
```

5914+*****
5915+* CHECK FOR END OF WAIT LIST *
5916+*****

128A 5918+CHSTND EQU *

5920+*****
5921+* PROCESS END OF LIST CONDITIONS *
5922+*****

	128A	5924+CHEND	EQU	*	*
128A 75 02 02		5925+	L	DTFADR(,LISTRG),DTF	POINT XR2 TO DTF
128D BD 00 0E		5926+	CLI	DTFCMP(,DTF),OPACC	IS CODE OP ACCEPTED ?
1290 F2 01 03		5927+	JNE	CHNOOP	NO - BRANCH
1293 7A 08 00		5928+	SBN	CHLSTS(,LISTRG),OPGONE	SET BIT FOR DESTROYED CODE
	1296	5929+CHNOOP	EQU	*	*
1296 BC 57 0E		5930+	MVI	DTFCMP(,DTF),INACTV	SET COMPLETION TO NO ACT DTF'S
		5931+**	THE	FOLLOWING BRANCH IS SET TO NOOP	IF AN ACTIVE DTF IS FOUND **
	129A	5932+CHACTV	EQU	*+1	ACTIVE DTF SWITCH
1299 C0 87 12A0		5933+	BC	CHPNTR,UNCOND	BRANCH IF NO ACTIVE DTF'S
129D BC 56 0E		5934+	MVI	DTFCMP(,DTF),NOCOMP	SET NO COMPLETION RETURN CODE

5936+*****
5937+* RESTORE POINTERS AND EXIT *
5938+*****

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR
12A0 75 02 02		12A0	5940+CHPNTR	EQU	*	*
			5941+	L	DTFADR(,LISTRG),DTF	POINT REGISTER TO DTF
12A3 C0 87 0000		12A6	5942+CHSTOR	EQU	*+3	RETURN ADDRESS PLUGGED HERE
			5943+	B	#	RETURN

```

5945+*****
5946+* NAME -- CMERPC *
5947+* *
5948+* TITLE - CHECK FOR PUT TO TERMINAL IN ERP AND HANDLE IT. *
5949+* *
5950+* OPERATION - *
5951+* CHECK FOR ERP. *
5952+* IF TERMINAL IN ERP GOTO TRANSIENT $CC4MP. *
5953+* ON RETURN , CHECK FOR PUT THEN GET. *
5954+* IF ONLY PUT - IGNORE IT AND GO POST REQUESTER. *
5955+* IF PUT THEN GET - RETURN TO ALLOW SCHEDULING OF GET. *
5956+* *
5957+* INPUT : XR1 - PL ADDRESS *
5958+* *
5959+* OUTPUT : XR1 - PL, XR2 - TUB. *
5960+* *
5961+* EXITS : IF PUT ONLY TO TERMINAL IN ERP - CMPAII *
5962+* IF TERMINAL NOT IN ERP OR NOT PUT ONLY - RETURN *
5963+*****
    
```

12A7 5965+CMERPC EQU * *

```

12A7 34 08 12C6 5966+ ST CMERPR+3,ARR SAVE RETURN ADDRESS
12AB 75 02 0B 5967+ L PLTUBA(,PL),XR2 TUB ADDRESS
12AE B8 10 0D 5968+ TBN TUBAT3(,XR2),TUBERP IS TUB IN CCP ERP
12B1 78 02 03 5969+ TBN PLOPC(,PL),OPPUT DOES OP INVOLVE PUT
12B4 79 04 02 5970+ TBF PLOPM(,PL),OPSTOP TEST FOR NOT PURGE OPERATION
12B7 F2 90 09 5971+ JF CMERPR JUMP IF PUT WILL NOT BE IGNORED
    
```

```

5973+*****
5974+* IGNORE PUT OPERATION BECAUSE TERMINAL IN ERROR RECOVERY
5975+*****
    
```

```

12BA F4 10 00 5977+ SVC 0 ##### TRANSIENT CALL #####
12BD 01 12BD 5978+ DC AL1(CCPRIB) CCP SVC RIB
12BE 27 12BE 5979+ DC AL1(CC4MP) IGNORE PUT TRANSIENT
5980+* RETURNS TO ARR IF PUT ONLY
5981+* TO ARR+4,IF PUT THEN INVITE
    
```

```

12BF C0 87 0BD7 5983+ B CMPAII BRANCH TO PERFORM POST CHECK
5984+* IF THE OPERATION INVOLVED A READ - THE TRANSIENT WILL RETURN
5985+* HERE -- CONTINUE TO DROP THROUGH AND SCHEDULE THE READ.
    
```

```

12C3 C0 87 0000 5987+CMERPR B *-* RETURN
5988 * $E093
5989+* R-03,C-00 CHANGE LEVEL
    
```

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 140
			5991+	*****				C/SB
			5992+	*				C/SB
			5993+	*	NAME--CMBSKP			C/SB
			5994+	*				C/SB
			5995+	*	TITLE--BSCA POLL SKIP BIT ROUTINE			C/SB
			5996+	*				C/SB
			5997+	*	FUNCTION--SET THE SKIP ENTRY INDICATOR ON/OFF IN THE BSCA			C/SB
			5998+	*	POLLING LIST OR THE BSCA SWITCHED LINE ID			C/SB
			5999+	*	VERIFICATION LIST.			C/SB
			6000+	*				C/SB
			6001+	*	OPERATION--			C/SB
			6002+	*	. IF THIS DTF OR THIS PARTICULAR OPERATION DOES			C/SB
			6003+	*	NOT INVOLVE ONE OF THE BSCA LIST THEN RETURN			C/SB
			6004+	*	WITHOUT SETTING SKIP BIT.			C/SB
			6005+	*	. OTHERWISE, FIND THE ENTRY IN THE APPROP LIST.			C/SB
			6006+	*	. SET THE SKIP BIT AS SPECIFIED FOR ALL ENTRIES			C/SB
			6007+	*	FOR THE SAME TERMINAL.			C/SB
			6008+	*				C/SB
			6009+	*	ENTRY POINTS--CMBSKP-ALL FUNCTIONS ABOVE.			C/SB
			6010+	*				C/SB
			6011+	*	INPUT--			C/SB
			6012+	*	XR1--ADDRESS OF THE TP PARAMETER LIST.			C/SB
			6013+	*	XR2--SAVED AD RESTORED.			C/SB
			6014+	*	CMB#SB--SBN2(X'7A') SET THE SKIP BIT ON, OR			C/SB
			6015+	*	SBF2(X'7B') SET THE SKIP BIT OFF.			C/SB
			6016+	*	TUBSID--ID OF THE ENTRY(S) TO PERFORM THE OPERATION			C/SB
			6017+	*	FOR.			C/SB
			6018+	*	OUTPUT--			C/SB
			6019+	*	XR1-ADDRESS OF THE TP PARAMETER LIST.			C/SB
			6020+	*	XR2-RESTORED TO ENTRY VALUE.			C/SB
			6021+	*	POLLING/SWITCHED ID LIST-SKIP BIT FOR APPROPRIATE			C/SB
			6022+	*	ID SET AS SPECIFIED.			C/SB
			6023+	*				C/SB
			6024+	*	EXIT, NORMAL--TO NSI OF CALLER.			C/SB
			6025+	*				C/SB
			6026+	*	*****			C/SB
		12C7	6028+	CMBSKP EQU	*	*		C/SB
12C7	34 08 130A		6030+	ST	CMBXIT+3,ARR	SAVE THE ARR		C/SB
12CB	34 01 1302		6031+	ST	CMON1B+3,PL	SAVE XR1		C/SB
12CF	34 02 1306		6032+	ST	CMBXR2+3,XR2	SAVE XR2		C/SB
12D3	75 01 0B		6033+	L	PLTUBA(,PL),TUB	POINT XR1 AT TUB		C/SB
12D6	75 02 16		6034+	L	TUBDTF(,TUB),DTF	POINT XR2 AT DTF		C/SB
12D9	9C 00 50 08		6035+	MVC	LCBID#(1,DTF),TUBSID(,TUB)	MOVE POLL LIST ID TO SAVE.		C/SB
12DD	B5 01 4D		6036+	L	LCBPOL(,DTF),POL	LOAD PTR TO POLLING LIST		C/SB
		12E0	6037+	CMOCHK EQU	*	*		C/SB
12E0	7D F0 00		6038+	CLI	POLID(,POL),POLEND	END OF LIST ?		C/SB
12E3	F2 02 19		6039+	JNL	CMOEXT	YES-GO EXIT.		C/SB
12E6	1C 00 12F1 01		6040+	MVC	CMOSTS+2,POLCNT(1,POL)	SET UP LA TO STATUS BYTE		C/SB
12EB	6D 00 00 50		6041+	CLC	POLID(1,POL),LCBID#(,DTF)	THIS ENTRY SAME AS REQ D?		C/SB
12EF	D2 01 00		6042+	CMOSTS LA	#(,POL),POL	UP PTR TO STATUS BYTE		C/SB
12F2	F2 01 03		6043+	JNE	CMONXT	NO-IGNORE IT, GOTO NXT ENT.		C/SB
		12F5	6044+	CMB#SB EQU	*	*		C/SB
12F5	7A 80 02		6045+	SBN	POLCNT+1(,POL),POLSKP	SET POLL SKIP BIT ON / OFF.		C/SB
		12F8	6046+	CMONXT EQU	*	*		C/SB

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 141
12F8	D2 01 03		6047+	LA	POLNXT(,POL),POL			UP PTR TO NEXT POLL LIST ENTC/SB
12FB	C0 87 12E0		6048+	B	CMOCHK			GO CHECK THIS NEXT ENTRY. C/SB
		12FF	6050+	CMOEXT EQU	*			C/SB
		12FF	6051+	CMON1B EQU	*			C/SB
12FF	C2 01 0000		6052+	LA	*-*,PL			RESTORE PARM LIST REG. C/SB
		1303	6053+	CMBXR2 EQU	*			C/SB
1303	C2 02 0000		6054+	LA	#,XR2			RELOAD CALLER'S XR2. C/SB
		1307	6055+	CMBXIT EQU	*			C/SB
1307	C0 87 0000		6056+	B	#			RETURN TO CALLER. C/SB

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 142
			6058+	*****				C/SB
			6059+	*				C/SB
			6060+	ENTRY POINT-	CMASCH - ADDRESS LIST SEARCH			C/SB
			6061+	CMPSCH -	POLL LIST SEARCH			C/SB
			6062+	*				C/SB
			6063+	FUNCTION :	GIVEN ID ENTRY BYTE IN DTF SAVE AREA, FIND THE			C/SB
			6064+		CORRESPONDING ENTRY IN THE POLL LIST AND RETURN A			C/SB
			6065+		POINTER TO THE PHYSICAL TERMINAL ADDRESS.			C/SB
			6066+	*				C/SB
			6067+	INPUT: XR1->	DON'T CARE, XR2-> DTF.			C/SB
			6068+	*				C/SB
			6069+	OUTPUT: XR1->	POLL LIST ENTRY, XR2-> DTF.			C/SB
			6070+	*				C/SB
			6071+	EXITS-NORMAL:	TO NSI OF CALLER.			C/SB
			6072+	-ERROR:	CMASCH/CMPSCH WILL RETURN TO NSI+3 IF THE			C/SB
			6073+		ENTRY IS NOT FOUND.			C/SB
			6074+	*				C/SB
			6075+	*****				C/SB
		130B	6077+	CMASCH EQU	*	ADDRESS LIST ENTRY POINT.		C/SB
130B	B5 01 4F		6078+	L	LCBSEL(,DTF),POL	LOAD ADDR LIST REGISTER.		C/SB
130E	F2 87 03		6079+	J	CMPNXT	GO ENTER MAINLINE CODE.		C/SB
		1311	6081+	CMPSCH EQU	*	FIRST LEVEL SUBROUTINE.		C/SB
1311	B5 01 4D		6082+	L	LCBPOL(,DTF),POL	LOAD POLL LIST REGISTER.		C/SB
		1314	6083+	CMPNXT EQU	*	*		C/SB
1314	B4 08 54		6084+	ST	LCBWRK(,DTF),ARR	SAVE RETURN NSI.		C/SB
		1317	6085+	CMPCHK EQU	*	*		C/SB
1317	6D 00 00 50		6086+	CLC	POLID(1,POL),LCBID#(,DTF)	THIS WANTED TERMINAL ENTRY?		C/SB
131B	F2 81 0F		6087+	JE	CMPFND	YES-GO SET UP RETURN REG.		C/SB
131E	1C 00 1325 01		6088+	MVC	CMPLA+2,POLCNT(1,POL)	USE COUNT TO GET NEXT ENTRY		C/SB
		1323	6089+	CMPLA EQU	*	*		C/SB
1323	D2 01 00		6090+	LA	#(,POL),POL	UP REG PAST PHYSICAL ADDR		C/SB
1326	D2 01 03		6091+	LA	POLNXT(,POL),POL	UP REG PAST ID/COUNT/STATUS		C/SB
1329	C0 87 1317		6092+	B	CMPCHK	GO TO CHECK NEXT ENTRY.		CB
		132D	6094+	CMPFND EQU	*	*		C/SB
132D	B5 10 54		6095+	L	LCBWRK(,DTF),IAR	RETURN TO CALLER.		C/SB

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE STATEMENT	SCP GENERATOR	08/08/10	PAGE 143
			6097+	*****			RB
			6098+	*			RB
			6099+	NAME--CMBTAS			RB
			6100+	*			RB
			6101+	TITLE--BSCA SET DTF AND IOB FROM TAS			RB
			6102+	*			RB
			6103+	FUNCTION--SET DTF AND IOB ATTRIBUTES AND OWNERSHIP STATUS.			RB
			6104+	*			RB
			6105+	ENTRY REGS: XR2=DTF			RB
			6106+	EXIT REGS: XR1=TUB, XR2=DTF.			RB
			6107+	*			RB
			6108+	*****			RB
		1330	6110+	CMBTAS EQU *	*		RB
1330	34 08 13E7		6111+	ST CMBTXT+3,ARR	SAVE RETURN @.		RB
			6112+	-----	START -----	@17	
1334	0C 00 135B 15D8		6113+	MVC CMBTS1+1(1),SAVTA2	MOVE IN TAS ATTR 2.		RB
133A	B5 01 52		6114+	L LCBPL@(,DTF),PL	LOAD PARM LIST REG.		RB
133D	78 01 0D		6115+	TBN PL\$OPC(,PL),OPGET	GET OPERATION IN PROCESS ?		RB
1340	F2 90 0A		6116+	JF CMBTST	NO-HANDLE ITB / TRANSPARENCY		RB
1343	BB 20 02		6117+	SBF \$BDATT(,DTF),\$BCITB	SET OFF ITB INDICATOR.		RB
1346	3B EF 135B		6118+	SBF CMBTS1+1,ALLBIT-TASITB	LEAVE ITB INDICATOR SET.		RB
134A	F2 87 07		6119+	J CMBTTT	GO TO SET ITB OPERATION.		RB
		134D	6120+	CMBTST EQU *	* LOCAL		RB
134D	BB 30 02		6121+	SBF \$BDATT(,DTF),\$BCRAN+\$BCITB	SET OF CURRENT TRANSP AND ITBRB		RB
1350	3B E7 135B		6122+	SBF CMBTS1+1,ALLBIT-TASITB-TASTSP	LEAVE TRANSP AND ITB SET		RB
		1354	6123+	CMBTTT EQU *	* LOCAL		RB
			6124+	-----	END -----	@17	
1354	0E 00 135B 135B		6125+	ALC CMBTS1+1(1),CMBTS1+1	CORRECT TO DTF BIT DEFINITION.		RB
		135A	6126+	CMBTS1 EQU *	*		RB
135A	BA 00 02		6127+	SBN \$BDATT(,DTF),#	SET TAS TRANSP AND ITB		RB
135D	88 03 34 15D8		6128+	MNN \$BDAT1(,DTF),SAVTA2	MOVE IN SPAN AND RECSEP IND'S.		RB
1362	BB BC 34		6129+	SBF \$BDAT1(,DTF),ALLBIT-\$BCSEP-\$BCSPN-\$BCPLR	SET OTHERS OFF.		RB
1365	B5 01 52		6130+	L LCBPL@(,DTF),PL	LOAD PARM LIST REG.		RB
1368	78 20 0D		6131+	TBN PL\$OPC(,PL),OPUSER	SYSTEM FUNCTION ?		RB
136B	75 01 0B		6132+	L PLTUBA(,PL),TUB	LOAD REG TO POINT TO TUB.		RB
136E	F2 10 18		6133+	JT CMBSYS	YES-GO SET SYSTEM BLOCK LEN.		RB
			6135+	DETERMINE THE BLOCK LENGTH GIVEN THE TAS RECORD LENGTH AND			RB
			6136+	BLOCKING FACTOR.			RB
1371	9C 01 64 21		6138+	MVC LCBKLC(2,DTF),TUBRCL(,TUB)	MOVE IN CURRENT RECORD LGTH.		RB
1375	9C 00 5C 22		6139+	MVC LCBOWN(1,DTF),TUBBK(,TUB)	PUT BLOCK FACTOR IN WRK AREA.		RB
		1379	6140+	CMBLAD EQU *	*		RB
1379	8F 00 5C 4633		6141+	SLC LCBOWN(1,DTF),X\$0001	DECREMENT BLOCKING FACTOR. 0 ?		RB
137E	F2 81 0D		6142+	JE CMBOWN	YES-GO SET OWNERSHIP STATUS.		RB
1381	9E 01 64 21		6143+	ALC LCBKLC(2,DTF),TUBRCL(,TUB)	ADD ANOTHER RECORD LENGTH.		RB
1385	C0 87 1379		6144+	B CMBLAD	GO TO CHECK FOR MORE RECORDS.		RB
		1389	6146+	CMBSYS EQU *	SET SYSTEM BLOCK LENGTH.		RB
1389	8C 01 64 472C		6147+	MVC LCBKLC(2,DTF),#CCMCL	MOVE IN MAX COMMAND LENGTH.		RB
			6149+	SET OWNERSHIP STATUS IN THE TUB AND THE LCB.			RB
		138E	6151+	CMBOWN EQU *	SET OWNERSHIP.		RB
			6152+	DON'T SET TUB OWNERSHIP IF ERROR COMP CODE			

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	144
138E	B5	01	23		6154+	L	\$BDIOB(,DTF),XR1					
1391	7D	42	07		6155+	CLI	IOBCMP(,XR1),\$BCEOT					
1394	79	80	07		6156+	TBF	IOBCMP(,XR1),BIT0					
1397	B8	20	56		6157+	TBN	LCBAT2(,DTF),LCBACT					
139A	B5	01	52		6158+	L	LCBPL@(,DTF),PL					
139D	75	01	0B		6159+	L	PLTUBA(,PL),TUB					
13A0	F2	13	03		6160+	JC	CMNOWN,TRUHI					
13A3	7A	01	0C		6161+	SBN	TUBAT2(,TUB),TUBOWN					
				13A6	6162+	CMNOWN	EQU	*				
13A6	9C	01	5C	12	6163+	MVC	LCBOWN(2,DTF),TUBTCB(,TUB)					
13AA	F2	87	37		6164+	J	CMBTXT					

XR1--> CURRENT IOB
HIGHER THAN X'42' AND -----
* LESS THAN X'80'-----
* AND LINE ACTIVE ?--
XR1--> PARM LIST
XR1 --> TUB
JUMP IF ERROR RETURN CODE<--
SET TUB OWNERSHIP. RB
*
SAVE TCB @ OF OWNER IN LCB. RB
GO TO RETURN. RB

```

6166+***** RB
6167+* RB
6168+* NAME--CMTASV * RB
6169+* * RB
6170+* TITLE--SET AND SAVE TERMINAL ATTRIBUTES * RB
6171+* * RB
6172+* FUNCTION--SET AND SAVE TAS BYTES 1 AND 2 , TUBPHY AND TUBRCL.* RB
6173+* * RB
6174+* ENTRY REGS: XR1-> PL. * RB
6175+* EXIT REGS: SAME AS ENTRY. * RB
6176+***** RB
    
```

```

13AD 34 08 13E7 13AD 6178+CMTASV EQU * RB
6179+ ST CMBTXT+3,ARR SAVE THE RETURN ADDRESS. RB
13B1 34 01 13E3 6180+ ST CMTSX1+3,PL SAVE THE PL REG. RB
13B5 7B 20 0D 6181+ SBF PL$OPC(,PL),OPUSER RESET FUNCTION INDICATOR. RB
13B8 79 80 02 6182+ TBF PLOPM(,PL),OP$SYS USER REQUEST, AND RB
13BB 79 C0 0D 6183+ TBF PL$OPC(,PL),OPRFSH+OPLSNS * NOT POLL STATUS OR REFRESH ?RB
13BE 75 01 0B 6184+ L PLTUBA(,PL),TUB LOAD THE TUB REG. RB
13C1 1C 00 15DB 23 6185+ MVC CMSPHY,TUBPHY(1,TUB) SAVE THE TUBPHY BYTE IN CORE. RB
13C6 F2 90 08 6186+ JF CMTSYS NO-GO SET SYSTEM TAS VALUES. RB
13C9 1C 03 15DA 21 6187+ MVC SAVRCL,TUBRCL(4,TUB) SAVE THE USER TAS VALUES. RB
13CE F2 87 0F 6188+ J CMTSX1 GO TO EXIT. RB
    
```

```

13D1 3C 10 15D7 13D1 6190+CMTSYS EQU * RB
6191+ MVI SAVTA1,TASAUT SET SET AUTO CONNECT VALUE RB
13D5 3C 20 15D8 6192+ MVI SAVTA2,TASMSG SET MESSAGE MODE IN TAS 2. RB
13D9 35 01 13E3 6193+ L CMTSX1+3,PL RELOAD THE PL REG. RB
13DD 7A 20 0D 6194+ SBN PL$OPC(,PL),OPUSER INDICATE SYSTEM FUNCTION. RB
13E0 C2 01 0000 13E0 6195+CMTSX1 EQU * RB
6196+ LA #,PL RELOAD THE USER PL REG. RB
13E4 C0 87 0000 13E4 6197+CMBTXT EQU * RB
6198+ B # RETURN. RB
    
```


				6256+*	EXIT, NORMAL--TO NSI OF CALLER.		* B
				6257+*			* B
				6258+*	EXIT, ERROR--IF SPACE IS NOT AVAILABLE, EXIT TO CMPAII AND WAIT		* B
				6259+*	UNTIL THE REQUIRED SPACE IS AVAILABLE.		* B
				6260+*			* B
				6261+*	*****		B
			13E8	6263+CMGINL	EQU *	*	B
13E8	34	08	14BA	6264+	ST CMGIXT+3,ARR	SAVE RETURN @.	B
13EC	B5	01	52	6265+	L LCBPL@(.DTF),PL	LOAD PARM LIST PTR TO GET THE	B
13EF	B9	10	34	6266+	TBF \$BDAT1(.DTF),\$BCRES	SPANNING RECORD IN PROCESS ?	B
13F2	B9	02	55	6267+	TBF LCBAT1(.DTF),LCBEOT	OR SENDING EOT ?	B
13F5	C0	90	14B7	6268+	BF CMGIXT	YES-GO EXIT EVERYTING'S DONE.	B
				6270+*	-----	-----	* B
				6271+*	NOT PROCESSING SPANNED RECORD		* B
				6272+*	-----	-----	* B
13F9	9C	01	1F 07	6274+	MVC \$BDREL(2,DTF),PLINL(,PL)	MOVE INL TO DTF RECL AREA.	B
13FD	9C	01	0D 09	6275+	MVC \$BDWKB(2,DTF),PLRECA(,PL)	MOVE CURRENT RECORD ADDR TO DTFB	B
1401	78	40	0D	6276+	TBN PL\$OPC(,PL),OPLSNS	POLL FOR STATUS OP ? 7/0/5B	B
1404	F2	90	08	6277+	JF CMGIUT	NOGO CHECK UNIT TYPE OF OP7/0/5B	B
				6279+*	-----	-----7/0/5B	B
				6280+*	POLL FOR STATUS	7/0/5B	B
				6281+*	-----	-----7/0/5B	B
1407	8C	01	1F 15EF	6283+	MVC \$BDREL(2,DTF),RELSNS	USE STANDARD STATUS RECL. 7/0/5B	B
140C	F2	87	7A	6284+	J CMGIRL	GO USE THIS LENGTH FOR GET7/0/5B	B
				6286+*	-----	-----	* B
				6287+*	NOT POLL FOR STATUS		* B
				6288+*	-----	-----	* B
			140F	6290+CMGIUT	EQU *	*	B
140F	38	80	15D8	6291+	TBN SAVTA2,TASREC	RECORD MODE ?	B
1413	F2	90	16	6292+	JF CMGIBK	NO-GO CHECK DATA LEFT IN BLOCK.	B
1416	AC	01	0D 78	6293+	MVC \$BDWKB(2,DTF),LCBIBA(.DTF)	USE INVITE BUF AREA FOR MLMP.	B
141A	75	01	0B	6294+	L PLTUBA(,PL),TUB	LOAD THE TUB REG.	B
141D	9D	01	1F 21	6295+	CLC \$BDREL(2,DTF),TUBRCL(,TUB)	INL LT TAS RECL ?	B
1421	F2	82	04	6296+	JL CMGIMX	YES-GO FILL MAX RECL ACCEPTABLE	B
1424	9C	01	1F 21	6297+	MVC \$BDREL(2,DTF),TUBRCL(,TUB)	OTHERWISE USE TAS RECORD LEN.	B
			1428	6298+CMGIMX	EQU *	*	B
1428	AC	01	11 1F	6299+	MVC \$BDMRL(2,DTF),\$BDREL(.DTF)	FILL MAX REC LEN ACCEPTABLE.	B
			142C	6301+CMGIBK	EQU *	*	B
142C	39	13	15D8	6302+	TBF SAVTA2,TASITB+TASVRL+TASPAN	MLMP VARIABLE RECORD SUPPORT?B	B
1430	F2	90	4D	6303+	JF CMGII@	YES-GO GET II RECORD @.	B
1433	B5	01	23	6304+	L \$BDIOB(.DTF),IOB	POINT TO THE IOB.	B
1436	7D	80	07	6305+	CLI IOBCMP(,IOB),PROCES	IOB BEING PROCESSED ?	B
1439	F2	81	1D	6306+	JE CMGIDX	YES-IOB READY, GO CK DATA LEN.	B
143C	7D	42	07	6307+	CLI IOBCMP(,IOB),\$BCEOT	EOT OR IOB COMPLETE ?	B
143F	39	20	15D8	6308+	TBF SAVTA2,TASMSG	AND NOT MESSAGE MODE INPUT ?	B
1443	F2	16	2F	6309+	JC CMGI00,TRUAEQ	EOT TO RECORD/BLOCK, 0 IN-LEN.	B
1446	39	20	15D8	6310+	TBF SAVTA2,TASMSG	MESSAGE MODE?	B
144A	F2	13	3C	6311+	JC CMGIRL,TRUahi	REC OR BLK AND MSG MODE--JUMP	B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	148
144D	F2	02	67		6312+	JNL	CMGIXT					NOT COMPLETE, WAIT FOR OP END. B
1450	9C	01	25	10	6313+	MVC	\$BDBKX(2,DTF),IOBTAR(,IOB)					SET UP BKX LIKE MLMP WILL. B
1454	8E	01	25	4633	6314+	ALC	\$BDBKX(2,DTF),X\$0001					UPDATE FOR -STX-. B
					1459	6315+	CMGIDX EQU	*				* B
1459	9D	01	25	0E	6316+	CLC	\$BDBKX(2,DTF),IOBCAR(,IOB)					DATA LEFT IN BUFFER ? B
145D	F2	02	57		6317+	JNL	CMGIXT					NO-GO EXIT, WAIT FOR OP END. B
1460	9C	01	54	0E	6318+	MVC	LCBWRK(2,DTF),IOBCAR(,IOB)					FIND THE NUMBER OF DATA B
1464	AF	01	54	25	6319+	SLC	LCBWRK(2,DTF),\$BDBKX(,DTF)					* CHARACTERS LEFT IN BUFFER. B
1468	AD	01	1F	54	6320+	CLC	\$BDREL(2,DTF),LCBWRK(,DTF)					INL LT MAX LINE DATA LEFT. B
146C	F2	02	0D		6321+	JNL	CMGIAL					NO-GO SET TO GET ALL DATA. B
146F	BA	80	56		6322+	SBN	LCBAT2(,DTF),LCBTRC					SET BLOCK TRUNCATED IND. B
1472	F2	87	0B		6323+	J	CMGII@					GO CHECK INVITE RECORD @. B
					1475	6325+	CMGI00 EQU	*				* B
1475	AF	01	1F	1F	6326+	SLC	\$BDREL(2,DTF),\$BDREL(,DTF)					ZERO OUT INPUT RECORD LENGTH. B
1479	F2	87	04		6327+	J	CMGII@					GO CHECK INVITE RECORD LENGTH. B
					147C	6329+	CMGIAL EQU	*				* B
					6330+		ACTUAL AMOUNT OF DATA FOR MLMP TO MOVE, MAY BE LESS THAN PLINL					B
147C	AC	01	1F	54	6331+	MVC	\$BDREL(2,DTF),LCBWRK(,DTF)					MOVE MAX LINE LEN TO RECL. B
					6333+	*	-----*					B
					6334+	*	DETERMINE SIZE OF HOLD BUFFER NEEDED					* B
					6335+	*	-----*					B
					1480	6337+	CMGII@ EQU	*				* B
1480	B5	01	52		6338+	L	LCBPL@(,DTF),PL					LOAD @ OF CURRENT PARM LIST. B
1483	78	80	02		6339+	TBN	PLOPM(,PL),OP\$SYS					SYSTEM REQUEST ? B
1486	F2	10	08		6340+	JT	CMGISR					YES-GO SET UP SYSTEM RECORD LENB B
					1489	6341+	CMGIRL EQU	*				* B
1489	2C	01	15DD	1F	6342+	MVC	#BUFND,\$BDREL(2,DTF)					USE CURRENT RECORD LEN AND ADD B
148E	F2	87	05		6343+	J	CMGICB					GO ADD GETMAIN CONTROL BYTES. B
					6345+	*	-----*					B
					6346+	*	SYSTEM REQUEST OR USER GET MESSAGE					* B
					6347+	*	-----*					B
					1491	6349+	CMGISR EQU	*				* B
1491	1C	01	15DD	07	6350+	MVC	#BUFND,PLINL(2,PL)					USE PARM LIST INL FOR SYST. B
					6352+	*	-----*					B
					6353+	*	ANY CALL EXCEPT USER GET MESSAGE PRIOR TO 1ST OP END.					* B
					6354+	*	-----*					B
					1496	6356+	CMGICB EQU	*				* B
1496	0E	01	15DD	4637	6357+	ALC	#BUFND(2),X\$0004					* GETMAIN PARM LIST REQ'MTS. B
149C	C0	87	0E8E		6359+	B	CMGBUF					GETMAIN RIGHT SIZE BUFFER B
					6360+							IF SPACE NOT AVAILABLE, CMGBUF B
					6361+							*DOES NOT RETRUN, B CMPAII. B
14A0	AC	01	0D	78	6363+	MVC	\$BDWKB(2,DTF),LCBIBA(,DTF)					USE INVITE BUF AREA FOR MLMP. B
14A4	B5	01	52		6364+	L	LCBPL@(,DTF),PL					LOAD PARM LIST REG. B
14A7	78	40	0D		6365+	TBN	PL\$OPC(,PL),OPLSNS					POLLING FOR STATUS ? 0/5/7B
14AA	F2	90	06		6366+	JF	CMGMOV					NO-GO DO MOVE OF RECORD @.0/5/7B
14AD	78	01	0D		6367+	TBN	PL\$OPC(,PL),OPGET					IF OP WAS INPUT , PLRECA 0/5/7B

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 149
			6368+*					* MUST BE SET TO GET 0/5/7B
			6369+*					* DATA RATHER THAN STATUS.0/5/7B
14B0	F2 90 04		6370+	JF	CMGIXT			NO-NOT INVITE, SKIP MOVE. 0/5/7B
			6371+*					(PUT MUST PRESERVE REC @) 0/5/7B
		14B3	6372+	CMGMOV EQU	*			* LOCAL 0/5/7B
14B3	6C 01 09 0D		6373+	MVC	PLRECA(2,PL), \$BDWKB(,DTF)			PUT INVITE @ INTO PARM LIST. B
		14B7	6374+	CMGIXT EQU	*			* B
14B7	C0 87 0000		6375+	B	##			RETURN B

```

6377+*****
6378+*
6379+* NAME : CMDTFS
6380+*
6381+* FUNCTION : SET UP DTF FOR BSCA LINE PRIOR TO GOING TO IOCS CHECK*
6382+* ROUTINE.
6383+*
6384+* OPERATION :
6385+* CHECK FOR BSCA DTF'S WITH OPERATION COMPLETE, WHEN FIND ONE
6386+* DO 1 OF THE FOLLOWING:
6387+* 1. IF ABORTING THE LINE, GO TO CHECK WITH NO DTF SETTING UP.
6388+* 2 .IF OLT RUNNING/OUTPUT SELECT/OR DATA MOVED, NO DTF SETUP
6389+* NEEDED PRIOR TO CALLING CHECK.
6390+* 3. IF RECEIVE INITIAL, SET UP DTF AND IOB FOR TERMINAL READING*
6391+* UNLESS EOT RECEIVED TO RECEIVE INITIAL, IF SO CALL CHECK*
6392+* 4. IF NOT RECEIVE INITIAL, VALIDATE INPUT LINE BUFFER SIZE.
6393+*
6394+* EXTERNAL SUBROUTINES USED:
6395+* CMCSKP - SET CHECK LIST SKIP BITS.
6396+* CMTASV - SAVE TERMINAL ATTRIBUTES.
6397+* CMBTAS - FILL DTF/IOB OWNERSHIP.
6398+* CMGINL - GETMAIN BUFFER FOR AMOUNT OF DATA RECEIVED.
6399+* $CC4BI - CHECK FOR DATA MODE ESCAPE.
6400+*
6401+* INPUT:
6402+* LCB#1 - ADDRESS LCB CHAIN.
6403+* @CKLST - ADDRESS OF CHECK LIST.
6404+*
6405+* OUTPUT:
6406+* CHECK LIST - SKIP BITS SET SO CMBMCH WILL HANDLE OP END.
6407+* DTF - THE OP ENDING DTF IS SETUP FOR MLMP.
6408+* XR1, XR2 - DESTROYED.
6409+*
6410+* EXITS-NORMAL: 1- TO NSI OF CALLER.
6411+* 2 - IF OP END WHILE PARAMETER LIST HAS TEMPORARILY BEEN
6412+* RETURNED TO USER PROGRAM (BLOCK/RECORD MODE), EXIT
6413+* TO CMOPND.
6414+*
6415+*****
    
```

```

14BB 34 08 15AE 14BB 6417+CMDTFS EQU * * ENTRY POINT B
6418+ ST CMDTFX+3,ARR SAVE RETURN ADDRESS B
    
```

```

6420+* LOCATE ANY BSCA DTF'S. B
    
```

```

14BF 3B 04 15B5 6422+ SBF CMSWIT,CMBSCK RESET BSCA DTF CHECK SCDEDULED.B
14C3 35 02 464D 6423+ L @LCB#1,DTF LOAD @ 1ST LCB. B
14C7 6424+CMENTR EQU * * B
    
```

```

14C7 34 02 15CD 6426+ ST CMSDTF,DTF SAVE THE DTF ADDRESS. B
    
```

```

6428+*****
6429+* BSCA DTF WITH OP END FOUND - CHECK FOR PARAMETER LIST
6430+*****
    
```

```

6432+* EXAMINE THE PARM LIST, IGNORE OP END INTERRUPT IF PARM LIST NOT B
    
```


ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 151
			6433+*		QUEUED.			B
		14CB	6435+	CMEXPM EQU *	* LOCAL			B
14CB	B8 08 55		6436+	TBN	LCBAT1(,DTF),LCBNTQ			PARM LIST REMOVED FROM QUEUE ? B
14CE	F2 90 12		6437+	JF	CMBDTF			NO-GO SETUP DTF FOR \$\$BMCH B
			6438+*					* WILL RETURN TO CMEANR B
14D1	BA 10 55		6439+	SBN	LCBAT1(,DTF),LCBINT			SET OP END W/ NO PARM LIST Q'D.B
14D4	8F 00 6C 4633		6440+	SLC	LCBOPE(1,DTF),X\$0001			DECREMENT LINE OP END COUNT. B
14D9	0F 00 472A 4633		6441+	SLC	#OPEND,X\$0001(1)			SUBTRACT 1 FROM OP END COUNT. B
14DF	C0 87 0042		6442+	B	CMOPND			GO CHECK FOR OTHER OP END'S. B
			6444+	*****				B
			6445+*		SET UP DTF FOR THIS LINE			* B
			6446+	*****				B
		14E3	6448+	CMBDTF EQU *	* SET DTF SCHEDULED FOR CHECK			B
14E3	3A 04 15B5		6449+	SBN	CMSWIT,CMBSCK			B
			6451+	*****				B
			6452+*		IF LINE IS BEING ABORTED, THEN GO TO CHECK WITH NO SETTING UP.*			B
			6453+	*****				B
14E7	B8 08 56		6455+	TBN	LCBAT2(,DTF),LCBABT			LINE ABORT IN PROCESS ? B
14EA	C0 10 15AB		6456+	BT	CMEBCK			YES-NO DTF SETTING UP,NEXT DTF B
			6458+*		SAVE THE TAS ATTRIBUTES FROM THE TUB IN SAVE AREA.			B
14EE	B5 01 52		6460+	L	LCBPL@(,DTF),PL			LOAD PARM LIST OF ACTIVE TERM, B
14F1	C0 87 13AD		6462+	B	CMTASV			GO TO TAS SAVE SUBROUTINE. B
			6465+	*****				B
			6466+*		IF OUTPUT OPERATION - NO DTF SETUP NEEDED PRIOR TO CHECK			* B
			6467+	*****				B
14F5	B9 80 7D		6469+	TBF	LCBOPC(,DTF),LCBMVD			DATA MOVED OR B
14F8	79 02 0C		6470+	TBF	PL\$OPM(,PL),OPPUT			OUTPUT (SELECTION) OPERATION ? B
14FB	BB 80 7D		6471+	SBF	LCBOPC(,DTF),LCBMVD			SET OFF DATA MOVED IND. B
14FE	C0 90 15AB		6472+	BF	CMEBCK			YES-GO CHECK FOR ANOTHER DTF. B
1502	B8 01 56		6474+	TBN	LCBAT2(,DTF),LCBRCI			RECEIVE INITIAL ON LINE ? B
1505	C0 90 15A7		6475+	BF	CMEREC			NO-GO HANDLE DATA REC LENGTH @18 B
			6477+	*****				B
			6478+*		RECEIVE INITIAL ON THE LINE			* B
			6479+*		IF LINE INIT OR ONLINE TEST STILL IN PROGRESS - DTF SETUP			* B
			6480+*		IS ALREADY DONE.			* B
			6481+	*****				B
1509	B5 01 23		6483+	L	\$BDIOB(,DTF),IOB			POINT TO THE IOB B
150C	78 04 05		6484+	TBN	IOBFLA(,IOB),FIRST			LINE INIT STILL IN PROCESS ? B
150F	C0 10 15AB		6485+	BT	CMEBCK			YES-GO TO CHECK OTHER DTF'S. B
1513	B5 01 30		6486+	L	\$BDWKA(,DTF),\$BWK			POINT TO BSCA WORK AREA. B

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	152
1516	B8	10	56		6487+	TBN	LCBAT2(,DTF),LCBRFT					WAS DTF SETUP FOR OLT ON PRIOR B
					6488+*							* PASS ? B
1519	F2	90	0D		6489+	JF	CMERFF					NO-CHECK FOR RFT COMING IN. B
151C	78	08	1D		6490+	TBN	\$BWFG3(,\$BWK),\$BWRFT					OLT STILL RUNNING OR STATUS MSGB
151F	C0	10	15AB		6491+	BT	CMEBCK					YES-GO CHECK FOR OTHER DTF'S. B
1523	BB	10	56		6492+	SBF	LCBAT2(,DTF),LCBRFT					OLT NO LONGER RUNNING, SET OFF.B
1526	F2	87	09		6493+	J	CMERCI					GO HANDLE THE RECEIVE INITIAL. B
				1529	6495+	CMERFF EQU	*					* LOCAL B
1529	78	08	1D		6496+	TBN	\$BWFG3(,\$BWK),\$BWRFT					OLT RUNNING OR STATUS MESSAGE B
152C	F2	90	03		6497+	JF	CMERCI					NO-GO HANDLE RECEIVE INITIAL. B
152F	BA	10	56		6498+	SBN	LCBAT2(,DTF),LCBRFT					SET RFT STARTED AND RUNNING. B
				1532	6499+	CMERCI EQU	*					* LOCAL B
					6501+*							-----*
					6502+*		IF CANCEL SUCCESSFUL (NO DATA) -- NO DTF SETUP PRIOR TO CHECK					* B
					6503+*							-----*
1532	B5	01	23		6505+	L	\$BDIOB(,DTF),IOB					LOAD THE IOB REG. B
1535	7D	44	07		6506+	CLI	IOBCMP(,IOB),\$BCNEG					NEGATIVE RESPONSE ? B
1538	C0	81	15AB		6507+	BE	CMEBCK					YES-GO CHECK OTHER DTFS @18
153C	B9	C0	55		6508+	TBF	LCBAT1(,DTF),LCBCRI+LCBPRI					CANCEL PENDING ON THE LINE ? B
153F	F2	10	07		6509+	JT	CMERCL					NO - SET UP FOR RECEIVE B
1542	7D	42	07		6510+	CLI	IOBCMP(,IOB),\$BCEOT					CANCEL OK ? B
1545	C0	81	15AB		6511+	BE	CMEBCK					YES-GO CHECK FOR OTHER DTF'S. B
					6513+*							-----*
					6514+*		DATA RECEIVED -- SET UP DTF					* B
					6515+*							-----*
				1549	6517+	CMERCL EQU	*					* LOCAL B
1549	AC	00	50 15		6518+	MVC	LCBID#(1,DTF),\$BDIND(,DTF)					MOVE IN CONTROL STATION ID. CB
154D	B8	88	03		6519+	TBN	\$BDATR(,DTF),\$BCMCN					CONTROL STATION ? CB
1550	F2	10	00		6520+	JT	CMECTL					YES-GO FIND PARM LIST FOR CS. CB
					6522+*		FIND PARM LIST FOR MULTI-TERMINAL LINE.					C/SB
				1553	6524+	CMECTL EQU	*					* LOCAL C/SB
1553	B5	01	66		6525+	L	LCBPLQ(,DTF),PL					LOAD PTR TO FIRST PARM LIST.C/SB
				1556	6526+	CMEXID EQU	*					* LOCAL C/SB
1556	B4	01	52		6527+	ST	LCBPL@(,DTF),PL					SAVE @ OF CURRENT PARM LIST.C/SB
1559	78	10	0D		6528+	TBN	PL\$OPC(,PL),OPSTCM					IS STOP INVITE TURNED GET C/SB
					6529+*							* STILL RECVING DATA. C/SB
155C	F2	10	09		6530+	JT	CMESIJ					YES - HANDLE IT LIKE GET. C/SB
155F	78	01	0C		6531+	TBN	PL\$OPM(,PL),OPGET					THIS A GET PARM LIST ? C/SB
1562	79	04	02		6532+	TBF	PLOPM(,PL),OPSTOP					* AND NOT A STOP C/SB
1565	F2	90	0D		6533+	JF	CMENXT					NO-GO TO GET NEXT PARM LIST.C/SB
				1568	6534+	CMESIJ EQU	*					* LOCAL C/SB
1568	75	01	0B		6535+	L	PLTUBA(,PL),TUB					LOAD @ OF THIS TERMS TUB. C/SB
156B	6D	00	08 50		6536+	CLC	TUBSID(1,TUB),LCBID#(,DTF)					THIS RESPONDING TERM'S TUB C/SB
				156F	6537+	CMEPRT EQU	*					
156F	B5	01	52		6538+	L	LCBPL@(,DTF),PL					RELOAD PARM LIST @. C/SB
1572	F2	81	0E		6539+	JE	CMESKP					YES-GO SET SKIP BIT ON. C/SB
				1575	6540+	CMENXT EQU	*					* LOCAL C/SB
1575	7D	00	00		6541+	CLI	PLCHN-1(,PL),NOBIT					IS THIS THE END OF THE CHAIN @25
1578	F2	01	01		6542+	JNE	CMESLP					NO - THEN CONTINUE NORMALLY @25

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 153
157B	00	157B	6543+	DC	XL1'00'	NO PARM LIST - U-PC		@25
		157C	6544+	CMESLP	EQU *	@25		
157C	75 01 01		6545+	L	PLCHN(,PL),PL	LOAD REG TO NEXT PARM LIST @C/SB		
157F	C0 87 1556		6546+	B	CMEXID	GO BACK TO EXAMINE THIS ID. C/SB		
		1583	6548+	CMESKP	EQU *	* LOCAL		C/SB
1583	AC 00 6D 50		6550+	MVC	LCBLID(1,DTF),LCBID#(,DTF)	SAVE LAST TERMINAL ID		C/SB
			6552+*		SAVE THE TAS ATTRIBUTTES FOR NEW TERMINAL.			
1587	C0 87 13AD		6554+	B	CMTASV	GO TO TAS SAVE SUBROUTINE.		B
			6556+*		SET DTF AND IOB ATTRIBUTES, OWN, RECEIVE IND'S, AND BLOCK LENGTH.			B
			6557+*		ALSO SET LINE OWNERSHIP STATUS.			
		158B	6559+	CMEOWN	EQU *	* LOCAL		B
158B	C0 87 1330		6561+	B	CMBTAS	RTN TO FILL DTF/IOB/OWNERSHIP.		B
			6564+*		CORRECT ALL IOB'S IN THE CHAIN FOR ANY NEW ATTRIBUTTES SET.			
		158F	6566+	CMEIIOB	EQU *	* LOCAL		B
158F	B5 01 23		6567+	L	\$BDIOB(,DTF),IOB	LOAD THE IOB POINTER.		B
		1592	6568+	CMBTIB	EQU *	* LOCAL		B
1592	6C 00 06 02		6569+	MVC	IOBFLG(1,IOB),\$BDATT(,DTF)	MOVE ATTR. BYTE TO IOB.		B
1596	6D 01 01 23		6570+	CLC	IOBNXT(2,IOB),\$BDIOB(,DTF)	ANOTHER IOB IN THE CHAIN ?		B
159A	75 01 01		6571+	L	IOBNXT(,IOB),IOB	LOAD @ OF NEXT IOB.		B
159D	C0 01 1592		6572+	BNE	CMBTIB	YES-GO FILL THE NEXT IOB.		B
			6574+*		IF NOT A GOOD DATA BLOCK, DON'T CHECK DME, RECORD LENGTH, ETC.			B
15A1	79 BD 07		6576+	TBF	IOBCMP(,IOB),ALLBIT-\$BCEOT	GOOD DATA BLOCK?		B
15A4	F2 90 04		6577+	JF	CMEBCK	NO-GO CHECK OTHER DTF'S.		B
			6579+*		-----*			B
			6580+*		GOOD DATA RECEIVED			B
			6581+*		-----*			B
			6584+*		*****			B
			6585+*		ALL READS --- DETERMINE BUFFER SIZE NEEDED - ADJUST HOLD BUFFER*			B
			6586+*		*****			B
		15A7	6588+	CMEREC	EQU *	*		B
15A7	C0 87 13E8		6589+	B	CMGINL	COMPUTE AMOUNT OF DATA TO MOVE		B
			6590+*			GETMAIN RIGHT SIZE BUFFER		B
			6591+*			* NOW THAT WE KNOW HOW MUCH		B
			6592+*			* DATA CAME IN.		B
		15AB	6594+	CMEBCK	EQU *	* (WITHIN CMBDTF)		B
		15AB	6595+	CMECHK	EQU *	* EXIT		B
15AB	C0 87 0000		6596+	CMDTFX	B *-*	RETURN		B
			6597 *		\$E095			
			6598+*		R-03,C-00			

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 154
			6600+	*****				
			6601+*	CM WORK AREA				*
			6602+	*****				
15AF	0003	15B0	6604+	X\$0003 DC	XL2'0003'	CONSTANT OF 0003		@18
15B1	FFFC	15B2	6605+	X\$FFFC DC	XL2'FFFC'	CONSTANT OF FFFC		
15B3	0020	15B4	6606+	GMFAIL DC	XL2'0020'	PSR SETTING = BINARY OVERFLOW		
15B5	00	15B5	6607+	CMSWIT DC	BL1'0'	SET OF EIGHT BINARY SWITCHES		
		0080	6608+	CMFMPS EQU	BIT0	CM WAS POSTED BY \$CC4FM		
		0040	6609+	CMRSLN EQU	BIT1	1-INDICATES LINE CAN BE RESCHED		
		0020	6610+	CMTPRQ EQU	BIT2	1-INDICATES REQUEST JUST		
			6611+*			SCHEDULED WAS RESULT OF TP REQ		
			6612+*			POST BIT BEING SET		
		0008	6613+	CMNOST EQU	BIT4	1-ONLINE TEST START FAILED		
		0004	6614+	CMBSCK EQU	BIT5	1-BSCA DTF SET UP FOR CHECK CALL		
		0002	6615+	CMSPSI EQU	BIT6	1-CM HAS HANDLED STOP INVITE TO		
			6616+*			* A STATUS POLL TERMINAL.		
15B6	00000000	15B9	6617+	WCOUNT DC	XL4'00000000'	WORK AREA COUNTER FOR TEXT LEN		
15BA	0000	15BB	6618+	CMRFCK DC	XL2'0000'	PRUF PGM LENGTH CHECK FIELD		
15BC	0007	15BD	6619+	CMSEVN DC	XL2'0007'	PGM LENGTH FOR PRUF COMPARE		
			6621+*	ECB LIST USED BY \$CC4CM TO WAIT FOR MORE WORK				
		15BE	6623+	ECBLST EQU	*	* WAIT LIST FOR CM		
15BE	4739	15BF	6624+		DC	AL2(\$CMECB)		ECB FOR II,IB,IM,DF TO POST CM.
15C0	473C	15C1	6625+		DC	AL2(\$CMFM)		ECB FOR \$CC4FM TO POST THAT
			6626+*			* FREEMAIN HAS OCCURRED.		
15C2	1600	15C3	6627+		DC	AL2(TIMIOB+7)		INTERVAL TIMER ECB NB
15C4	FFFF	15C5	6628+		DC	XL2'FFFF'		
			6631+*	GETMAIN PARAMETER LIST				
		15C6	6633+	GMLIST EQU	*	START OF GETMAIN PARM LIST		
15C6		15C7	6634+		DS	AL2		GETMAIN ADDRESS
15C8		15C9	6635+		DS	XL2		SIZE OF GETMAIN AREA
			6637+*	SAVE AREAS				
			6639+*	THE FOLLOWING 4 BYTES MUST REMAIN TOGETHER FOR PARAMETER LIST				
		15CA	6640+	CMOCPL EQU	*	* 4 BYTE PL FOR MLMP OPEN/CLOSE		
15CA		15CB	6641+	CMSPL DS	AL2	SAVE AREA FOR PARM LIST ADDR		
15CC		15CD	6642+	CMSDTF DS	AL2	SAVE AREA FOR TP DTFADDR		
15CE	00000000	15D1	6643+	SAVCAT DC	XL4'0'	SAVE AREA FOR IOBCAR + IOBTAR		B
15D2	0000	15D3	6645+	CMNWPL DC	AL2(0)	ADDR OF NO WAIT OP PL FROM II		
15D4	0000	15D5	6646+	CMLPL DC	AL2(0)	LAST READ PL SCHEDULED BY CMIVGM		
15D6	02	15D6	6648+	CCPUT DC	XL1'02'	PUT OP CODE (FOR REFRESH)		B
			6649+*	SAVE AREA FOR TERMINAL ATTRIBUTES				
			6650+*	NOTE: SAVTA1 AND SAVTA2 ARE SET BY ONE MOVE INTO SAVRCL OR				
			6651+*	SAVTA2.				

ERR	LOC	OBJECT	CODE	ADDR	STMT	SOURCE	STATEMENT	SCP	GENERATOR	08/08/10	PAGE	155
15D7	00			15D7	6652+	SAVTA1	DC	XL1'0'				TERMINAL ATTRIBUTE SET BYTE 1.R
15D8	00			15D8	6653+	SAVTA2	DC	XL1'0'				TERMINAL ATTRIBUTE SET BYTE 2.R
15D9	0000			15DA	6654+	SAVRCL	DC	XL2'00'				TERM ATTR SET RECORD LENGTH. RB
15DB	00			15DB	6656+	CMSPHY	DC	AL1(0)				SAVE AREA FOR TUBPHY. R
15DC				15DD	6657+	#BUFND	DS	CL2				CONTAINS STORAGE BUFFER R
					6658+*							* SIZE NEEDED. R
15DE				15DF	6659+	CMIIND	DS	XL2				SIZE OF BUFFER NEEDED FOR LINE
					6660+*							ADDRESS PLUGGED BY MLMP/MLTA IOCS - NO EXPLICITLY USED BUT
					6661+*							THE IOCS(S) ASSUME IT IS ALWAYS IN \$\$BMCH WHICH WE REPLACE
15E0	000000			15E2	6662+	CHBMHL	DC	XL3'0'				BOGUS DC FOR BRACKET HALT
					6664+*****							
					6665+*	CM	CONSTANT	AREA				*
					6666+*****							
15E3	15E5			15E4	6669+	FNDEOT	DC	AL2(BBUCKT)				@ OF BIT BUCKET AREA FOR SEARCHB
15E5	00			15E5	6670+	BBUCKT	DC	XL1'00'				DUMMY AREA FOR SEARCH EOT. B
15E6	0005			15E7	6672+	FIVE	DC	XL2'0005'				CONSTANT OF FIVE. RB
15E8	0007			15E9	6673+	OLTLNG	DC	AL2(7)				LENGTH OF OLT PARM LIST. B
15EA	07FF			15EB	6674+	RND2K	DC	XL2'07FF'				CONSTANT TO ROUND TO 2K @19
				0007	6675+	BND2K	EQU	X'07'				EQUATE TO ROUND TO 2K @19
15EC	0015			15ED	6676+	IOBLEN	DC	AL2(IOBL)				LENGTH OF BSCA IOB. RB
				0015	6677+	LINFO	EQU	IOBL				MAX # LINE CONTROL CHARS MLMP. B
15EE	0014			15EF	6678+	RELSNS	DC	XL2'0014'				MAX RECL FOR STATUS POLL. 0/57B
15F0	0066			15F1	6679+	MAXMSG	DC	AL2(80+FORMTL)				MAX SPACE FOR SYSTEM MSG. 0B
15F2	6CD9			15F3	6680+	CMSTUS	DC	AL2(SSID)				CHECK VALUE FOR 3270 STATUS MS0B
15F4	00000000			15F7	6681+	ZROTIM	DC	XL4'00000000'				CONSTANT FOR TIME CHECK NB
15F8	01			15F8	6682+	TIMOPE	DC	XL1'01'				TIMER INTERNAL SWITCH NB
				0001	6683+	VALOPE	EQU	BIT7				BIT 7=1 - DON'T WAIT ON TIMER NB
					6684+*							* AN OP END OCCURRED. NB
				0002	6685+	POL1MN	EQU	BIT6				BIT 6=1 - POLL UNTIL TIME = 0 NB
				15F9	6687+	TIMIOB	EQU	*				INTERVAL TIMER IOB NB
15F9	00			15F9	6688+		DC	XL1'0'				FLAG BYTE NB
					6689+*							02 = TIME IS IN TIMER UNITS NB
					6690+*							(1 TU = 3.33 MS) NB
					6691+*							FF = CANCEL REMAINING TIME NB
15FA	000000000258			15FF	6692+		DC	XL6'000000000258'				TIME(INITIAL = 2 SEC.) NB
1600	000000			1602	6693+		DC	XL3'0'				ECB FOR TIMER NB
1603	0017			1604	6695+	PLGMLG	DC	AL2(PLEN+4)				PL GETMAIN LENGTH INCL FREELIST
1605	0014			1606	6696+	PLGMLN	DC	AL2(PLEN+1)				PL GM LENGTH, USER INVITE @19

6698+* COMMON MLTA/BSCA EQUATES

0000	6700+GMCCP	EQU	0	BEGINNING OF GETMAIN PARM LIST
0001	6701+GMADDR	EQU	GMCCP+2-1	GETMAIN ADDRESS
0003	6702+GMSIZE	EQU	GMADDR+2	SIZE OF GETMAIN AREA
0006	6704+DMELEN	EQU	6	LENGTH OF DME STRING D
0001	6705+TLERR	EQU	BIT7	BIT IN TRANSLATE RETURN CODE TO
	6706+*			INDICATE INVALID CHAR TRANSLATED
0002	6707+HEX512	EQU	X'02'	VALUE OF HEX 02
0002	6708+DTF	EQU	2	DTF REG.
0001	6709+PL	EQU	1	PARAMETER LIST REGISTER.
0001	6710+TUB	EQU	1	PTR TO TERMINAL UNIT BLOCK.
0001	6711+SWAPFR	EQU	X'01'	MOVE TYPE FOR FROM ATR SWAP
0002	6712+SWAPTO	EQU	X'02'	MOVE TYPE FOR TO ATR SWAP

6713+* EQUATES FOR COMMON CHECK *

0002	6715+DTFADR	EQU	2	DISPLACEMENT TO DTF IN WAIT LIST
0001	6716+LISTRG	EQU	1	WAIT LIST POINTER - REGISTER 1
0003	6717+NEXT	EQU	3	DISPLACEMENT TO NEXT LIST ENTRY
0000	6718+NOBSCA	EQU	X'00'	MASK TO TEST FOR BSCA PRESENCE
0000	6719+NOMLTA	EQU	X'00'	MASK TO CHECK FOR NO MLTA PRESEN
0008	6720+OPGONE	EQU	X'08'	CODE DESTROYED BIT
0087	6721+UNCOND	EQU	X'87'	UNCONDITIONAL Q-CODE FOR BRANCH
0000	6722+CHLSTS	EQU	0	CHECK LIST STATUS BYTE
0080	6723+CHLSKP	EQU	X'80'	CHECK LIST: SKIP ENTRY BIT
0020	6724+CHLAST	EQU	X'20'	CHECK LIST: LAST ENTRY INDICATOR

6726+* DTF EQUATES.

0000	6728+DTFDEV	EQU	0	DTF DEVICE TYPE.
0003	6729+DTFATR	EQU	3	DTF ATTRIBUTE BYTE.
0002	6730+FILEAC	EQU	X'02'	FILE ACTIVE.
0001	6731+FILOPN	EQU	X'01'	FILE OPENED.
000E	6732+DTFCMP	EQU	14	DTF COMPLETION CODE.
0000	6733+OPACC	EQU	X'00'	OPERATION ACCEPTED.
0056	6734+NOCOMP	EQU	X'56'	NO COMPLETED DTF'S.
0057	6735+INACTV	EQU	X'57'	NO ACTIVE DTF'S.

6737+* SVC RIB EQUATES

0005	6739+POSTRB	EQU	X'05'	SVC RIB FOR POST SINGLE ECB.
0004	6740+WAITRB	EQU	X'04'	SVC RIB FOR WAIT ON ECB LIST.
0002	6741+MVRIB	EQU	X'02'	SVC SUBRIB FOR MOVE ROUTINE
0003	6742+GMRIB	EQU	X'03'	SVC SUBRIB FOR CCP GETMAIN.
0004	6743+FMRIB	EQU	X'04'	SVC SUBRIB FOR CCP FREEMAIN
0009	6744+TRRIB	EQU	X'09'	SVC SUBRIB FOR TRACE
0080	6745+LDRIB	EQU	X'80'	SVC RIB FOR LOAD DSM XIENT (C/S)
0016	6746+TTMRIB	EQU	X'16'	SVC RIB FOR TEST TIMER
0015	6747+STMRIB	EQU	X'15'	SVC RIB FOR START TIMER
0001	6748+CCPRIB	EQU	X'01'	SVC RIB FOR CCP REQUEST.(\$CC4IG)

0096	6750+FLSNEQ	EQU	X'96'	CONDITION: FALSE OR NOT EQUAL.
0095	6751+FLSNLO	EQU	X'95'	CONDITION: FALSE OR NOT LOW.
0091	6752+FLSOEQ	EQU	X'91'	CONDITION: FALSE OR EQUAL.

\$CC4#2 \$E095---EQUATES

ERR LOC OBJECT CODE ADDR STMT SOURCE STATEMENT SCP GENERATOR 08/08/10 PAGE 157

0094	6753+FLSOHI	EQU	X'94'	CONDITION: FALSE OR HI.
0016	6754+TRUAEQ	EQU	X'16'	CONDITION; TRUE AND EQUAL.
0015	6755+TRUALO	EQU	X'15'	CONDITION: TRUE AND LOW.
0011	6756+TRUNEQ	EQU	X'11'	CONDITION: TRUE AND NOT EQUAL.
0013	6757+TRUAHI	EQU	X'13'	CONDITION: TRUE AND HIGH.

ERR LOC	OBJECT CODE	ADDR	STMT	SOURCE	STATEMENT	SCP GENERATOR	08/08/10	PAGE 158
		6760+*		BSCA	EQUATES			B
0040		6762+BLANK	EQU	X'40'	MASK FOR A BLANK CHARACTER.			B
0080		6763+BSCA	EQU	X'80'	Q CODE FOR BSCA.			B
0040		6764+DONE	EQU	X'40'	NORMAL COMPLETION.			B
0020		6765+POLBIT	EQU	X'20'	ON-ADDRESSING, OFF-POLLING.			B
0084		6766+READY	EQU	X'84'	IOB READY FOR TRANSMIT.			B
007B		6767+SBF1	EQU	X'7B'	SBF BASED ON XR1.			B
007A		6768+SBN1	EQU	X'7A'	SBN BASED ON XR1.			B
00BB		6769+SBF2	EQU	X'BB'	SBF BASED ON XR2.			B
00BA		6770+SBN2	EQU	X'BA'	SBN BASED ON XR2.			B
0008		6771+STPRT	EQU	X'08'	MASK FOR START PRINT BIT IN WCCB			B
0001		6772+TXTSNT	EQU	X'01'	INITIAL SETTING TEXT INDICATORSB			B
0002		6773+WCC	EQU	2	DISPLACEMENT OF WCC IN PLRECA.			B
0002		6774+IBX	EQU	2	IOB WORK REG FOR BUFFER CARVE.			B
0001		6775+IOB	EQU	1	PTR TO INPUT/OUTPUT BLOCK			B
0001		6776+POL	EQU	1	POLL LIST WORK REGISTER.			B
0001		6777+WKA	EQU	1	WORK AREA REGISTER.			B
0001		6778+WORK	EQU	1	GENERAL WORK REG.			B
00FC		6779+FC	EQU	X'FC'	USED FOR LESS THAN 3 CHECK			FB
0080		6780+POLSKP	EQU	X'80'	SKIP BIT FOR POLLING LIST			CB
0059		6781+CPURGE	EQU	X'59'	CCP ABORT COMPLETION CODE			B
0007		6782+NSECS	EQU	7	NUMBER OF SECTORS-1 FOR C/S			B
		6783+*			TRANSIENT LOAD			B
		6784+*		EQUATES FOR TIMER INITIATED POLLING				NB
0000		6786+TIFLAG	EQU	0	TIMER FLAG BYTE			NB
		6787+*			02=TIME IS IN TIMER UNITS			NB
		6788+*			FF=CANCEL REMAINING TIME			NB
0006		6789+TITIME	EQU	6	TIME FIELD			NB
0000		6790	END	\$CC4#2				CCP00293

\$CC4#2

CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
\$\$BMCH	001	124B	5882	2174 3311
\$\$BSMS	001	0001	2184	3310 4328
\$AM	001	46F7	0347	0349
\$AMA1	001	0010	0353	
\$AMA2	001	0008	0354	
\$AMBSY	001	0080	0350	
\$AMDFE	001	0020	0352	
\$AMERR	001	0002	0356	
\$AMFLG	001	46F7	0349	0358 4515*
\$AMID	001	46FC	0382	0383
\$AMPA	001	46F9	0368	0379
\$AMPF9	001	0004	0355	4515
\$AMSA	001	46FA	0379	0381
\$AMSHR	001	46FB	0381	0382
\$AMUR	001	46F8	0358	0368
\$AMUSE	001	46FD	0383	0384
\$AMWK	001	46F7	0346	0347
\$AMWRK	001	46FF	0384	
\$APEND	001	0040	0351	
\$BBAC1	001	0001	2000	
\$BCAA1	001	0001	2077	
\$BCACD	001	0057	2066	
\$BCACT	001	0002	2034	
\$BCADP	001	0055	2064	
\$BCANS	001	0010	2031	
\$BCASC	001	004B	2054	
\$BCASK	001	0004	2025	
\$BCASM	001	0001	2026	
\$BCBID	001	0043	2046	
\$BCCAL	001	004D	2056	
\$BCCMP	001	0056	2065	2422
\$BCCNV	001	00C0	2021	4016
\$BCCON	001	0053	2062	
\$BCCRP	001	0046	2049	
\$BCDAT	001	0051	2060	
\$BCDNE	001	0040	2043	2775 2813 4147
\$BCEOT	001	0042	2045	2815 2936 2999 3004 4372 6155 6307 6510 6576
\$BCERR	001	004F	2058	
\$BCGET	001	0008	2024	4016 4044
\$BCIGN	001	004A	2053	
\$BCINP	001	0080	2019	2829 4044 4121 4179
\$BCITB	001	0020	2022	6117 6121
\$BCLOS	001	0052	2061	
\$BCLST	001	004E	2057	
\$BCMAN	001	0020	2030	
\$BCMCN	001	0088	2028	4984 6519
\$BCMPT	001	0080	2029	
\$BCNAC	001	0049	2052	
\$BCNCN	001	004C	2055	
\$BCNDT	001	0047	2050	
\$BCNEG	001	0044	2047	2717 2828 6506
\$BCNON	001	0045	2048	
\$BCNOW	001	0004	2109	4322
\$BCOFL	001	0004	2079	
\$BCOLT	001	0048	2051	
\$BCOPN	001	0001	2035	

\$CC4#2

CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 160

SYMBOL	LEN	VALUE	DEFN	REFERENCES	SCP GENERATOR	08/08/10	PAGE 160
\$BCOUT	001	0040	2020	4028			
\$BCPLR	001	0040	2112	6129			
\$BCPOL	001	0002	2078				
\$BCPUT	001	0008	2110	4035			
\$BCRAN	001	0010	2023	4361 6121			
\$BCRCL	001	0008	2080				
\$BCREQ	001	0000	2042	4217			
\$BCRES	001	0010	2111	6266			
\$BCRLE	001	0058	2067				
\$BCRSP	001	0054	2063				
\$BCSEP	001	0001	2107	6129			
\$BCSPN	001	0002	2108	6129			
\$BCSWD	001	0080	2082				
\$BCSWI	001	0008	2032				
\$BCTIM	001	0050	2059				
\$BCTWO	001	0010	2081				
\$BCUER	001	0041	2044				
\$BCUSD	001	0004	2033				
\$BDADD	001	0012	2076				
\$BDAON	001	0001	2007				
\$BDARA	001	0043	2121				
\$BDATR	001	0003	2027	4984 6519			
\$BDATT	001	0002	2018	2829 4016* 4028* 4044* 4118 4121 4179 6117* 6121* 6127* 6569			
\$BDAT1	001	0034	2106	4035* 4322* 6128* 6129* 6266			
\$BDBKL	001	0021	2096	2978 3588 4036* 4046* 4047			
\$BDBKX	001	0025	2098	2978* 3252* 3254* 3588* 6313* 6314* 6316 6319			
\$BDCHN	001	0005	2036				
\$BDCMP	001	000E	2041	2422 2717 2744 2775 2813 2815 2828 2936 2986 3004 4147* 4217*			
\$BDCNT	001	0017	2089				
\$BDDCC	001	0015	2086				
\$BDDCH	001	0014	2083				
\$BDDED	001	0033	2105				
\$BDDEV	001	0000	2016	3621 4111 4900 4983 5112 5755 5763			
\$BDDLX	001	001D	2094				
\$BDERR	001	0044	2122	4085			
\$BDEX@	001	0048	2124				
\$BDIND	001	0015	2087	3015 4061* 6518			
\$BDINT	001	0032	2104	4148*			
\$BDIOB	001	0023	2097	4081* 4099* 4110 4314 4360 4371 6154 6304 6483 6505 6567 6570			
\$BDISA	001	0080	1997				
\$BDITB	001	0027	2099				
\$BDLID	001	0018	2091	4062*			
\$BDLST	001	0014	2085	4060* 4067*			
\$BDMRL	001	0011	2075	6299*			
\$BDNDX	001	002E	2102	4149*			
\$BDNXT	001	0007	2037				
\$BDOPC	001	000F	2068	4029* 4045* 4063 4216* 4244* 4269* 4273*			
\$BDPRM	001	002A	2100				
\$BDPSC	001	0014	2084				
\$BDRCL	001	0041	2120				
\$BDREL	001	001F	2095	3200 3217 3219 3257 4168* 4220* 4229* 4257 4277* 4283 4286* 6274* 6283* 6295 6297* 6299 6320 6326 6326* 6331* 6342			
\$BDRFT	001	003B	2116				
\$BDRID	001	0017	2088				
\$BDRLN	001	0018	2090				
\$BDRL0	001	003F	2119				

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
\$BDRVI	001	002D	2101	
\$BDSBF	001	0037	2114	
\$BDSEP	001	0035	2113	
\$BDSID	001	001A	2092	
\$BDSLNL	001	001B	2093	
\$BDSRL	001	0039	2115	
\$BDTF	001	0002	2010	
\$BDTSA	001	003D	2117	
\$BDT1A	001	0046	2123	
\$BDUPS	001	0001	2017	
\$BDWKA	001	0030	2103	2746 2768 2777 3403 3579 3735 3816 3974 3976 4082 4084 4170 4264 4323 4337 5762 6486
\$BDWKB	001	000D	2040	2736 3115 4169* 4178* 4228* 6275* 6293* 6363* 6373
\$BDWK1	001	0009	2038	
\$BDWK2	001	000B	2039	
\$BD375	001	0049	2125	
\$BENAB	001	00C0	1998	
\$BFOX	001	00FF	1999	
\$BHX0F	001	000F	1994	
\$BICMP	001	0007	1964	
\$BIFLA	001	0005	1960	
\$BIFST	001	0004	1961	
\$BIOB	001	0001	2011	
\$BIOBQ	001	0002	1962	
\$BIRVI	001	0083	1963	
\$BLIN2	001	0008	2005	
\$BLIST	001	0002	1990	
\$BLST2	001	0002	1989	
\$BOGBK	001	0081	2070	
\$BOGET	001	0080	2069	4045 4063
\$BONE	001	0001	2012	
\$BOPEB	001	0041	2072	4273
\$BOPEF	001	0042	2073	4269
\$BOPEW	001	0044	2074	4244
\$BOPUT	001	0040	2071	4029 4216
\$BPACT	001	0080	1981	
\$BPATR	001	0000	1980	
\$BPATV	001	0010	1970	
\$BPCNC	001	0004	1973	
\$BPDTF	001	0002	1983	
\$BPENA	001	0080	1987	
\$BPEND	001	00FE	1985	
\$BPEXT	001	0040	1982	
\$BPNOP	001	0000	1986	
\$BPNUM	001	0003	1984	
\$BPOLD	001	0017	1972	3819* 3825*
\$BPRES	001	0010	1974	3819 3825
\$BPRM1	001	0001	1988	
\$BPRS2	001	0002	2001	
\$BRCNT	001	0003	1993	
\$BTOSC	001	0088	2008	
\$BTRE	001	0003	2013	
\$BTREQ	001	0016	2006	
\$BTRNQ	001	0011	2009	
\$BWFG3	001	001D	1968	4324* 4345 6490 6496
\$BWK	001	0001	1967	6486* 6490 6496

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CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 162

SYMBOL	LEN	VALUE	DEFN	REFERENCES	SCP GENERATOR	08/08/10	PAGE 162
\$BWKMC	001	0059	1975	3736 3817 5764			
\$BWLGD	001	0023	1969				
\$BWRCT	001	00BA	1977	3405*			
\$BWRFT	001	0008	1971	6490 6496			
\$BWSCT	001	00B6	1976	3978*			
\$B2SEC	001	0006	2002				
\$CCEND	001	47FF	0537				
\$CCTR#	001	47E0	0525	0527			
\$CCTR@	001	47DF	0524	0525			
\$CC4#2	001	0000	0002	6790			
\$CC4BT	001	0002	2185				
\$CC4CM	001	0005	2310	2168 2600 2877			
\$CC4FR	001	0F66	5391	2169 4519 4871 4910			
\$CC4M1	001	0003	2186				
\$CC4M2	001	0004	2187				
\$CM	001	4718	0428	0430			
\$CMECB	001	4739	0466	0467 2334* 6624			
\$CMFM	001	473C	0467	0468 2315* 2328 2333* 2337* 5056* 5062* 5199* 5314* 6625			
\$CMRV2	001	4743	0473				
\$CMWK	001	4718	0427	0428			
\$COMON	001	4600	0110	0113			
\$CP	001	46C5	0290	0293 0313 0314 0315 0317 0321 0330 0332 0333 0334 0335 0338			
\$CPCFR	001	0010	0323				
\$CPCM	001	46DE	0315	4819			
\$CPCOM	001	46E3	0332				
\$CPDPG	001	0008	0324				
\$CPDTF	001	47DB	0510	0511			
\$CPD1S	001	0004	0325				
\$CPEFL	001	46E6	0334				
\$CPFLG	001	46E2	0321				
\$CPFND	001	0001	0327				
\$CPFR	001	0080	0322				
\$CPIAR	001	47D7	0508	0509			
\$CPLST	001	46CA	0293				
\$CPMSG	001	46E5	0338	0339			
\$CPOCC	001	0048	0316				
\$CPPAS	001	0002	0326				
\$CPPF9	001	46DB	0314				
\$CPPRQ	001	46E3	0330				
\$CPQ	001	46D8	0313				
\$CPRCA	001	46E8	0335				
\$CPRTC	001	46E4	0333				
\$CPUSE	001	47DC	0511	0515			
\$CPWK	001	46C5	0289	0290			
\$CPWTO	001	0000	0318				
\$CPXR1	001	47D9	0509	0510			
\$CP1ST	001	46E1	0317				
\$CSECB	001	47B7	0484	0485			
\$CSFM	001	47B4	0483	0484			
\$END1	001	46B6	0255	0266 0289 0346 0387 0427			
\$FLGA	001	462E	0143	0154			
\$FLGB	001	462F	0154	0164			
\$FLGC	001	4630	0164	0175 2591* 2716 2719* 2846* 2890* 2918* 4297* 4604* 5563* 5577* 5578* 5627* 5658* 5823*			
\$FLGD	001	47DD	0515	0524			
\$RESER	001	47B3	0479	0483			

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
#CPWTO	001	000B	0308	
#CP1ST	001	000B	0307	
#CSERP	001	47C0	0488	0489
#CSOND	001	47BA	0485	0486
#DDRUN	001	0002	0517	
#DFCT	001	466F	0218	0219
#DFFOK	001	0080	0144	
#DPEND	001	47E4	0529	0534
#DUMPQ	001	467D	0229	0230
#EPL	001	0004	0149	
#FEHLT	001	0008	0159	
#GMS	001	465E	0205	0207 5177 5592 5600
#HISTT	001	4734	0459	0461
#HITAS	001	4731	0456	0458
#INVPL	001	0008	0169	5563 5577 5658
#LAMWK	001	0009	0260	0387 0427
#LCMWK	001	002D	0262	
#LCPWK	001	0032	0259	0346 0387 0427
#LDFWK	001	000F	0258	0289 0346 0387 0427
#LSTSZ	001	46E7	0339	0340
#LTMWK	001	0018	0261	0427
#LWKWK	001	008F	0263	0266
#MATED	001	47CC	0494	0495
#MATST	001	47CB	0493	0494
#MATX3	001	47CD	0495	0502
#MRTAT	001	00E3	0650	
#MTRAC	001	0080	0165	
#NBND	001	4659	0202	0203
#NOPST	001	0004	0518	
#NTRAC	001	0020	0167	2591 2716 2719 2846 2890 2918 4297 4604
#NTRCS	001	0001	0172	
#OPEND	001	472A	0452	0453 2405 2421* 3764* 3928* 4318* 4375* 6441*
#PCTLN	001	466E	0217	0218
#PGMLD	001	00E1	0649	
#PRQIP	001	0010	0520	
#PUCNT	001	0001	0162	
#PUTTP	001	0010	0168	5578 5627 5658 5823
#RESPR	001	0004	0160	
#RSVD1	001	4672	0221	0222
#RUFAD	001	47AF	0477	0478
#RUFCL	001	472E	0454	0455
#SETID	001	4670	0219	0220
#SUALL	001	0080	0155	
#SUCMD	001	0020	0157	
#SUINT	001	0040	0156	
#TCACC	001	00E5	0651	
#TPANY	001	47A8	0283	0284
#TPBUF	001	4661	0207	0208
#TPPUT	001	47A6	0282	0283
#XDT	001	4671	0220	0221
@AERPQ	001	47E2	0527	0529
@ALOCQ	001	463B	0182	0183
@ANYTP	001	4740	0468	0469
@AVTCB	001	462D	0140	0143
@BTRAC	001	461D	0128	0129
@BUFA	001	4656	0201	0202

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
@CCPTB	001	47A4	0281	0282
@CC4FM	001	460B	0119	0120
@CC4FR	001	46B1	0250	0251
@CC4GM	001	4609	0118	0119
@CC4II	001	46B3	0251	0255
@CC4IS	001	4607	0117	0118
@CC4MX	001	4613	0123	0124
@CC4PI	001	4605	0115	
@CC4SR	001	4619	0126	0127
@CC4TA	001	4605	0116	0117
@CC4TH	001	461B	0127	0128
@CC4TI	001	4617	0125	0126
@CC4TR	001	4601	0113	0114
@CC4TX	001	4603	0114	0115 0116
@CKLST	001	4738	0463	0466 5886
@CLB#1	001	47C2	0489	0490
@CMTCB	001	4625	0136	0137
@CPDMP	001	467F	0230	0231
@CPTCB	001	462B	0139	0140 4744
@CSNRQ	001	47BC	0486	0487
@CSSTT	001	4733	0458	0459
@CSTCB	001	47BE	0487	0488
@CSXPT	001	4715	0419	
@C4TI2	001	4615	0124	0125
@DEND	001	4680	0233	0234
@DFCT	001	4651	0196	
@DFEQ	001	4643	0186	0187
@DFTCB	001	4627	0137	0138
@DNEXT	001	4682	0234	
@DSTRT	001	467E	0232	0233
@DTUBQ	001	47AD	0476	0477
@EPATR	001	4651	0195	0196 0197
@GMWTQ	001	4641	0185	0186
@HIBND	001	465D	0204	0205
@INVPL	001	4742	0469	0470 0473
@KNTUB	001	4669	0214	0215
@LCB#1	001	464D	0193	0194 2579 6423
@LOBND	001	465B	0203	0204
@L1TCB	001	46ED	0342	0343
@L2TCB	001	46EF	0343	
@MLTAD	001	4736	0461	0463
@MLTIO	001	460D	0120	0121
@MLTOP	001	460F	0121	0122
@MTRAC	001	461F	0129	0132
@NDUMP	001	4682	0231	0235
@PRLQ	001	4645	0187	0190 2455 2507 4605 4617 4619
@PTX	001	466B	0215	0216
@PTXCS	001	466D	0216	0217
@PUCNT	001	4665	0210	0213
@QTUBS	001	463F	0184	0185
@ROCAT	001	464B	0192	0193
@TALST	001	4647	0190	0191
@TAS	001	4730	0455	0456
@TCORG	001	4649	0191	0192
@TKFSB	001	4675	0223	0225
@TMECB	001	4807	0312	

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES											
@TMIOB	001	4800	0286	0312											
@TMTCB	001	4629	0138	0139											
@TNT	001	4653	0197	0198											
@TUBQ	001	464F	0194	0195											
@TUSTG	001	4667	0213	0214											
@UALFA	001	4673	0222	0223											
@UPA	001	4662	0208	0209											
@USECW	001	4611	0122	0123											
@WATSK	001	463D	0183	0184											
@XDT	001	4655	0198	0201											
@XSNT1	001	46E9	0340	0341											
@XSNT2	001	46EB	0341	0342											
@XSNT3	001	4713	0418												
ACKSD	001	0024	1833	2747*	2769*	4339	4341*								
ACTIVE	001	0010	1831												
AID	001	0000	1906	3140											
AIDCLR	001	006D	1911	3140											
AIDCRD	001	00E6	1913												
AIDENT	001	007D	1912												
AIDPF1	001	00F1	1915												
AIDTST	001	00F0	1914												
AKERR	001	0004	1834	2747	2769	4339	4341								
ALLBIT	001	00FF	0025	2547	2851	2867	4348	5645	6118	6122	6129	6576			
AMSORT	001	0002	0380												
ANY	001	0080	0073	3610											
ARR	001	0008	0047	4603	4636	4701	4970	5161	5231	5290	5353	5392	5465	5509	5524
				5562	5718	5754	5884	5966	6030	6084	6111	6179	6264	6418	
ASCCLR	001	005F	1919												
ASCENT	001	0027	1920												
A1PTRS	001	0040	0361												
A1SPLV	001	0080	0359												
A1501S	001	0004	0365												
A1741S	001	0008	0364												
BBUCKT	001	15E5	6670	6669											
BIT0	001	0080	0015	0039	0144	0155	0165	0322	0350	0359	0391	0392	0447	0523	1225
				1280	1334	1346	1402	1420	1460	1475	1485	1495	1512	1527	1557
				1685	1696	6156	6608								
BIT1	001	0040	0016	0040	0145	0156	0166	0351	0361	0394	0448	0522	1228	1267	1274
				1276	1336	1347	1404	1422	1461	1476	1486	1496	1513	1528	1558
				1686	1698	2987	2999	6609							
BIT2	001	0020	0017	0041	0146	0157	0167	0352	0396	0450	0521	1229	1273	1274	1277
				1338	1348	1406	1424	1462	1477	1487	1502	1514	1529	1687	1699
				6610											
BIT3	001	0010	0018	0147	0158	0168	0323	0353	0399	0520	1230	1339	1349	1408	1426
				1463	1478	1488	1503	1515	1530	1688	1700				
BIT4	001	0008	0019	0148	0159	0169	0324	0354	0364	0400	0519	1231	1258	1410	1428
				1465	1479	1489	1504	1516	1531	1559	1689	1701	6613		
BIT5	001	0004	0020	0149	0160	0170	0325	0355	0365	0401	0518	1232	1259	1266	1412
				1430	1466	1480	1490	1506	1521	1532	1559	1690	1703	6614	
BIT6	001	0002	0021	0150	0161	0171	0326	0356	0380	0402	0517	1233	1260	1412	1432
				1467	1481	1491	1507	1522	1533	1559	1691	1706	6615	6685	
BIT7	001	0001	0022	0151	0162	0172	0327	0403	0516	1236	1239	1261	1413	1434	1468
				1482	1492	1508	1524	1534	1559	1692	1709	4171	6683	6705	
BLANK	001	0040	6762	3228	3230										
BLANKC	001	06DE	3682												
BND2K	001	0007	6675												

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
BOVFL	001	0020	0075	
BR	001	0087	0062	
BRNOP	001	0080	0061	
BR97	001	0097	0063	
BSCA	001	0080	6763	3621 4900 4983 5112 5755 5763
BSFLGD	001	0023	1830	2778* 3581*
BSFL4D	001	0082	1836	
BSRJ2D	001	0016	1822	
CCPPL	001	0000	1189	1191 1219 1221
CCPRIB	001	0001	6748	2428 2479 2725 2795 2894 3085 3132 3274 3308 3560 3680 3992 4332 5296 5359 5517 5536 5978
CCPUT	001	15D6	6648	5799
CC4AB	001	000C	2130	
CC4A2	001	000F	2131	
CC4BA	001	0030	2146	3133
CC4BB	001	0033	2147	3309
CC4BC	001	0036	2148	
CC4BE	001	0039	2149	2895
CC4BP	001	003C	2150	3561
CC4BQ	001	003F	2151	2796
CC4BR	001	0042	2152	3086 3681
CC4B0	001	0048	2154	3275 3993
CC4B5	001	0045	2153	
CC4FM	001	4690	0242	0243
CC4FR	001	46AC	0249	0250
CC4GA	001	0012	2132	
CC4GM	001	468C	0241	0242
CC4GR	001	002D	2142	2480
CC4IS	001	4688	0240	0241
CC4MP	001	0027	2139	5979
CC4MX	001	4698	0244	0245
CC4OP	001	0015	2133	
CC4PI	001	4684	0239	
CC4PR	001	001B	2135	
CC4R1	001	0018	2134	
CC4SR	001	46A8	0248	0249
CC4S0	001	004B	2155	
CC4TA	001	4684	0238	0239 0240
CC4TD	001	001E	2136	
CC4TI	001	46A0	0246	0247
CC4TT	001	46A4	0247	0248
CC4UN	001	002A	2140	
CC4WC	001	0021	2137	
CC4WR	001	0024	2138	
CHACTV	001	129A	5932	5885* 5907*
CHBMBS	001	1283	5910	2178
CHBMHL	003	15E2	6662	2176
CHBSCA	001	126F	5902	
CHCKBS	001	1282	5908	5903
CHEND	001	128A	5924	
CHLAST	001	0020	6724	
CHLSKP	001	0080	6723	5893
CHLSTS	001	0000	6722	5889 5893 5928*
CHNODS	001	1263	5892	5890
CHNOOP	001	1296	5929	5927
CHPNTR	001	12A0	5940	5912 5933

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CHSTND	001	128A	5918	5894 5896 5904 5906
CHSTOR	001	12A6	5942	5884*
CHSTRT	001	1257	5887	
CKLAST	001	0020	1861	
CKLDTF	001	0002	1858	
CKLEN	001	0003	1859	
CKLSKP	001	0080	1860	
CKLSTS	001	0000	1857	
CMACI	001	0B38	4408	2552
CMADDQ	001	1162	5691	5670 5677
CMASCH	001	130B	6077	4068
CMATUB	001	0CFE	4807	4797
CMB#SB	001	12F5	6044	2445* 2793* 3558* 5068* 5089*
CMBBSY	001	078B	3801	3751
CMBCMP	001	020F	2811	2785 2804
CMBDEQ	001	05C3	3399	2969 3027 3036 3392
CMBDTF	001	14E3	6448	6437
CMBEG	001	0000	2163	2164
CMBEOT	001	063F	3586	3578
CMBERP	001	0608	3536	3529
CMBERR	001	022B	2824	2818
CMBFOK	001	121A	5827	5815
CMBGPG	001	0B56	4445	4431
CMBLAD	001	1379	6140	6144
CMBMCH	001	124B	5883	2419
CMBNOG	001	0AAF	4320	4312 4317
CMBNSP	001	064A	3596	3549
CMBN34	001	0524	3294	3291
CMBOPE	001	0176	2715	2444 2448 3316
CMBOWN	001	138E	6151	6142
CMBPTG	001	05FF	3527	
CMBPW	001	0662	3611	
CMBREQ	001	05FF	3526	2556
CMBSCH	001	07BA	3918	2597 2781 2803 2885 2909 3016 3428 3719
CMBSCK	001	0004	6614	6422 6449
CMBSCL	001	09BB	4208	4175
CMBSCS	001	02B1	2916	2814 2817 2820
CMBSER	001	029C	2889	2830 2835
CMBSIO	001	0A6B	4294	4201 4209 4247 4276 4284
CMBSKP	001	12C7	6028	2447 2791 2792 3556 3557 5069 5090
CMBSOP	001	0665	3618	3602 3604 3610 5606
CMBSOX	001	06E7	3692	2497 3622 3629 3634 3638 3644 3647 3654 3658 3661 3671
CMBSTP	001	0625	3576	2805
CMBSYS	001	1389	6146	6133
CMBTAC	001	06FC	3716	
CMBTAS	001	1330	6110	4033 6561
CMBTBY	001	06FC	3711	2491 2569 3703
CMBTIB	001	1592	6568	6572
CMBTST	001	134D	6120	6116
CMBTS1	001	135A	6126	6113* 6118* 6122* 6125 6125*
CMBTTT	001	1354	6123	6119
CMBTXT	001	13E4	6197	6111* 6164 6179*
CMBXIT	001	1307	6055	6030*
CMBXR2	001	1303	6053	6032*
CMBYNS	001	02A4	2892	2740
CMB0C1	001	050F	3272	

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CMB0C2	001	082C	3990	
CMB327	001	03D5	3101	3005
CMCABT	001	01C8	2754	2752
CMCFRM	001	050C	3270	3263 3267
CMCIRD	001	0D08	4817	
CMCKCN	001	002F	2332	2330
CMCKDQ	001	02E5	2946	2940
CMCKNX	001	0C09	4606	4614
CMDCHN	001	118D	5730	5722
CMDEQ	001	1170	5717	2495 3410
CMDEQR	004	1199	5735	5718*
CMDISC	001	0BEE	4556	4549
CMDOIT	001	0BA4	4492	4484
CMDQCK	001	1177	5720	5728
CMDQOK	001	1186	5726	5724
CMDTFS	001	14BB	6417	2413
CMDTFX	004	15AB	6596	6418*
CMDTII	001	0DCE	5003	5119
CMEACT	001	05F4	3425	3423
CMEBCK	001	15AB	6594	6456 6472 6485 6491 6507 6511 6577
CMECHK	001	15AB	6595	
CMECTL	001	1553	6524	6520
CMEIOB	001	158F	6566	
CMENTR	001	14C7	6424	
CMENXT	001	1575	6540	6533
CMEOWN	001	158B	6559	
CMEPRT	001	156F	6537	
CMERCI	001	1532	6499	6493 6497
CMERCL	001	1549	6517	6509
CMEREC	001	15A7	6588	6475
CMERFF	001	1529	6495	6489
CMERPC	001	12A7	5965	3542
CMERPR	004	12C3	5987	5966* 5971
CMESIJ	001	1568	6534	6530
CMESKP	001	1583	6548	6539
CMESLP	001	157C	6544	6542
CMEXID	001	1556	6526	6546
CMEXOP	001	006D	2432	
CMEXPM	001	14CB	6435	
CMEYE	003	0002	2165	
CMFABT	001	0A3C	4268	4263
CMFAKE	001	0B26	4374	4270 4343 4349
CMFAKR	001	0AD2	4338	
CMFCLN	001	0952	4146	4134
CMFEOT	001	0B1D	4370	4346 4356
CMFGET	001	086C	4043	4021
CMFGIL	001	09B1	4199	4197
CMFIGL	001	08DB	4101	4098
CMFIGR	001	08AD	4080	4064
CMFLA	001	08AA	4073	4071* 4072*
CMFLIN	001	087D	4054	4037
CMFMGG	001	00D2	2499	2483
CMFMOR	001	0916	4125	4122
CMFMPS	001	0080	6608	2311 2331 2473 2500 3944 5421
CMFMRT	001	0F55	5348	3938 4672 5172 5407 5443
CMFMRX	004	0F62	5362	5353*

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CMFMR2	001	0F59	5351	5027
CMFMR5	001	0F5D	5357	
CMFMUL	001	091E	4128	4142
CMFORB	001	083B	4005	2979 3111 3135 3176 3375 3383 3584 3590 3972
CMFPEW	001	09EF	4239	4232
CMFPT0	001	0A0A	4251	4238 4243
CMFRMN	001	0090	2454	2406
CMFRPL	001	0FC6	5440	5429
CMFRPS	001	00A1	2472	2456
CMFRRT	004	0FD1	5447	5392*
CMFRTN	001	0B31	4377	4267 4368 4373
CMFRXT	001	0FCD	5445	5397 5425 5427 5434
CMFRX2	004	0FCD	5446	5393*
CMFVET	001	0A24	4260	4219
CMFVFY	001	0965	4159	4010
CMFVMD	001	09E0	4230	4227
CMFVPB	001	0A42	4272	4258
CMFVPM	001	0A45	4274	4249
CMFVPT	001	09BE	4215	4174 4180
CMFVRC	001	0A53	4280	4254
CMFVSM	001	0A68	4287	4278 4285
CMFVUR	001	098A	4177	4162
CMGBFX	001	0ED3	5192	5161* 5170
CMGBUF	001	0E8E	5160	6359
CMGIAL	001	147C	6329	6321
CMGIBK	001	142C	6301	6292
CMGICB	001	1496	6356	6343
CMGIDX	001	1459	6315	6306
CMGIGM	001	0EAE	5176	5164
CMGII@	001	1480	6337	6303 6323 6327
CMGIMX	001	1428	6298	6296
CMGINL	001	13E8	6263	4206 6589
CMGINO	001	0ED7	5196	5178 5182
CMGIRL	001	1489	6341	6284 6311
CMGISR	001	1491	6349	6340
CMGIUT	001	140F	6290	6277
CMGIXT	001	14B7	6374	6264* 6268 6312 6317 6370
CMGI00	001	1475	6325	6309
CMGMAV	001	0E27	5077	5047
CMGMER	001	0F39	5308	5298
CMGMOV	001	14B3	6372	6366
CMGMPT	001	0FD5	5464	3787 5609 5824
CMGMP4	001	101D	5489	
CMGMRT	001	0F12	5289	5138 5180 5469 5635
CMGMR2	004	0F31	5304	5291* 5315
CMGMR9	004	0F35	5305	5290*
CMGNSB	001	0E43	5092	5088
CMGOFB	001	044B	3175	3170
CMGPST	001	07B6	3827	3815
CMGSBN	001	0E1C	5067	5012
CMGTRA	001	0B91	4473	4464
CMHBOK	001	10F8	5621	5611
CMIALL	001	0DAD	4987	4994
CMIBOK	001	0F97	5414	5412
CMIIND	002	15DF	6659	3060* 3070 4999 4999* 5095 5103* 5131 5137 5144
CMINOR	001	0DC5	4996	4985 4989

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CMISTS	003	0DB8	4991	4990*
CMIVGM	001	0D8F	4968	3730 3771 5847
CMIVGX	004	0E8A	5147	4970*
CMIV40	001	0E52	5108	5097
CMIV60	001	0E68	5125	5114 5117
CMIV80	001	0E8A	5146	5132
CMJTFR	001	0D87	4909	4722 4753
CMLPL	002	15D5	6646	5079* 5852
CMMKRT	004	0D8B	4912	4701* 4712 4771 4823 4880 4890 4903 4907
CMMVDT	001	1009	5483	5477
CMMVEX	004	103E	5520	5509*
CMMVRT	001	1025	5508	4503 4863 5490
CMNCCT	001	05DC	3408	3402
CMNDCR	001	0E1C	5063	5059
CMNFAK	001	0AE1	4344	4340
CMNFOF	001	0B6C	4452	4450
CMNIDA	001	07B3	3824	3818
CMNMAP	001	0B83	4461	
CMNNGT	001	0775	3775	3760
CMNOBK	001	0BB8	4509	4495
CMNOBY	001	07FC	3963	3768 3774 3783 3785 3789
CMNODA	001	07B6	3826	3821 3823
CMNOID	001	072D	3738	3734
CMNOKN	001	0BCC	4516	4514
CMNOPR	001	0B45	4422	4419
CMNOSO	001	0E43	5094	
CMNOST	001	0008	6613	
CMNOWN	001	13A6	6162	6160
CMNOZ0	001	0042	2338	2336
CMNPLQ	001	0760	3766	3763
CMNROP	001	07E0	3940	3934
CMNRX1	001	0358	3017	3014
CMNT56	001	0071	2435	2423
CMNWAT	001	0018	2316	2314
CMNWFM	001	0C59	4669	4645 4648
CMNWKA	001	08C2	4089	4083
CMNWK2	001	081C	3979	3975
CMNWPL	002	15D3	6645	2494* 2519* 4547
CMNWRK	001	012E	2562	2508
CMNXPL	001	0E5B	5115	5005 5071
CMNXPR	001	0B12	4365	4363
CMNXTP	001	1223	5832	5813 5829
CMNYGM	001	0766	3769	
CMOCHK	001	12E0	6037	6048
CMOCPL	001	15CA	6640	
CMOEXT	001	12FF	6050	6039
CMONXT	001	12F8	6046	6043
CMON1B	001	12FF	6051	6031*
CMOPND	001	0042	2404	2433 3427 4570 6442
CMOPNT	001	004A	2412	
CMOSTS	003	12EF	6042	6040*
CMPAII	001	0BD7	4543	3739 3803 3828 3946 4379 5200 5696 5771 5850 5983
CMPBKL	001	031E	2976	2937
CMPBMP	001	031E	2977	2776
CMPCHK	001	1317	6085	6092
CMPCIM	001	0C9F	4740	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CMPFND	001	132D	6094	6087
CMPLA	001	1323	6089	6088*
CMPLCK	001	0F9A	5416	5399
CMPLGT	001	1111	5634	5576
CMPMPS	001	0FA8	5422	5420
CMPNWF	001	10EF	5615	
CMPNWG	001	10E8	5608	5593 5601
CMPNWP	001	10C8	5598	5588
CMPNWS	001	10F2	5617	5594 5603
CMPNXT	001	1314	6083	6079
CMPLS	001	07F4	3954	3942
CMPOST	001	0C67	4700	3413
CMPRLS	001	0BFD	4602	2461 2513
CMPRLX	004	0C2A	4620	4603* 4610
CMPSAV	001	0326	2985	2935
CMPSCH	001	1311	6081	
CMPSFM	001	0D62	4887	4705 4833
CMPSII	001	0CBA	4758	
CMPSOE	001	0D57	4875	4838
CMPSPL	001	0D50	4870	4746 4849
CMPSTB	001	0D17	4829	4812
CMPTEX	004	1021	5492	5465* 5470
CMPTGT	001	111E	5642	5636
CMPTG1	003	1133	5650	5647
CMPTRM	001	0CAE	4750	4736
CMQINQ	001	0CC4	4767	4738 4745
CMQIT	001	06E7	3698	
CMQLOP	003	0CF1	4796	4803
CMQOP	001	113A	5657	5568 5571 5619 5623 5626 5640
CMQRET	004	116C	5697	5562*
CMQUE	001	1074	5561	3699
CMRABT	001	01DD	2774	2764
CMRACT	001	05BA	3390	3386
CMRAID	001	040B	3137	3130
CMRBMV	001	045E	3194	
CMRCAN	001	03BC	3083	3073
CMRCLR	001	042B	3156	3151
CMRCMD	001	044F	3185	3116 3126 3157
CMRCRC	001	03DE	3106	3173
CMRDAT	001	045E	3192	3190
CMRDCK	001	11CC	5779	5839
CMRDEQ	001	00E1	2517	2466
CMRDPL	001	0C22	4616	4613
CMRECX	001	03D2	3094	3063 3087
CMREDO	001	05E4	3419	2956 3348 3359 3686
CMREFH	001	0831	3994	
CMREJC	001	0376	3053	3002
CMREOT	001	03E4	3109	
CMREQ	001	00D6	2506	2474
CMREQR	001	038E	3065	3091
CMRERP	001	030E	2965	2958 2961
CMRETC	001	05A4	3381	2907 3260 3277 3355 3372 5794
CMREXT	001	035B	3024	2970
CMRFCK	002	15BB	6618	3264* 3265* 3266 3268
CMRNAR	001	01EA	2779	2770
CMRNDQ	001	0115	2546	2538

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CMRNEB	001	03FF	3129	
CMROPE	001	07C2	3927	
CMRPLS	001	0411	3147	
CMRQBF	001	0BF5	4567	3567 4551
CMRSCL	001	0100	2533	2527
CMRSEN	001	01AD	2742	2735
CMRSEP	001	01BC	2748	2745
CMRSLN	001	0040	6609	4972 5078 5849
CMRSTS	001	03FA	3127	
CMRUCX	001	0498	3225	3218
CMRUPC	001	04A4	3231	3229
CMRUPX	001	049B	3227	3234
CMRXER	001	11F7	5801	5798
CMRXE1	001	11E9	5795	5786
CMRXPT	001	11FD	5808	
CMRZRO	001	03C4	3089	3068 3071 3075 3077 3079
CMR327	001	03EB	3113	3104
CMSAID	001	040E	3139	
CMSBFL	001	04DA	3256	3246 3251
CMSBLK	001	04D2	3253	3249
CMSCHO	001	1240	5854	5800 5830
CMSDTF	002	15CD	6642	2440* 2487* 2537* 2568* 2589* 2874 3092 3704 3717 3919 3964 4971 5011 5035 5174 5312 5604 5659 5734 6426*
CMSDTX	001	0AC1	4327	4303 4307
CMSETL	001	04B3	3241	3206 3209 3212
CMSEVN	002	15BD	6619	3265
CMSPHY	001	15DB	6656	3259 3987 4095 4225 6185*
CMSPL	002	15CB	6641	2488* 2518* 2731* 2812* 3066 3148 3637 3729* 3732 3770* 3773 4458 4510 4661 4822 4879 4888 5565 5651* 5721 5792* 5855*
CMSPSI	001	0002	6615	2311 2944 4760
CMSRPL	001	119D	5753	3955
CMSRP1	001	11AA	5758	5756
CMSRP2	001	11C9	5772	5760
CMSRP3	001	11C5	5769	5765 5767
CMSRRT	004	1247	5857	5754*
CMSTOR	001	0EE5	5230	5040
CMSTOX	004	0F0E	5250	5231* 5239
CMSTOY	001	0F09	5248	5243
CMSTPX	001	01F2	2783	2757
CMSTUS	002	15F3	6680	2737 3128
CMSUSR	001	0EFE	5241	5237
CMSWIT	001	15B5	6607	2311* 2331* 2473 2496* 2500* 2554* 2944* 3685* 3944 4521* 4544 4568* 4760 4972* 5078* 5421* 5849 6422* 6449*
CMSZND	001	0DF5	5039	5020
CMTASV	001	13AD	6178	3623 3961 6462 6554
CMTBQD	001	0D02	4809	4790
CMTMRS	001	0155	2588	2583
CMTOPT	001	06D3	3669	3625* 3626* 3627
CMTOP2	003	073D	3750	3627*
CMTPLQ	001	0731	3745	3721
CMTPRQ	001	0020	6610	2496 2554 3685 4521 4544 4568
CMTQND	001	1155	5675	5665 5687
CMTRAC	001	0184	2720	2718
CMTRCE	001	1042	5523	2427 2724 4331
CMTREJ	001	06D9	3677	
CMTRGT	001	0AC5	4330	4326

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
CMTROF	001	0A75	4298	4296
CMTRYC	001	0792	3809	3723 3737
CMTR03	001	1051	5526	5524* 5525* 5528* 5540
CMTR05	001	1066	5532	5529*
CMTR09	001	106F	5538	5527*
CMTR20	001	1070	5539	5534
CMTSGT	001	0D27	4844	4761
CMTSRQ	001	0BF9	4569	4545
CMTSRS	001	1230	5846	5806 5834
CMTSX1	001	13E0	6195	6180* 6188 6193
CMTSYS	001	13D1	6190	6186
CMTUBC	001	0CEE	4794	4783
CMWAIT	001	016E	2598	2586
CMWEND	001	0517	3288	2923
CMWEOT	001	0557	3329	3327
CMWETX	001	0588	3365	3331
CMWOTR	001	0152	2584	
CMWPGE	001	0C60	4674	4662
CMWPGX	001	057B	3350	3346
CMWPGY	001	0C2E	4635	3357
CMWPSV	004	0C63	4676	4636*
CMWRVI	001	054B	3322	3299
CMWSET	001	059D	3373	3367 3370
CMWTRC	001	0548	3318	3301
CMWTST	001	0145	2575	2565
CMWTS1	001	0149	2580	
CMWXLT	001	083B	3999	3989 3996
CMYSAS	001	01A6	2738	
COPY	001	00F7	1881	
CORCNT	001	47AB	0285	0476 2313 2329 5061* 5310* 5419
CPISNW	001	0001	0151	
CPLPWD	001	4676	0225	0226
CPPSWD	001	467C	0226	0229 0232
CPSHD	001	0002	0150	
CPSHDP	001	0010	0158	
CPSHUT	001	0010	0147	
CPSOB1	001	0040	0145	
CPSOB2	001	0020	0146	
CPSU	001	0008	0148	
CPURGE	001	0059	6781	2744 3580
CS#MVL	001	47E6	0534	
CS#TRL	001	0000	0535	
CSPKF1	001	47D1	0503	0504
CSPKF2	001	47D5	0505	0508
CSPKR1	001	47CF	0502	0503
CSPKR2	001	47D3	0504	0505
CTBTAS	001	0005	1869	
CTFORB	001	0006	1870	
CTREJC	001	0003	1867	
CTRLB	001	0007	1871	
CTSTOR	001	0004	1868	
CTTASV	001	0001	1866	
CU	001	0000	1903	
CURSOR	001	0004	1922	
C4TI2	001	469C	0245	0246
DA	001	0001	1904	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
DCOUNT	001	007B	1826	4087 4087* 4266*
DELAY	001	0002	1800	
DMELEN	001	0006	6704	
DONE	001	0040	6764	4120
DOVFL	001	0008	0077	
DTF	001	0002	6708	2422 2425 2426 2441 2442 2443 2487 2536* 2537 2540 2566* 2568 2579* 2581 2582 2717 2730 2733 2736 2739 2743 2744 2746 2749 2753 2756 2763 2768 2775 2777 2780 2780 2784 2813 2815 2816 2819 2828 2829 2834 2843 2843 2875 2919 2934 2936 2941 2942 2952 2953 2953 2962* 2963 2967* 2968 2978 2978 2986 3000 3001 3004 3011 3012 3012 3015 3015 3025 3035* 3054 3059 3060 3064 3092* 3093 3107 3110 3115 3125 3154* 3166 3186 3188 3191 3200 3216 3217 3219 3219 3233 3235 3243 3245 3252 3254 3257 3271* 3295 3297 3298 3323 3325 3330 3337 3337 3340* 3374 3382 3389* 3391 3393 3403 3407* 3421* 3426 3577 3579 3587 3588 3588 3601* 3621 3625 3628 3633 3636 3652 3655 3656 3664* 3704* 3705 3717* 3718 3720 3735 3746 3749* 3758 3761 3762 3765 3802 3813 3814 3816 3820 3919* 3926 3926 3928 3929 3933 3935 3936 3941 3943 3945 3964* 3965 3974 3976 3981* 3997 3997 4009 4016 4017 4018 4027 4028 4029 4035 4036 4036 4044 4045 4046 4046 4047 4047 4048 4060 4060 4061 4061 4062 4062 4063 4065 4066 4067 4070 4074 4081 4081 4082 4084 4085 4090 4099 4100 4100 4102 4104 4110 4111 4112 4114 4118 4121 4133 4141* 4147 4148 4148 4149 4152 4160 4161 4168 4169 4170 4172 4173 4178 4179 4194* 4198 4200 4216 4217 4218 4220 4228 4228 4229 4229 4242 4244 4245 4257 4259 4261 4262 4264 4269 4273 4275 4277 4277 4283 4286 4288 4295 4300 4301 4302 4304 4306 4314 4316 4319 4321 4322 4323 4325 4336 4337 4342 4347 4348 4360 4366 4371 4376 4378 4899* 4900 4902 4905 4971* 4977 4983 4984 4986 4997 5011* 5019 5026 5035* 5036 5057 5086 5087 5112 5142 5143 5144 5163 5169 5171 5174* 5175 5184 5185 5186 5198 5312* 5313 5410* 5411 5413 5604* 5719 5734* 5755 5757 5762 5763 5766 5888* 5891 5895 5905 5911 5925* 5926 5930 5934 5941* 6034* 6035 6036 6041 6078 6082 6084 6086 6095 6114 6117 6121 6127 6128 6129 6130 6138 6139 6141 6143 6147 6154 6157 6158 6163 6265 6266 6267 6274 6275 6283 6293 6293 6295 6297 6299 6299 6304 6313 6314 6316 6318 6319 6319 6320 6320 6322 6326 6326 6331 6331 6338 6342 6363 6363 6364 6373 6423* 6426 6436 6439 6440 6455 6460 6469 6471 6474 6483 6486 6487 6492 6498 6505 6508 6518 6518 6519 6525 6527 6536 6538 6550 6550 6567 6569 6570
DTFADR	001	0002	6715	5888 5925 5941
DTFATR	001	0003	6729	5895
DTFCMP	001	000E	6732	4321* 5891* 5905 5911 5926 5930* 5934*
DTFDEV	001	0000	6728	
DUP	001	001C	1891	
ECBLST	001	15BE	6623	2317
EQ	001	0001	0080	3610
ERSUPT	001	006F	1883	
ERSWRT	001	00F5	1884	
ERTIME	001	4744	0470	
ESC	001	0027	1880	
ETBRCV	001	0001	1837	
EUA	001	0012	1892	
FALSE	001	0010	0076	3610
FC	001	00FC	6779	
FEHLT@	001	4784	0271	0272

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
FILEAC	001	0002	6730	5895
FILOPN	001	0001	6731	5895
FIRST	001	0004	1799	4151 6484
FIVE	002	15E7	6672	
FLSNEQ	001	0096	6750	2830 3946 4258 4317
FLSNLO	001	0095	6751	2969
FLSOEQ	001	0091	6752	2330 3644 4284 5420
FLSOHI	001	0094	6753	2735 3260 3989 4098 4227 4849
FM	001	001E	1893	
FMRIB	001	0004	6743	5360
FNDEOT	002	15E4	6669	4169
FORMTL	001	0016	1954	6679
FWDABT	001	0004	1832	2778 3581
F3AUTO	001	0001	1827	
F3MOVE	001	0004	1828	4324 4345
GMADDR	001	0001	6701	5142 5184 5302 5484 5643 6702
GMCCP	001	0000	6700	6701
GMFAIL	002	15B4	6606	5311
GMLIST	001	15C6	6633	5137* 5142 5179* 5184 5292 5303 5466* 5467* 5484 5573* 5584* 5585* 5592 5599* 5600 5633* 5643
GMRIB	001	0003	6742	5297
GMSIZE	001	0003	6702	5137* 5179* 5303 5303* 5466* 5467* 5573* 5584* 5585* 5592 5599* 5600 5633*
HEX512	001	0002	6707	
HI	001	0004	0078	3610
IAR	001	0010	0048	5540* 6095*
IBX	001	0002	6774	4135* 4136 4137 4138 4139 4140
IC	001	0013	1890	
INACTV	001	0057	6735	5930
INTIOB	001	0020	1829	
INTNSP	001	0002	0171	
INTPNO	001	0004	0170	
IOB	001	0001	6775	3582* 3583 4110* 4111 4112 4113 4113 4114 4115 4116 4116 4117 4118 4119 4120 4123 4124 4126 4126 4127 4127 4129 4129 4130 4131 4131 4132 4132 4133 4135 4136 4137 4138 4139 4140* 4141 4150 4150* 4151 4360* 4361 4371* 4372 6304* 6305 6307 6313 6316 6318 6483* 6484 6505* 6506 6510 6567* 6569 6570 6571 6571* 6576
IOBCAR	001	000E	1807	1808 6316 6318
IOBCMP	001	0007	1802	1804 4120* 4123* 4315 4372 6155 6156 6305 6307 6506 6510 6576
IOBDAT	001	0009	1804	1805 4116* 4117* 4126 4138*
IOBDBL	001	0004	1796	1797 4112* 4127 4132
IOBDBN	001	0018	1813	1814 4129* 4130* 4131 4138
IOBDTF	001	0014	1810	1811 1812 1815 4114* 4136 4136 4136* 4141
IOBERR	001	000C	1806	1807 4115*
IOBFLA	001	0005	1797	1801 3583* 4119* 4124* 4151* 6484
IOBFLG	001	0006	1801	1802 4118* 4361 6569*
IOBL	001	0015	1815	6676 6677
IOBLEN	002	15ED	6676	4117 4130
IOBMSG	001	0016	1811	
IOBNEX	001	0016	1812	1813 4126* 4127* 4129 4135 4139*
IOBNXT	001	0001	1794	1795 4113* 4137* 4150 6570 6571
IOBQ	001	0002	1795	1796 4111*
IOBSAR	001	0012	1809	1810
IOBSNS	001	000B	1805	1806
IOBTAR	001	0010	1808	1809 6313
IOB2NX	001	001A	1814	4131* 4132* 4133 4139

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
JF2SAR	001	0020	1823	
JF2SR2	001	0010	1838	
KNPL	001	476C	0267	0270
KNTUB	001	4745	0266	0267
LCB\$LO	001	005E	1652	1653 4148
LCBABT	001	0008	1644	2756 4160 4261 6455
LCBACT	001	0020	1642	2582 3391 3426 3628 3718 4009 4336 5087 6157
LCBADJ	001	0058	1649	1650 3997* 4100 4229
LCBADL	001	007E	1735	1736 4066 4070* 4071
LCBADN	001	0088	1736	1745
LCBATA	001	0069	1662	1667
LCBATC	001	007B	1718	1720
LCBATL	001	005A	1650	1651
LCBATO	001	0010	1688	
LCBATR	001	0070	1694	1711 2581 2875* 3943* 4378* 5057* 5198* 5313* 5660 5661* 5757*
LCBAT1	001	0055	1630	1639 2784 2819 2934 2941* 2952 3011 3059* 3110* 3166* 3191* 3382 3393* 3655 3746 3758* 3761 3762* 3813 3814* 4161 4306 5766 6267 6436 6439* 6508
LCBAT2	001	0056	1639	1649 2443 2582 2756 2780 2780* 2816 2843 2843* 2953 2953* 3000 3001* 3012 3012* 3125 3243 3245* 3297 3298* 3330 3337 3337* 3374* 3391 3426 3587* 3628 3633 3705* 3718 3720 3802 4009 4027* 4048* 4160 4200 4218 4245* 4259* 4261 4288* 4301* 4302 4304* 4336* 5086 5087 6157 6322* 6455 6474 6487 6492* 6498*
LCBAT3	001	006F	1684	2733 2743* 3941
LCBBFL	001	0072	1711	1712 4046
LCBBLN	001	0089	1745	
LCBBND	001	0062	1654	1655 4133
LCBBYP	001	0008	1689	
LCBCCP	001	0065	1659	1660
LCBCHN	001	0068	1661	1662
LCBCRI	001	0080	1631	2784 2819 3813 6508
LCBDEQ	001	0004	1635	2941 2952 3110 3191
LCBDFB	001	0001	1665	
LCBDFF	001	0002	1664	
LCBDTR	001	006B	1668	1672
LCBELC	001	006A	1667	1668
LCBENB	001	0020	1687	
LCBEOT	001	0002	1636	2934 3110 3166 3191 3382 4161 4306 6267
LCBERP	001	0040	1726	2919 2942 2968 4017 4902 4905
LCBGMN	001	0020	1699	5057 5198 5313
LCBIBA	001	0078	1715	1716 2963* 3186* 3933 3936 3937* 5019 5026 5036* 5142* 5143* 5163 5171 5175* 5184* 5185* 5411 5413* 6293 6363
LCBIBL	001	0076	1713	1715 5144* 5169 5186*
LCBID#	001	0050	1624	1625 4065* 6035* 6041 6086 6518* 6536 6550
LCBIGN	001	0080	1663	
LCBINT	001	0010	1633	3761 3762 5766 6439
LCBITB	001	0080	1685	
LCBKLC	001	0064	1655	4036 4047* 4100* 4102 4275 4277 6138* 6143* 6147*
LCBLCE	001	006C	1672	1674 1676
LCBLID	001	006D	1676	1677 3015* 4061 4062 6550*
LCBLLE	001	006E	1677	1682
LCBMIL	001	0081	1741	1743
LCBMR@	001	0083	1743	
LCBMRL	001	007F	1740	1741
LCBMVD	001	0080	1725	4347 6469 6471
LCBNIT	001	0080	1696	

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
MVLTOA	001	0003	1772	1773 4456* 4861* 5486*
MVLTOL	001	0001	1771	1772 4446* 4857* 5487*
MVLTYP	001	0008	1775	1782 4496* 4856* 5474* 5478*
MVRIB	001	0002	6741	5518
NC@NEW	001	0009	1018	1020
NCAEND	001	0065	1156	
NCAFML	001	000D	1041	1042
NCC	001	0000	1013	1014
NCCCP	001	0043	1174	
NCCECB	001	0048	1177	
NCCMTQ	001	002B	1095	1097
NCCNFG	001	0049	1141	1142
NCCONF	001	002F	1098	1110
NCDATE	001	001B	1050	1051
NCDENT	001	0041	1173	
NCDSKQ	001	0021	1090	1091
NCDSK5	001	0023	1091	1092
NCDSP1	001	000A	1020	1027 5531
NCDSP2	001	000B	1027	1036
NCENTR	001	0004	1163	
NCETQ@	001	0029	1094	1095
NCEXTR	001	0034	1113	1114
NCHIMG	001	0700	1178	
NCL2PR	001	00C0	1182	
NCMPLC	001	0063	1154	1155
NCMPSZ	001	0062	1153	1154
NCMSVA	001	001A	1165	
NCMVT1	001	0037	1136	1137
NCMVT2	001	003B	1137	1138
NCMVT3	001	003F	1138	1139
NCMVT4	001	0043	1139	1140
NCOLIB	001	0015	1049	1050
NCPCHK	001	0100	1180	
NCPENT	001	003F	1172	
NCPFKT	001	0061	1152	1153
NCPL1	001	0001	1014	1015
NCPL2	001	0003	1015	1016
NCPRTB	001	0048	1140	1141
NCRCSS	001	002E	1097	1098
NCRQE	001	0033	1112	1113
NCSBUF	001	077C	1179	
NCSCH	001	001F	1085	1090
NCSCH1	001	001C	1051	1066
NCSCH3	001	0030	1110	1111
NCSCH4	001	0031	1111	1112
NCSGEN	001	000C	1036	1041
NCSIPT	001	005B	1148	1149
NCSLOG	001	0010	1042	1047
NCSMV1	001	001D	1066	1076
NCSMV2	001	001E	1076	1085
NCSMV3	001	0035	1114	1125
NCSMV4	001	0036	1125	1136
NCSPCH	001	005D	1150	1151
NCSPRT	001	005C	1149	1150
NCSPVN	001	005F	1151	1152
NCSVCE	001	0036	1170	

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
NCSVCJ	001	0032	1169	
NCSWRK	001	0012	1047	1048
NCSYS@	001	0011	1164	5530
NCSYSQ	001	0013	1048	1049
NCTA@	001	0800	1181	
NCTALL	001	0010	1024	5531
NCTAPQ	001	0025	1092	1093
NCTCB	001	0005	1016	1017
NCTCB@	001	002E	1167	
NCTCCP	001	0020	1023	5531
NCTERM	001	0031	1168	
NCTMRQ	001	0065	1155	1156
NCTRAC	001	002A	1166	
NCTRAP	001	003B	1171	
NCTRCA	001	0080	1021	5531
NCTRCS	001	0040	1022	
NCTRDK	001	0008	1025	
NCURQ	001	0027	1093	1094
NCUTL1	001	005A	1142	1148
NCXTAB	001	0007	1017	1018
NCXTB@	001	0045	1175	
NCXTE@	001	0047	1176	
NEXT	001	0003	6717	
NOBIT	001	0000	0024	2313 2329 2405 2455 2507 2563 2567 2599 2963 3034 3090 3164 3186 3767 3929 3933 3937 3945 3974 4082 4265 4342 4612 4675 4769 4780 4782 4796 5019 5036 5116 5163 5175 5293 5398 5413 5415 5419 5431 5474 5676 5759 5814 5833 6541
NOBSCA	001	0000	6718	5903
NOCOMP	001	0056	6734	5934
NOMLTA	001	0000	6719	
NONE	001	0000	0074	
NOOP	001	0080	0059	5907
NOP	001	0007	0058	
NPATTR	001	0083	0806	0808
NPBEG	001	0071	0795	0796
NPBEGL	001	0076	0797	0798
NPBPSD	001	0092	0860	0870
NPCYL	001	007A	0799	0800
NPDATE	001	0089	0808	0809
NPDTF@	001	006E	0794	0795
NPECOM	001	00B2	1005	
NPEND	001	0074	0796	0797
NPEOJ	001	006B	0777	0786
NPEOJ@	001	002A	0785	
NPHALT	001	0052	0762	0773
NPJOB	001	005A	0773	0774
NPLEVL	001	0090	0858	
NPLNK@	001	009F	0962	0964
NPLPSZ	001	0050	0760	0761
NPMANT	001	009B	0950	0960
NPMPFL	001	009E	0961	0962
NPNAME	001	0068	0775	0776
NPOBJQ	001	0091	0859	0860
NPOCAF	001	00B0	1002	1003
NPOLIB	001	007C	0800	0801
NPORLF	001	007E	0801	0802

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SYMBOL	LEN	VALUE	DEFN	REFERENCES											
NPPRTZ	001	004F	0759	0760											
NPQ	001	0081	0804	0805											
NPRLF	001	0078	0798	0799											
NPRPSZ	001	0051	0761	0762											
NPSCHA	001	0099	0929	0939											
NPSCHB	001	009A	0939	0950											
NPSCHC	001	00A6	0997	0998											
NPSCHD	001	00A8	0998	0999											
NPSCHE	001	00AA	0999	1000											
NPSCHF	001	00AC	1000	1001											
NPSCHG	001	00AE	1001	1002											
NPSCH1	001	008E	0822	0832											
NPSCH2	001	008F	0832	0844											
NPSCH3	001	0090	0844	0858	0859										
NPSCH4	001	0093	0870	0882											
NPSCH5	001	0094	0882	0893											
NPSCH6	001	0095	0893	0907											
NPSCH7	001	0096	0907	0917											
NPSCH8	001	0097	0917	0927											
NPSCH9	001	0098	0927	0929											
NPSPCM	001	006A	0776	0777											
NPSPFL	001	00B2	1004	1005											
NPSPLZ	001	00B1	1003	1004											
NPSPOL	001	006C	0786	0794											
NPSRAA	001	009D	0960	0961											
NPSTEP	001	0062	0774	0775											
NPSTP#	001	008A	0809	0810											
NPSYSI	001	008D	0810	0822											
NPSYSP	001	00A1	0971	0975											
NPXT	001	0080	0802	0804											
NPUNCH	001	00A0	0964	0971											
NPUPSI	001	0082	0805	0806											
NPUTIL	001	00A2	0975	0981											
NPUTL1	001	00A3	0981	0991											
NPUTL2	001	00A4	0991	0997											
NSECS	001	0007	6782												
OLTLNG	002	15E9	6673												
ONETIM	001	00FE	1850	4074											
OP\$SYS	001	0080	1227	3026	3076	3165	3189	3204	3208	3242	3258	3296	3608	3643	3660
				4721	4734	4770	4811	4846	4906	5242	5394	5433	5476	5569	5574
				5586	5602	5624	6182	6339							
OPACC	001	0000	6733	4321	5891	5905	5911	5926							
OPACI	001	0004	1266	1267	1268	2550									
OPACQ	001	0009	1272												
OPANW	001	0044	1267												
OPAQG	001	0069	1274												
OPBLK	001	0020	1251												
OPBNOP	001	0010	1339	4710											
OPCMDT	001	0029	1273												
OPCOPY	001	0040	1253												
OPDISC	001	0020	1229	4548											
OPDLY	001	0001	1239												
OPDMY	001	003D	1279												
OPEATT	001	470D	0423	0424											
OPEAU	001	0050	1254												
OPEOL	001	0001	1236												

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CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 182

OPGET	001	0001	1261	1264	1265	1269	1272	1273	1274	1279	2523	2957	3354	3371	3385
				3401	3528	3535	3759	3971	4019	4231	4305	4642	4743	4845	5004
				6115	6367	6531									
OPGETM	001	0080	1334	2490	3733	5058	5060	5081	5197	5309	5695	5810	5828		
OPGETQ	001	0040	1336	2489	2490	5616	5639	5695							
OPGONE	001	0008	6720	5889	5928										
OPGTA	001	0008	1271												
OPINV	001	0005	1269	3074	3642	3652	4733	4759	4889	5428	5570	5575	5587	5622	5625
				5646											
OPJRSH	001	0080	1280												
OPKPL	001	0010	1247												
OPLINE	001	0010	1250	1265											
OPLIST	001	0008	1231												
OPLSNS	001	0040	1347	2939	3061	3149	3150	3422	4982	5113	5236	5805	6183	6276	6365
OPMSG	001	0030	1252	1278	1279	3078	3368	3609	3645	3657	4233	4253	4255		
OPNOW	001	0004	1259	1269	1270	1279	3072	3612	3626	3784	4550	4644	4647	4655	5396
				5424	5426	5567	5605	5618							
OPNPST	001	0020	1338												
OPOLT	001	0040	1228	2551											
OPOPTN	001	0010	1246	1268											
OPORDR	001	00F0	1256	3369	4196	4234	4256								
OPPCR	001	003A	1278												
OPPNW	001	0006	1270	3603	3645	3646	3657	4704							
OPPRT	001	0010	1230												
OPPTG	001	0003	1264												
OPPURG	001	0013	1265												
OPPUT	001	0002	1260	1264	1265	1270	1275	1276	1277	1278	2465	2751	2763	2922	3528
				3577	3702	3722	4096	4173	4262	4295	4608	4641	5395	5418	5587
				5622	5811	5969	6470								
OPREL	001	000A	1275												
OPREQR	001	0080	1225	1227											
OPREFSH	001	0080	1346	3061	3167	3344	3345	3659	3995	5797	6183				
OPRTC	001	004A	1276												
OPRUF	001	0070	1255	3369	4234	4256									
OPRVI	001	0010	1249	4195	4196										
OPSATT	001	470B	0422	0423											
OPSEG#	001	470E	0424												
OPSHQ	001	0000	1263												
OPSOL	001	0002	1233												
OPSTA	001	0010	1248												
OPSTAT	001	0008	1258	1271	1272	1273	1274	1275	1276	1277	1278	1279			
OPSTCM	001	0010	1349	6528											
OPSTD	001	0000	1245												
OPSTOP	001	0004	1232	2525	2938	3548	4609	4901	5784	5970	6532				
OPTCHN	001	002A	1277												
OPUSER	001	0020	1348	3366	3988	4097	4226	4246	4252	6131	6181	6194			
OPWAIT	001	0014	1268												
PL	001	0001	6709	2426*	2442*	2465	2488	2489	2490	2494	2518	2519	2520	2521	2521
				2522	2523	2525	2547	2548	2548	2550	2551	2730*	2731	2732	2739*
				2749*	2751	2812	2832	2844	2922	2938	2939	2945	2954	2957	2964
				2986	2987	2999	3003	3025*	3026	3032	3032	3033	3034	3054*	3061
				3064*	3066	3067	3067*	3069	3072	3074	3076	3078	3090	3093*	3095
				3107*	3108	3148*	3149	3150	3152	3155	3155	3164	3165	3167	3168
				3168	3169	3188*	3189	3201	3202	3203	3204	3208	3216	3217	3226
				3235*	3242	3250	3252	3255	3257	3258	3261	3266	3268	3269	3289
				3295*	3296	3300	3320	3328	3338	3344	3345	3347	3347	3354	3366

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SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 183

				3368	3369	3371	3385	3387	3401	3404	3406	3420	3422	3424	3424
				3528	3535	3548	3555	3603	3608	3609	3612	3635	3637*	3642	3643
				3645	3646	3662	3670	3701	3701	3702	3722	3729	3732*	3733	3747
				3750	3759	3767	3770	3773*	3781	3784	3965	3971	3977	3980	3988
				3995	4018	4019	4020	4090*	4096	4097	4152*	4172*	4178	4193	4195
				4196	4220	4226	4231	4233	4234	4240	4242*	4246	4252	4253	4255
				4256	4275	4281	4300*	4305	4316*	4325*	4366*	4367	4414	4420	4420
				4424	4446	4447	4458*	4459	4462	4470	4471	4471	4517*	4547*	4548
				4550	4558	4607*	4608	4609	4611	4617*	4640	4640	4641	4642	4644
				4647	4655	4657	4661*	4670	4675	4702	4704	4710	4721	4732	4733
				4734	4743	4754	4759	4769	4770	4772	4788	4789	4808	4811	4822*
				4845	4846	4848	4857	4858	4859	4873	4879*	4888*	4889	4898	4901
				4906	4977*	4982	4997*	5004	5009	5058	5060	5079	5081	5113	5116
				5118	5118*	5197	5236	5242	5247	5249	5309	5394	5395	5396	5398
				5405	5409	5411	5415	5418	5424	5426	5428	5430	5433	5441	5466
				5475	5476	5479	5484	5485	5486	5487	5510	5513	5565*	5567	5569
				5570	5574	5575	5584	5586	5587	5602	5605	5616	5618	5622	5624
				5625	5639	5644	5645	5646	5649	5650*	5651	5669	5692	5695	5731
				5732	5732	5778*	5780	5784	5790	5792	5797	5799	5805	5809	5810
				5811	5814	5828	5833	5838	5838*	5852*	5855	5856	5967	5969	5970
				6031	6033	6052*	6114*	6115	6130*	6131	6132	6158*	6159	6180	6181
				6182	6183	6184	6193*	6194	6196*	6265*	6274	6275	6276	6294	6338*
				6339	6350	6364*	6365	6367	6373	6460*	6470	6525*	6527	6528	6531
				6532	6535	6538*	6541	6545	6545*						
PL\$MCT	001	000D	1210												
PL\$OPC	001	000D	1209	1210	1212	2939	2957	3061	3149	3150*	3155	3167*	3168*	3344	3345*
				3347	3366	3401	3422	3424*	3659	3701*	3988	3995	4097	4226	4246
				4252	4982	5113	5236	5797	5805	6115	6131	6181*	6183	6194*	6276
				6365	6367	6528									
PL\$OPM	001	000C	1207	1209	2489	2490*	2547*	2548*	2751	2922	3155*	3168	3347*	3424	3535*
				3603	3612*	3646	3670	3701	3722	3733	3750	3759	3784	3971	4018
				4019	4096	4305	4550	4641*	4642*	4647	4655*	4704	4710	4733	4743
				4759	4845	4889	5004	5058	5060*	5081*	5197*	5309*	5395	5396	5418
				5424	5567	5605*	5616*	5618*	5639*	5695	5799*	5810	5811	5828	6470
				6531											
PL\$RTC	001	000F	1212	1213	1217	2945*	2986*	2987*	2999	3108*	3255*	3269*	3320*	3328*	4420
				4490	4640	4640*	4848	5732	5790*						
PL\$TNT	001	000F	1213	1215											
PLASID	001	0005	1199												
PLCHN	001	0001	1192	2520	2521	2521*	3066	3067	3090	4607	5116	5118	5669	5669*	5676
				5685	5692*	5721	5723	5727	5731	5833	5838	6541	6545		
PLECB	001	0010	1217	1219	1221	4558	4657	4873	5649						
PLEFFL	001	0005	1198	3032	3032*	3257*	3266	3268*	3404	4367*	4420*	4439	4439*	4447	4447*
				4462	4471*	5513									
PLENDS	001	000F	1215	5644											
PLGMLG	002	1604	6695	5599	5633										
PLGMLN	002	1606	6696	5573											
PLINL	001	0007	1201	1203	3201	3216	3217	3250	3252	4446	4462	4471	4857	5247*	5249
				6274	6350										
PLLEN	001	0013	1221	5649*	6695	6696									
PLING	001	0010	1219	5644	5644*										
PLOPC	001	0003	1195	1197	2465	2523	2548	2550	3072	3074	3078	3354	3368	3369	3371
				3385	3528	3609	3642	3645	3657	3702	4195	4196	4231	4233	4234
				4253	4255	4256	4608	4644	5426	5428	5570	5575	5587	5622	5625
				5646	5969										
PLOPM	001	0002	1194	1195	2525	2551	2938	3026	3076	3165	3189	3204	3208	3242	3258

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CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 184

SYMBOL	LEN	VALUE	DEFN	REFERENCES	SCP	GENERATOR	08/08/10	PAGE	184
				3296 3548 3608 3643 3660 4548 4609 4721 4734 4770 4811 4846					
				4901 4906 5242 5394 5433 5476 5569 5574 5586 5602 5624 5645					
				5784 5970 6182 6339 6532					
PLOUTL	001	0005	1197	1198 1199 1201 3300 3977 4220 4275 5466 5487 5584					
PLRECA	001	0009	1203	1205 3034* 3164* 3202 3203 3226 3767 4178 4479 4670 4675* 4769					
				4858 5398 5405 5411 5415* 5475 5484* 5485* 5486 5814 6275 6373*					
PLRTC	001	0001	1191	1192 1194 4424 4424* 4429 4470* 4493 5732*					
PLTIME	001	479E	0278	0279 2596 2880					
PLTUBA	001	000B	1205	1207 2522 2732 2832 2844 2954 2964 3003 3033 3069 3095 3152					
				3169 3261 3289 3338 3387 3406 3420 3635 3662 3747 3781 3980					
				4020 4193 4240 4281 4414 4448 4459 4481 4511 4702 4732 4754					
				4788 4789 4808 4859 4898 5009 5409 5430 5479 5510 5780 5809					
				5856 5967 6033 6132 6159 6184 6294 6535					
PL1EOT	001	0040	1820						
PMR	001	0030	0049						
PMRINS	001	0010	0084						
PMRINT	001	0001	0087						
PMRI12	001	0070	0081						
PMROP1	001	0020	0083						
PMROP2	001	0040	0082						
PMRPRT	001	0002	0086						
PMRPRV	001	0008	0085						
POL	001	0001	6776	4070 4072 6036* 6038 6040 6041 6042 6042* 6045 6047 6047* 6078*					
				6082* 6086 6088 6090 6090* 6091 6091*					
POLACT	001	00F1	1852						
POLBIT	001	0020	6765						
POLCH1	001	0002	1846						
POLCH2	001	0003	1847						
POLCNT	001	0001	1845	4072 4990 6040 6045* 6088					
POLEND	001	00F0	1851	4988 6038					
POLID	001	0000	1844	4988 6038 6041 6086					
POLNXT	001	0003	1848	4993 6047 6091					
POLSKP	001	0080	6780	4992 6045					
POLTIM	001	47C6	0490	0491					
POL1MN	001	0002	6685	2590 2859 2861 2883					
POST	001	0040	0040	2328 2333 2334 5062 5199 5314					
POSTRB	001	0005	6739	4560 4659 4821 4877					
PROCES	001	0080	1803	4315 6305					
PRUFOF	001	0020	0450	4449					
PSR	001	0004	0046	5311*					
PSTCB	001	0D1A	4831	4730* 4744* 4781					
PT	001	0005	1894						
RA	001	003C	1895						
RCOK	001	0000	1359						
RCOKTC	001	000E	1360						
RCRTRM	001	0040	1387						
RCXCLR	001	0007	1372	3108 5790					
RCXDPD	001	0005	1370						
RCXDTR	001	0001	1364	3255 3269 3320 4470					
RCXEDT	001	0003	1366	4429 4493 4848					
RCXEOT	001	0002	1365						
RCXNAC	001	0010	1380						
RCXNAQ	001	000B	1376						
RCXNAV	001	0008	1373						
RCXNIQ	001	007E	1382						
RCXNTC	001	000C	1377						

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
RCXNTP	001	000D	1378	
RCXNTR	001	000F	1379	
RCXOFF	001	0009	1374	
RCXRVI	001	0006	1371	3328
RCXSHD	001	0004	1369	
RCXSHP	001	0011	1381	
RCXSPF	001	007F	1383	
RCXSPI	001	000A	1375	2945
READY	001	0084	6766	4123
RELSNS	002	15EF	6678	5238 6283
RND2K	002	15EB	6674	
SAVCAT	004	15D1	6643	2179 4357 4357* 4358* 4364* 4367
SAVLOP	001	47A2	0280	0281
SAVRCL	002	15DA	6654	3250 3254 3300 6187*
SAVTA1	001	15D7	6652	3205 3211 6191*
SAVTA2	001	15D8	6653	3062 3248 3653 4282 4311 4313 4355 6113 6128 6192* 6291 6302 6308 6310
SBA	001	0011	1896	
SBF1	001	007B	6767	5089
SBF2	001	00BB	6769	
SBN1	001	007A	6768	2445 2793 3558 5068
SBN2	001	00BA	6770	
SETIND	001	0294	2882	2862
SF	001	001D	1897	
SHDECB	001	477F	0270	0271
SHDSAV	001	478F	0272	0275
SKIP	001	0020	0041	2315 2335 2337 5056 5062 5199 5314
SNSTAS	001	0001	1928	2737 3128
SSBYT1	001	0005	1933	
SSBYT2	001	0006	1934	
SSCU	001	0003	1931	
SSDA	001	0004	1932	
SSETX	001	0007	1935	
SSID	001	6CD9	1929	6680
SSTX	001	0002	1930	
STMRI	001	0015	6747	2869 4191
STPRT	001	0008	6771	
ST1MIN	001	028F	2879	2857
SVLOOP	001	47C7	0491	0492
SV1TAX	001	4621	0132	0133
SV2TAX	001	4623	0133	0136
SWAID	001	0000	1907	
SWAPFR	001	0001	6711	5478
SWAPTO	001	0002	6712	4496 4856
SWTEXT	001	0003	1924	
S374ST	001	0001	1949	
S375B1	001	0003	1942	
S375B2	001	0004	1943	
S375ID	001	0001	1940	
S375NL	001	0002	1941	
TAONE	001	4000	0107	0108
TASAT1	001	0000	1400	1418
TASAT2	001	0001	1418	1439
TASAUT	001	0010	1408	6191
TASBKF	001	0004	1441	1443
TASBLK	001	0040	1422	3248 4311

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CROSS REFERENCE

SCP GENERATOR 08/08/10 PAGE 186

SYMBOL	LEN	VALUE	DEFN	REFERENCES
TASCAS	001	0040	1404	3211
TASCCP	001	0000	1396	1400 1443
TASCNC	001	0020	1406	
TASDFF	001	0001	1413	3782 4494
TASINX	001	0008	1410	
TASITB	001	0010	1426	4282 6118 6122 6302
TASLN	001	0005	1443	
TASMSG	001	0020	1424	3062 3653 4355 6192 6308 6310
TASPAN	001	0002	1432	4282 6302
TASRCL	001	0003	1439	1441
TASREC	001	0080	1420	4311 4313 6291
TASRSV	001	0006	1412	
TASTRN	001	0080	1402	3205
TASTSP	001	0008	1428	6122
TASVfy	001	0004	1430	
TASVRL	001	0001	1434	4282 6302
TATWO	001	4300	0108	
TCB@AS	001	0064	0563	0564
TCBACW	001	0001	0587	4832
TCBALC	001	0020	0576	
TCBARR	001	0019	0711	0715
TCBATR	001	00E0	0597	0599
TCBATS	001	010D	0627	0628
TCBATT	001	004E	0747	0749 0754 0755 0756 0759
TCBB	001	0000	0661	0662
TCBCAL	001	0000	0543	
TCBCHN	001	0040	0612	
TCBCM	001	0008	0578	
TCBCMP	001	002B	0561	
TCBCSN	001	001C	0715	0716
TCBDMG	001	00AE	0573	
TCBDS1	001	0006	0693	0700
TCBDS2	001	0007	0700	0703
TCBECB	001	00DB	0594	0595 4832 4837
TCBEJC	001	002B	0724	0736
TCBEJE	001	002A	0723	0724 0785
TCBEJS	001	002C	0736	0746
TCBEMG	001	0002	0580	
TCBEPL	001	010E	0628	0629
TCBFBM	001	00E3	0607	0608 0650
TCBFDT	001	0066	0565	0566
TCBFG1	001	0004	0682	0690 4720
TCBFG2	001	0005	0690	0693 4752
TCBFSA	001	0116	0630	
TCBHAV	001	0047	0749	
TCBIAR	001	000F	0706	0707
TCBID	001	0003	0664	0682
TCBIIC	001	00DE	0595	0596
TCBINQ	001	0068	0566	4782 4788* 4795
TCBIR	001	00A7	0568	0569
TCBKRQ	001	0040	0575	
TCBLOW	001	0020	0613	
TCBMAP	001	0026	0721	0722
TCBMAX	001	00DF	0596	0597 0648
TCBMFU	001	0004	0604	
TCBMTS	001	0004	0579	

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
TCBNCL	001	0004	0550	4720
TCBNEP	001	0010	0577	
TCBNXT	001	0001	0662	0663
TCBOFG	001	00E5	0610	0620 0651
TCBPAS	001	0065	0564	0565
TCBPCA	001	004C	0755	
TCBPCB	001	00E7	0620	0621
TCBPCS	001	004E	0756	
TCBPL	001	00C4	0589	0590 0622 0637
TCBPLE	001	00D6	0590	0591
TCBPMR	001	0011	0707	0708
TCBPR	001	00A9	0569	0570
TCBPRI	001	0002	0663	0664
TCBPRS	001	0080	0600	
TCBPRT	001	0010	0602	
TCBPSR	001	0013	0708	0709
TCBRBF	001	000B	0704	0705
TCBRBP	001	0009	0703	0704
TCBRIB	001	001D	0716	0717
TCBROC	001	0112	0629	0630
TCBRSV	001	001E	0717	0718
TCBRS1	001	0024	0718	0721
TCBRS3	001	004A	0754	
TCBRTC	001	002E	0746	0747
TCBRUF	001	0080	0574	
TCBRV	001	00EB	0622	
TCBSAD	001	00C4	0637	0638
TCBSAS	001	00C8	0639	0640
TCBSAT	001	00C6	0638	0639
TCBSAV	001	00CA	0640	
TCBSHQ	001	0001	0581	
TCBSRT	001	0080	0611	
TCBSUS	001	0040	0557	
TCBTCB	001	000D	0705	0706
TCBTIM	001	0028	0722	0723
TCBTRC	001	0080	0554	4752
TCBTRM	001	0020	0558	
TCBTUB	001	00DA	0593	0594
TCBURA	001	00E1	0599	0607 0649
TCBUSE	001	00E4	0608	0610
TCBUSR	001	0080	0549	4720
TCBWID	001	00FF	0546	
TCBWK	001	00D8	0592	4454 4861 5481
TCBXQ	001	00D8	0591	0592 0593
TCBXR@	001	00E9	0621	
TCBXR1	001	0017	0710	0711
TCBXR2	001	0015	0709	0710
TCBX1	001	00AD	0571	0573
TCBX2	001	00AB	0570	0571
TCB142	001	0008	0603	
TCB501	001	0020	0601	
TCB741	001	0040	0605	
TDLAY	001	0020	1798	3583
TEXT	001	0005	1923	
TIAC	001	0005	0033	0034
TIBC	001	0001	0029	0030

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
TICR	001	0008	0036	0037
TICS	001	0007	0035	0036
TIFE	001	0000	0028	0029
TIFLAG	001	0000	6786	2851* 2866* 4189*
TIMIOB	001	15F9	6687	2335* 2595 2599* 2850 2867* 4188 6627
TIMOPE	001	15F8	6682	2590* 2855 2856* 2859 2861* 2883* 2891* 2917*
TINS	001	0009	0037	
TIRC	001	0002	0030	0031
TISS	001	0006	0034	0035
TITIME	001	0006	6789	2596* 2860 2864* 2880*
TITR	001	0003	0031	0032
TIWRK1	001	4709	0412	0413
TIWRK2	001	470B	0413	0414
TIWRK3	001	470D	0414	0415
TIWRK4	001	470F	0415	0416
TIWRK5	001	4711	0416	0417
TIWRK6	001	4713	0417	0418 0419
TIYA	001	0004	0032	0033
TLCCP	001	0000	1761	1762
TLERR	001	0001	6705	
TLFRMA	001	0005	1764	1765 3202*
TLFRML	001	0007	1765	1766 3200*
TLRTC	001	0008	1766	
TLTOA	001	0003	1763	1764 3203*
TLTOL	001	0001	1762	1763 3201*
TNTATT	001	47B1	0478	0479
TNTOUT	001	0080	0523	
TRRIB	001	0009	6744	2429 2726 4333 5537
TRUAEQ	001	0016	6754	2552 2718 2817 4771 5571 5647 6309
TRUAHI	001	0013	6757	4495 6160 6311
TRUALO	001	0015	6755	
TRUNEQ	001	0011	6756	2862
TTBSIO	001	00FB	0095	4334
TTDFEN	001	00FC	0099	
TTDFEX	001	00FE	0100	
TTFREE	001	00E9	0092	
TTGETM	001	00E8	0091	
TTII	001	00EC	0096	
TTIIRT	001	00EE	0098	
TTIS	001	00ED	0097	
TTMOPN	001	00EA	0093	2430 2727
TTMRIB	001	0016	6746	2853
TTMSIO	001	00EB	0094	
TTTRAN	001	00E7	0090	
TUB	001	0001	6710	3003* 3013 3018 3095* 3102 3103 3114 3169* 3172 3635* 3636 4020* 4065 4240* 4241 4281* 4283 4286 6033* 6034 6035 6132* 6138 6139 6143 6159* 6161 6163 6184* 6185 6187 6294* 6295 6297 6535* 6536
TUB@SL	001	0040	1476	
TUBAER	001	0010	1530	
TUBALC	001	0008	1516	
TUBALL	001	0040	1558	
TUBAPP	001	0002	1507	
TUBAPT	001	000A	1588	
TUBAT1	001	000B	1484	1494 2534 4513
TUBAT2	001	000C	1494	1511 2845* 2955* 2959* 2960 2966 3013* 3018* 3339* 3388* 3663 3748 4418 4482 4512* 4776* 6161*

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CROSS REFERENCE

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SYMBOL	LEN	VALUE	DEFN	REFERENCES
TUBAT3	001	000D	1511	1526 3600 5010 5812 5968
TUBAT4	001	000E	1526	1537 2535 4737 4774*
TUBBKF	001	0022	1572	6139
TUBBPT	001	0001	1468	
TUBBSY	001	0002	1533	
TUBCAS	001	0022	1574	1577
TUBCCP	001	0000	1450	1451
TUBCHN	001	0080	1527	2535
TUBCHR	001	000A	1474	1484
TUBCLR	001	0080	1460	2532 3102 3103 3172 5785 5791
TUBCMA	001	001C	1562	1565
TUBCMD	001	0040	1496	2960 2966
TUBCMN	001	0008	1479	
TUBCNC	001	0020	1514	
TUBCON	001	0000	1578	
TUBCPU	001	0008	1586	
TUBDCH	001	0026	1595	
TUBDLN	001	002E	1551	
TUBDM@	001	0007	1455	1457
TUBDME	001	0040	1461	
TUBDMF	001	0020	1462	
TUBDPL	001	001B	1550	1551
TUBDPY	001	0040	1486	
TUBDTA	001	0080	1495	2960 2966
TUBDTF	001	0016	1543	2536 2834 2962 2967 3035 3154 3271 3340 3389 3407 3421 3601 3664 3749 3981 4194 4899 5410 5793 6034
TUBEMS	001	0008	1531	4774
TUBER@	001	0005	1454	1455 3292 3292*
TUBERP	001	0010	1515	3600 5010 5812 5968
TUBFSB	001	001A	1545	1555
TUBID	001	0001	1451	1453
TUBIIQ	001	0008	1504	4776
TUBIIS	001	0010	1503	2959 3018 3388 4776
TUBIMI	001	0020	1502	4418 4482 4512
TUBINP	001	0001	1482	
TUBINQ	001	0010	1537	1539 4780* 4796 4802 4808*
TUBKNM	001	0080	1485	2534 4513
TUBLCB	001	0016	1542	1543 1544
TUBLN	001	0027	1597	1605
TUBLNC	001	003A	1605	
TUBLNE	001	0080	1475	
TUBLOP	001	0080	1557	
TUBMCT	001	0004	1480	
TUBMLT	001	0001	1579	
TUBNID	001	0010	1478	
TUBNPT	001	000B	1589	
TUBOFF	001	0001	1492	
TUBOLT	001	0004	1506	
TUBONL	001	0020	1487	
TUBOTC	001	001B	1555	1562 3290
TUBOUT	001	0002	1481	
TUBOWN	001	0001	1508	2845 2955 3013 3339 3663 3748 6161
TUBPCB	001	0004	1532	
TUBPCS	001	0024	1592	1593 1594
TUBPHY	001	0023	1577	1592 2734 2833 3114 4241 6185
TUBPIL	001	0026	1594	1595 1597 1601 3264

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CROSS REFERENCE

SYMBOL LEN VALUE DEFN REFERENCES SCP GENERATOR 08/08/10 PAGE 191

				3816*	3817	3819	3825	4084*	4085	4087	4087	4170*	4171	4264*	4265
				4266	4323*	4324	4337*	4339	4341	4345					
WKDELL	001	0084	1835	3580*											
WKDTFD	001	0014	1821												
WKERRD	001	001A	1825	4085*	4171*	4265*									
WKIOBD	001	001C	1824	3582											
WORK	001	0001	6778	4102*	4103	4103*	4104								
WRAP	001	00FF	1849												
WRITE	001	00F1	1882												
X\$FFFC	002	15B2	6605	4266											
X\$FFFF	001	4639	0179	0182											
X\$0000	001	4632	0175	0176	4257	5131									
X\$0001	001	4633	0176	0177	2421	2425	2441	2540	3233	3764	3765	4168	4318	4319	4358
				4364	4375	4376	5061	5310	5528	6141	6314	6440	6441		
X\$0002	001	4635	0177	0178	5525										
X\$0003	002	15B0	6604												
X\$0004	001	4637	0178	0179	5143	5185	5232	5467	5485	5585	6357				
XR1	001	0001	0044	2317*	2732*	2734	2736*	2737	2791	2792*	2793	3115*	3128	3138	3138*
				3140	3226*	3228	3230	3232	3232*	3289*	3290	3292	3292	3556	3557*
				3558	3935*	3937	3939	4066*	4067	4314*	4315	4448	4448*	4451	4453
				4453*	4454	4454*	4455	4455*	4456	4481*	4482	4494	4497*	4510*	4511
				4558*	4657*	4819*	4830*	4832	4837	4837*	4873*	4986*	4988	4990	4991
				4991*	4992	4993	4993*	5529	5530*	5531	5533*	5762*	5764	6154*	6155
				6156											
XR2	001	0002	0045	2440	2520	2522*	2532	2534	2535	2536	2589	2595*	2596	2832*	2833
				2834*	2844*	2845	2850*	2851	2860	2864	2866	2874*	2880	2954*	2955
				2959	2960	2962	2964*	2966	2967	3033*	3035	3069*	3070	3152*	3153
				3154	3261*	3262	3264	3271	3338*	3339	3340	3387*	3388	3389	3403*
				3405	3406*	3407	3420*	3421	3555*	3600	3601	3656*	3657	3659	3660
				3662*	3663	3664	3747*	3748	3749	3781*	3782	3936*	3939*	3976*	3978
				3980*	3981	4188*	4189	4193*	4194	4414*	4418	4423	4423*	4424	4429
				4439	4439	4447	4459*	4460	4460*	4462	4479	4481	4490	4493	4497
				4511*	4512	4513	4517	4605*	4607	4611*	4612	4619*	4670*	4702*	4719
				4719*	4720	4730	4732*	4737	4751	4751*	4752	4754*	4772	4774	4776
				4780	4781*	4782	4788	4789*	4795	4795*	4796	4802	4802*	4808	4859*
				4860	4860*	4861	4898*	4899	5009*	5010	5026*	5171*	5291	5292*	5293
				5302	5302*	5303	5304*	5393	5405*	5409*	5410	5430*	5431	5441*	5446*
				5479*	5480	5480*	5481	5510*	5511	5512*	5513	5643*	5644	5649	5650
				5659*	5660	5661	5663	5663*	5669	5676	5685	5685*	5692	5719*	5721
				5723	5727	5727*	5731	5759	5778	5780*	5785	5791	5793	5793*	5809*
				5812	5856*	5967*	5968	6032	6054*						
ZROTIM	004	15F7	6681	2860											

TOTAL STATEMENTS IN ERROR IN THIS GENERATION-- 0

OL103 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 27
 NAME-\$CC4#2,PACK-R2R2R2,UNIT-R1,RETAIN-P,LIBRARY-R,CATEGORY-000
 OL105 I THE CODE LENGTH OF \$CC4#2 IS 5639 DECIMAL.

1 CT EJ I
PROGRAM END

\$CGDRV01

XX CALL	\$CC1LE,R1	*** CREATE \$CC4#2	CCP00453
XX LOAD	\$OLINK,R1	LINKEDIT \$CC4#2	CCP00309
XX FILE	NAME-\$SOURCE,UNIT-D1,PACK-PID001,TRACKS-100,RETAIN-S,		CCP00310
XX	SHARE-NO		CCP00311
XX FILE	NAME-\$WORK,UNIT-D1,PACK-PID001,TRACKS-040,RETAIN-S,		CCP00312
XX	SHARE-NO		CCP00313
XX RUN			CCP00314
// OPTIONS	ENTRY-\$CC4CM,MAP-XREF,LEVEL-4		CCP00315
// PHASE	NAME-\$CC4#2,UNIT-F2,RETAIN-R,LINKADD-X'0000'		CCP00316
// CATEGORY	NAME-\$CC4V2,VALUE-100		CCP00317
// INCLUDE	NAME-'\$CC4VT,\$CC4#2,\$CC4V2',UNIT-R1		CCP00318
// INCLUDE	NAME-'\$CC4IB,\$CC4BT',UNIT-R1		CCP00319
// INCLUDE	NAME-\$CC4M1,UNIT-R1		CCP00320
// INCLUDE	NAME-\$\$BSLG,UNIT-F1		CCP00321
// INCLUDE	NAME-\$\$BSID,UNIT-F1		CCP00322
// END			CCP00323

START ADDRESS	CATEGORY	NAME AND ENTRY	CODE LENGTH		REFERENCED BY
			HEXADECIMAL	DECIMAL	
0000	0	\$CC4VT	0015	21	\$CC4V2
0015	0	\$CC4#2	1607	5639	\$CC4VT
0015		CMBEG			\$CC4V2
001A		\$CC4CM			
0F7B		\$CC4FR			\$CC4VT
1260		\$\$BMCH			\$CC4M1
15F7		CHBMHL			\$CC4M1
1298		CHBMBS			\$CC4M1
15E6		SAVCAT			\$CC4IB
161C	0	\$CC4IB	0056	86	\$CC4V2 \$CC4VT
1672	0	\$CC4BT	001F	31	\$CC4V2 \$CC4#2 \$CC4VT
1672		\$\$BSMT			\$CC4M1
1691	0	\$CC4M1	0FCF	4047	\$CC4#2 \$CC4VT
1691		\$\$BSMS			\$CC4V2 \$CC4#2 \$CC4VT
1B0F		MSBSIO			
1F11		MSBIOS			
1F4D		MSBSIH			
1958		MSBSCH			
1691		\$\$BSDM			
1F23		MSBSIR			
1F4C		SIOENB			
1F32		MSBSSA			\$CC4VT
1DC6		WORKAD			
1D71		DMNSNS			
2660	0	\$\$BSLG	005A	90	\$CC4M1 \$CC4V2 \$CC4VT
26BA	0	\$\$BSID	0190	400	\$CC4M1
26C3		IDPOLL			
2796		IDSET			\$CC4M1
284A	0,100	\$CC4V2	00AA	170	\$CC4VT
284A		MAINT2			
28AE		ADDRS2			\$CC4VT

OL100 I THE TOTAL CORE USED BY \$CC4#2 IS 10484 DECIMAL.
 OL107 I THE PARTITION SIZE REQUIRED TO EXECUTE THIS PROGRAM IS 12K.
 OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 001A.
 OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 45
 NAME-\$CC4#2,PACK-F2F2F2,UNIT-F2,RETAIN-P,LIBRARY-O

1 CT EJ I
PROGRAM END

ŞOLINK01

```
XX CALL $CC1BT,R1          *** CREATE BSCA TRACE MODULE      CCP00454
*** USE THE OVERLAY LINKAGE EDITOR TO CREATE THE LOADABLE BSCA TRACE CCP00326
*** SERVICE AID          CCP00327
*                          CCP00328
XX LOAD $OLINK,R1         CCP00329
XX FILE NAME-$SOURCE,UNIT-D1,PACK-PID001,TRACKS-100,RETAIN-S, CCP00330
XX SHARE-NO              CCP00331
XX FILE NAME-$WORK,UNIT-D1,PACK-PID001,TRACKS-40,RETAIN-S,   CCP00332
XX SHARE-NO              CCP00333
XX RUN                   CCP00334
// PHASE NAME-$CC$BS,UNIT-F2,RETAIN-R      CCP00335
// OPTIONS LEVEL-4          CCP00336
// INCLUDE NAME-$CC$BS,UNIT-R1             CCP00337
// INCLUDE NAME-$B$STT,UNIT-F1            CCP00338
// END                                   CCP00339
```

START ADDRESS	CATEGORY	NAME AND ENTRY	CODE LENGTH	
			HEXADECIMAL	DECIMAL
4000	0	\$CC\$BS	0002	2
4002		MSBSSA		
4002	0	\$\$BSTT	028A	650
4002		\$\$BSMT		
4002		\$\$BSMT		
4140		MTBSML		
4282		MTBSMM		
40DB		INTTCB		

OL100 I THE TOTAL CORE USED BY \$CC\$BS IS 652 DECIMAL.
 OL107 I THE PARTITION SIZE REQUIRED TO EXECUTE THIS PROGRAM IS 08K.
 OL101 I THE START CONTROL ADDRESS OF THIS MODULE IS 4000.
 OL104 I TOTAL NUMBER OF LIBRARY SECTORS REQUIRED IS 3
 NAME-\$CC\$BS,PACK-F2F2F2,UNIT-F2,RETAIN-P,LIBRARY-O

1 CT EJ I
PROGRAM END

ŞOLINK01

1 CT EJ I
PROGRAM END

\$MAINT01

1 CT EJ I
PROGRAM END

\$MAINT01

1 CT EJ I
PROGRAM END

\$MAINT01

```
XX CALL $CC1RG,R1          *** COPY RPGII MODULES          CCP00458
*** COPY SUBROUTINES FOR USE WITH RPG II TO PROGRAM PREPARATION PACK CCP00395
*                           CCP00396
XX PAUSE ASSURE RPG II PROGRAM PACK ON UNIT F1 -- THEN CONTINUE CCP00397
```

```
1 CR 90 D 0 3 STEP
XX PAUSE ASSURE RPG II PROGRAM PACK ON UNIT F1 -- THEN CONTINUE CCP00397
0 1 CR 90 D 0 3 STEP
XX LOAD $MAINT,F1          CCP00398
XX RUN                     CCP00399
// COPY FROM-R1,TO-F1,RETAIN-R,LIBRARY-R,NAME-SUBR.ALL CCP00400
// END                     CCP00401
```

1 CT EJ I
PROGRAM END

\$MAINT01

XX	CALL	\$CC1ND,R1	*** COPY SAMPLE ASSIGNMENT	CCP00459
*				CCP00404
***	PRINT	SAMPLE ASSIGNMENT SET TO BE USED WITH INSTALLATION		CCP00405
***	VERIFICATION	PROGRAM		CCP00406
*				CCP00407
XX	LOAD	\$MAINT,F1		CCP00408
XX	RUN			CCP00409
//	COPY	FROM-R1,TO-PRINT,LIBRARY-S,NAME-\$CGSST		CCP00410

```

MODULE-$CGSST, VOLUME ID-R2R2R2, DATE-08/08/10
***** SAMPLE ASSIGNMENT SET CONTROL STATEMENTS *****
*
***** THE FOLLOWING STATEMENTS CAN BE MODIFIED FOR YOUR
***** CONFIGURATION BUT SOME MUST BE KEPT TO RUN CCPIVP.
*
*
// SET ID-@,ACTION-CREATE,DFLTEXEC-YES,ANYSPECS-NO
// SYSTEM MINUPA-22K,MINTPBUF-2840,
// PASSWORD-FECD,
// COMMANDL-50,DFFPACK-PROGRAM,PGMREQ-15
*
// TERMATTR ATTRID-1,TRANSLAT-NO,BLKL-512,DATAFORM-MESSAGE,
// VERIFYID-NO,DF3270-YES
*
***** THIS STMT TYPE REQD FOR CCPIVP(OR MLTALINE STMT)
// BSCALINE TYPE-CS,LINENUM-1,POLLIST-'00,01,10,11'
// BSCATERM TERMID-00,TYPE-3277M2,ATTRID-1,COMMAND-YES,OFFACTN-HOLD,
// ADDRCHAR-*60604040*,POLLCHAR-*40404040*
// BSCATERM TERMID-01,TYPE-3277M2,ATTRID-1,COMMAND-YES,OFFACTN-HOLD,
// ADDRCHAR-*6060C1C1*,POLLCHAR-*4040C1C1*
// BSCATERM TERMID-10,TYPE-3277M2,ATTRID-1,COMMAND-NO,
// ADDRCHAR-*61614040*,POLLCHAR-*C1C14040*
// BSCATERM TERMID-11,TYPE-3277M2,ATTRID-1,COMMAND-NO,
// ADDRCHAR-*6161C1C1*,POLLCHAR-*C1C1C1C1*
*
// TERMNAME NAME-CU0DV0,TERMID-00
// TERMNAME NAME-CU0DV1,TERMID-01
// TERMNAME NAME-CU1DV0,TERMID-10
// TERMNAME NAME-CU1DV1,TERMID-11
*
***** THIS STMT TYPE REQD FOR CCPIVP
// DISKFILE NAME-CGIVFILE,ORG-C,RECL-16
*
***** THIS STMT NECESSARY FOR CCPIVP
// PROGRAM NAME-CCPIVP,PGMDATA-YES,PRINTER-SHR,
// FILES-'CGIVFILE/CO/NOSHR',
// PACK-PROGRAM

// COPY FROM-R1,TO-PRINT,LIBRARY-S,NAME-$CGCND

```

```

00010000
00020000
00030000
00040000
00050000
00060000
00070000
00080000
00090000
00100000
00110000
00120000
00130000
00140000
00150000
00160000
00170000
00180000
00190000
00200000
00210000
00220000
00230000
00240000
00250000
00260000
00270000
00280000
00290000
00300000
00310000
00320000
00330000
00340000
00350000
00360000
00370000
CCP00411

```

```
*****
*
*           C C P   G E N E R A T I O N   C O M P L E T E
*
*****
*
*   TO VERIFY THAT YOUR CCP SYSTEM HAS BEEN CORRECTLY
*   GENERATED, YOU SHOULD NOW DO THE FOLLOWING --
*
*   1. FAMILIARIZE YOURSELF WITH THE PROCEDURES FOR
*   PERFORMING INSTALLATION VERIFICATION. THESE
*   PROCEDURES ARE CONTAINED IN THE CCP SYSTEM
*   REFERENCE MANUAL, GC21-7579.
*
*   2. AS THE PROGRAM FOR PERFORMING INSTALLATION
*   VERIFICATION, USE THE SUPPLIED PROGRAM
*   'CCPIVP'.
*
*   3. PERFORM AN ASSIGNMENT BUILD RUN TO CREATE
*   AN ASSIGNMENT SET SUFFICIENT FOR THE VERIFI-
*   CATION ACTIVITY. USE THE SAMPLE ASSIGNMENT
*   SET PROVIDED FOR THIS PURPOSE -- SOURCE LIB-
*   RARY MEMBER -- $CGSST.
*
*   4. START UP CCP BY ENTERING THE FOLLOWING OCL:
*       // LOAD $CCP,R1
*       // FILE NAME-CGIVFILE,UNIT-   ,PACK-   ,RETAIN-T,
*       //   TRACKS-1
*       // RUN
*
*   5. WHEN EXECUTION BEGINS, REQUEST THE PROGRAM
*   'CCPIVP' FROM THE CONSOLE.
*
*   6. COMPARE THE RESULTS OF THE OPERATION OF THIS
*   PROGRAM WITH THOSE SPECIFIED IN THE CCP
*   SYSTEM REFERENCE MANUAL.
*
*   NOTE:
*   -----
*   IF YOUR SYSTEM HAS A PUNCH DEVICE, THE SAMPLE ASSIGNMENT
*   SET ($CGSET) WITH REQUIRED OCL STATEMENTS MAY BE PRINTED
*   AND PUNCHED BY ENTERING THE FOLLOWING OCL STATEMENTS:
*
*       // LOAD $MAINT,DSUNIT
*       // RUN
*       // COPY FROM-DIUNIT,TO-PRTPCH,LIBRARY-S,NAME-$CGSET
*       // END
*
*   REFERENCE THE COMMUNICATION CONTROL PROGRAM SYSTEM REFERENCE
*   MANUAL FOR A DESCRIPTION OF THE SAMPLE ASSIGNMENT SETS.
*
*****
```

// END

CCP00412

1 CT EJ I
PROGRAM END

\$MAINT01

```
XX CALL $CC1BF,R1          *** CREATE $CCPFILE          CCP00460
*   --- ALLOCATE $CCPFILE AND WRITE INITIAL CONTENTS --- CCP00415
*                                                                    CCP00416
*** EXECUTE THE PREVIOUSLY CREATED LOAD MODULE $CC1BF TO WRITE THE CCP00417
*** INITIAL CONTENTS OF $CCPFILE                          CCP00418
*                                                                    CCP00419
XX PAUSE ASSURE UNIT F2 CONTAINS PACK F2F2F2 -- THEN CONTINUE CCP00420
```

```
1 CR 90 D 0 3 STEP
XX PAUSE ASSURE UNIT F2 CONTAINS PACK F2F2F2 -- THEN CONTINUE CCP00420
0 1 CR 90 D 0 3 STEP
XX LOAD $CC1BF,R1          CCP00421
XX FILE NAME-$CCPFILE,UNIT-F2,PACK-F2F2F2,TRACKS-2,RETAIN-P, CCP00422
XX SHARE-NO                CCP00423
XX RUN                      CCP00424
1 CP U- I $CC1BF01
*** $CCPFILE NOW INITIALIZED FOR FIRST ASSIGNMENT ***
```

1 CT EJ I
PROGRAM END

\$CC1BF01

```
XX CALL $CC1DP,R1          *** CREATE $CCPDUMP FILE          CCP00461
*   --- ALLOCATE $CCPDUMP AND WRITE INITIAL CONTENTS ---    CCP00427
*                                                                CCP00428
*** EXECUTE THE LOAD MODULE $CC1DP TO WRITE THE INTITIAL    CCP00429
*** CONTENTS OF $CCPDUMP                                     CCP00430
*                                                                CCP00431
XX PAUSE ASSURE UNIT D2 CONTAINS PACK PID001 -- THEN CONTINUE CCP00432

1 CR 90   D 0 3           STEP
XX PAUSE ASSURE UNIT D2 CONTAINS PACK PID001 -- THEN CONTINUE CCP00432
0 1 CR 90   D 0 3           STEP
*** IF CCP WILL BE EXECUTED ON A SYSTEM HAVING A DIFFERENT MAIN STORAGE CCP00433
*** SIZE, $CCPDUMP MUST BE RECREATED ON THAT SYSTEM USING $CC1DP. CCP00434
XX LOAD $CC1DP,R1                                             CCP00435
XX FILE NAME-$CCPDUMP,UNIT-D2,PACK-PID001,TRACKS-49,        CCP00436
XX SHARE-NO,RETAIN-P                                         CCP00437
XX RUN                                                       CCP00438
1 CP U-   I           $CC1DP01
// TRACE TRACKS-6                                           CCP00439
1 CP U-   I           $CC1DP01
*** $CCPDUMP NOW INITIALIZED FOR 002 DUMPS ***
```

```
1 CT EJ I          $CC1DP01  
PROGRAM END
```

```
sim> at pch mlterfil.ocl
```



```
// READER MFCU1
// LOG 1403
*
*** ALLOCATE BSCA MLTERFIL FILE
*
// LOAD $$BSFI,F1
// FILE NAME-MLTERFIL,UNIT-F1,PACK-F1F1F1,TRACKS-5,RETAIN-P
// RUN
  1 CI LH F1 D   23          $$BSFI01
MLTERFIL
  2 1 CI LH F1 D   23          $$BSFI01
```

```
1 CT EJ D          $$BSFI01
PROGRAM END ***** OPTION 2
```

```
sim> at pch ccprun.ocl
```

```
// LOAD $MAINT,F1
// RUN
// COPY FROM-READER,LIBRARY-P,RETAIN-R,NAME-$CCP,TO-F2
// END
```

```
1 CT EJ I          $MAINT01  
PROGRAM END
```

```
sim> at pch cgset.oc1
```

```
*
// READER CONSOLE
// READER MFCU1
*****SAMPLE ASSIGNMENT AND SAMPLE START-UP DECK***** 00010000
*
***** SAMPLE ASSIGNMENT SET ***** 00020000
*
*****FILL IN UNIT ***** 00030000
*
*****FILL IN UNIT ***** 00040000
*
*****FILL IN UNIT ***** 00050000
*
*****FILL IN UNIT ***** 00060000
// LOAD $CCPAS,F2 00070000
// FILE NAME-$CCPFILE,RETAIN-P,UNIT-F2,PACK-F2F2F2 00110000
// FILE NAME-$CCPWORK,RETAIN-S,TRACKS-3,UNIT-R2,PACK-R2R2R2 00150000
// RUN 00160000
```

```

// SET ID-V,ACTION-REPLACE,DFLTEXEC-YES                                00220000
CA046 W  REPLACE SET ID NOT FOUND. ASSUME ACTION-CREATE
// SYSTEM MINUPA-12K,MINTPBUF-2840,PASSWORD-IBMS3,                    00230000
//      COMMANDL-50,PGMREQ-15                                         00250000
*                                                                       00260000
// TERMATTR ATTRID-1,TRANSLAT-NO,BLKL-512,DATAFORM-MESSAGE,         00270000
//      VERIFYID-NO                                                    00280000
*                                                                       00290000
*****THIS STMNT TYPE REQD FOR CCPIVP(OR MLTALINE STMNT)             00300000
*                                                                       00310000
// BSCALINE TYPE-CS,LINENUM-1,POLLIST-'00,01,10,11'                   00320000
// BSCATERM TERMID-00,TYPE-3277M2,ATTRID-1,COMMAND-YES,OFFACTN-HOLD,  00330000
//      ADDRCHAR-*60604040*,POLLCHAR-*40404040*                       00340000
// BSCATERM TERMID-01,TYPE-3277M2,ATTRID-1,COMMAND-YES,OFFACTN-HOLD,  00350000
//      ADDRCHAR-*6060C1C1*,POLLCHAR-*4040C1C1*                       00360000
// BSCATERM TERMID-10,TYPE-3277M2,ATTRID-1,COMMAND-NO,               00370000
//      ADDRCHAR-*61614040*,POLLCHAR-*C1C14040*                       00380000
// BSCATERM TERMID-11,TYPE-3277M2,ATTRID-1,COMMAND-NO,               00390000
//      ADDRCHAR-*6161C1C1*,POLLCHAR-*C1C1C1C1*                       00400000
*                                                                       00410000
// TERMNAME NAME-TERM00,TERMID-00                                     00420000
// TERMNAME NAME-TERM01,TERMID-01                                     00430000
// TERMNAME NAME-TERM02,TERMID-10                                     00440000
// TERMNAME NAME-TERM03,TERMID-11                                     00450000
*                                                                       00460000
*****THIS STMNT TYPE REQD FOR CCPIVP                                00470000
*                                                                       00480000
// DISKFILE NAME-CGIVFIL1,ORG-C,RECL-16                               00490000
*                                                                       00500000
*****THIS STMNT TYPE REQD FOR CCPIVP                                00510000
*                                                                       00520000
// DISKFILE NAME-CGIVFIL2,ORG-C,RECL-16                               00530000
*                                                                       00540000
*****NOTE THAT ONE DISKFILE STATEMENT -CGIVFILE- WOULD BE NEEDED  00550000
*****IF SYMBOLIC FILES ARE NOT BEING USED.                           00560000
*                                                                       00570000
* THE FOLLOWING TWO DISK FILE STATEMENTS ARE FOR EXAMPLE ONLY AND    00580000
* SHOULD BE REMOVED PRIOR TO RUNNING THIS ASSIGNMENT SET.           00590000
*                                                                       00600000
// DISKFILE NAME-DUMMY1,ORG-D,RECL-256                                00610000
// DISKFILE NAME-DUMMY2,ORG-I,RECL-64,KEYL-8,KEYPOS-1                00620000
*                                                                       00630000
*****THIS STMNT TYPE REQD FOR CCPIVP IF SYMBOLIC FILES ARE USED.   00640000
*                                                                       00650000
// SYMFILE NAME-CGIVFILE,DISKFILE-'CGIVFIL1,CGIVFIL2'                00660000
*                                                                       00670000
*****THIS STMNT NECESSARY FOR CCPIVP,PACK AND PRINTER VALUES     00680000
*****CAN BE CHANGED FOR YOUR CONFIG.                                 00690000
*                                                                       00700000
// PROGRAM NAME-CCPIVP,PGMDATA-YES,                                    00710000
//      FILES-'CGIVFILE/CO/NOSHR',                                     00720000
//      PACK-PROGRAM,PRINTER-NO                                       00730000
*                                                                       00740000
*****NOTE THAT CCPIVP MUST BE ON CORRECT PACK AT STARTUP OF CCP.   00750000
*                                                                       00760000
* THE FOLLOWING TWO PROGRAM STATEMENTS ARE FOR EXAMPLE ONLY AND     00770000

```

* SHOULD BE REMOVED PRIOR TO RUNNING THIS ASSIGNMENT SET.	00780000
*	00790000
*// PROGRAM NAME-DUMMY1,MRTMAX-2,PGMDATA-YES,	00800000
*// FILES-'DUMMY1/DU/SHR,DUMMY2/IRUA/SHR',PACK-SYSTEM,DFFMTERM-4,	00810000
*// DFFNDF-2,DFFSFDT-1006	00820000
*	00830000
*// PROGRAM NAME-DUMMY2,MRTMAX-2,PGMDATA-YES,	00840000
*// FILES-'DUMMY1/DU/SHR,DUMMY2/IRA/SHR',PACK-SYSTEM,DFFMTERM-2,	00850000
*// DFFNDF-1,DFFSFDT-396	00860000
*	00870000
*	00880000
/* REPLACE WITH /*	00890000

CA244 W UNREFERENCED FILE STATEMENTS ARE IGNORED
 DUMMY1
 DUMMY2

2 WARNING MESSAGES

0 TERMINATION MESSAGES

1 CT EJ I
PROGRAM END

\$CCPAS01


```

*
// READER CONSOLE
// CALL $CCP,F2
*
***          RUN CCP - MODEL 15D.
*
XX LOAD $CCP,F2
*
***FOLLOWING TWO // FILE STATEMENTS CORRESPOND TO SAMPLE ASSIGNMENT
***DECK SYMBOLIC FILES.
*
XX FILE NAME-CGIVFIL1,RETAIN-T,TRACKS-1,UNIT-F2,PACK-F2F2F2 ***ANY 5444
XX FILE NAME-CGIVFIL2,RETAIN-T,TRACKS-1,UNIT-F2,PACK-F2F2F2 ***ANY 5444
*
***IF SYMBOLIC FILES ARE NOT USED REPLACE THE PRECEEDING TWO STATEMENTS
***SINGLE // FILE STATEMENT*****
*
XX FILE NAME-CGIVFILE,RETAIN-T,TRACKS-1,UNIT-F2,PACK-F2F2F2 ***ANY 5444
*
XX RUN
// RUN $CCP,F2
  1 CP U-      I          $CCP01
SU001 SYSTEM/3 CCP
  1 CP U-      I          $CCP01
SU002 $CCPFILE ON UNIT F2
  1 CP U-      I          $CCP01
SU003 DEFAULT SET = V
  1 CP U-      I          $CCP01
*SU011 ANY SPECIFICATIONS?
* 1 CP U-      R016       $CCP01

* 1 CP U-      R016       $CCP01
N
  1 CP U-      I          $CCP01
SU046 $CCPDUMP FILE ON UNIT D2
  1 CP U-      I          $CCP01
SU051 00 DUMPS USED, 02 AVAILABLE IN $CCPDUMP FILE
  1 CP U-      I          $CCP01
SU071 INITIALIZING CCP
  1 CP U-      I          $CCP01
SU753 OPENING DISKFILES
  1 CP U-      I          $CCP01
SU965 T/P BUFFER IS 04816 BYTES, USER PROGRAM AREA IS 042K.
  P CP U-      I
000 CCP STARTED

```

```

00940000
00950000
00960000
00970000
00980000
00990000
01000000
01010000
01020000
01030000
01040000
01050000
01060000
01070000
01080000
01090000
01100000

```