



160

CICS

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update

CICS Update

Published by

Xephon
27-35 London Road
Newbury
Berkshire RG14 1JL
England
Telephone: 01635 38030
From USA: 01144 1635 38030
E-mail: xephon@compuserve.com

North American office

Xephon/QNA
1301 West Highway 407, Suite 201-405
Lewisville, TX 75077-2150
USA
Telephone: 940 455 7050

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Editor

Robert Burgess

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Reducing CICS use of the JES2 spool

BACKGROUND

With today's extended availability, CICS messages can occupy a significant portion of the JES2 spool buffers. A noteworthy culprit is the MSGUSR SYSOUT dataset, which receives output for the extrapartition transient data queue CSSL.

Typically, CSSL is the indirect destination for all sorts of messages from signon/signoff, file allocation, program and transaction manager, terminal I/O errors, ZNAC, LE/370, dump manager, user-generated application messages, and a host of others.

This queue can become quite large over the weeks or even months that CICS remains continuously active.

METHOD

This article describes a way to return MSGUSR spool space to JES for reuse, thereby reducing CICS use of the spool buffers.

The method has two requirements:

- That you code 'FREE=CLOSE' on your MSGUSR SYSOUT DD statement.
- That you initiate the included NEWCSSL program at desired intervals.

Without FREE=CLOSE, SYSOUT datasets are mapped by the job's common Track Group Map (TGM). As such, the spool space they occupy cannot be freed until the entire job (in this case CICS) is purged.

On the other hand, SYSOUT DDs allocated with FREE=CLOSE (or SPIN=UNALLOC) receive their own TGM, so that space can be freed when the dataset is purged.

The program NEWCSSL performs three operations. Firstly, it closes

the extrapartition queue CSSL, freeing the MSGUSR SYSOUT dataset; next, the program dynamically allocates another JES dataset to MSGUSR; and it ends by re-opening the CSSL queue.

At this point, the dataset previously allocated to MSGUSR can be printed, deleted, or turned over to SYSOUT archival software, depending on your needs, and the JES spool space is available for reuse.

We have found it convenient to invoke NEWCSSL each midnight to accommodate daily SYSOUT archival of CSSL messages. NEWCSSL uses the DYNALLOC macro to issue dynamic allocation requests.

Recent IBM publications documenting this service are:

- GC28-1763-05 *MVS Programming: Authorized Assembler Services Guide*.
- GC28-1764-05 *MVS Programming: Authorized Assembler Services Reference, Volume 1*.

I also benefitted from two previous *CICS Update* articles in unravelling the sometimes arcane details of DYNALLOC. These articles are *Dynamic allocation of datasets within CICS/ESA* (Issue 106, September 1994) and *Dynamic dataset allocation in CICS* (Issue 93, August 1993).

NEWCSSL

```
*ASM XOPTS(CICS,SP)
      PRINT ON,NOGEN
*
      DFHREGS
*
DFHEISTG DSECT
DYNARET  DS    F          DYNALLOC RETURN CODE
DYNAERR  DS    F          DYNALLOC ERROR
DYNAINF  DS    F          DYNALLOC INFO
*
XLWRK3   DS    CL3        3 BYTE WORK FOR DIAGNOSTICS
XLWRK5   DS    CL5        5 BYTE WORK FOR DIAGNOSTICS
*
WTOMSG   DS    CL106      WTO MSG
          ORG    WTOMSG
```

```

WTOMID1 DS CL10
WTOMID2 DS CL09
WTOTXT1 DS CL18
WTOTXT2 DS CL38
WTOTXT3 DS CL31
WTOMSGL EQU *-WTOMSG
*
CVDA DS F CVDA HOLDER
RESP DS F CICS API RESP
LENG DS F WTO MSG LENGTH
*
SVCBLD DS CL200 SVC99 BUILD AREA
SVCTXT DS CL(LENAREA) SVC99 TEXT UNITS
*
NEWCSSL CSECT
NEWCSSL AMODE 31
NEWCSSL RMODE ANY
*
LA R7,WTOMSGL INIT COMMON WTO FIELDS
ST R7,LENG
MVI WTOMSG,X'40'
MVC WTOMSG+1(L'WTOMSG-1),WTOMSG
EXEC CICS ASSIGN -
PROGRAM(WTOMID1) -
APPLID(WTOMID2)
MVC CVDA,DFHVALUE(CLOSED) CLOSE TDQ
EXEC CICS SET -
TDQUEUE('CSSL') -
OPENSTATUS(CVDA) -
RESP(RESP)
CLC RESP,DFHRESP(NORMAL) CLOSED?
BE DYNOCATE Y - GO DO DYNALLOC
MVC WTOTXT1,XTTDDQC N - BUILD WTO MSG
MVC WTOTXT2,XTWRN1
MVC WTOTXT3,XTDIAG1
MVC XLWRK3(2),RESP+2
UNPK XLWRK5,XLWRK3
TR XLWRK5,XLTAB
MVC WTOTXT3+7(4),XLWRK5
EXEC CICS WRITE OPERATOR -
TEXT(WTOMSG) -
TEXTLENGTH(LENG) -
EVENTUAL
B RETURN EXIT
*
DYNOCATE DS 0H
LA R8,SVCBLD POINT TO DYN STG SVCAREA
USING S99RBP,R8 DESCRIBE WITH INPUT RB DSECT
MVC SVCTXT(LENAREA),DDNTU PUT TEXT UNITS IN RE-ENT STG

```

LA	R4,S99RBPTR+4	GAIN ADDRESSABILITY TO SVC99
USING	S99RB,R4	... INPUT REQUEST BLOCK
ST	R4,S99RBPTR	LOAD PTR VALUE IN RB
OI	S99RBPTR,S99RBPND	INDICATE ONE AND ONLY ONE RB
XC	S99RB(RBLN),S99RB	CLEAR REQUEST BLOCK
MVI	S99RBLN,RBLN	SET RB LENGTH
MVI	S99VERB,S99VRBAL	SVC99 REQUEST = ALLOCATE
MVI	S99FLG11,S99JBSYS	ASK FOR JOB SYSOUT
LA	R5,S99RB+RBLN	GET BEGINNING ADDR PTRLIST
USING	S99TUPL,R5	
ST	R5,S99TXTPP	STORE ADDR OF TUP LIST IN RB
LA	R6,SVCTXT	BUILD TEXT UNIT POINTER LIST
ST	R6,S99TUPTR	-> DDNAME TU
LA	R5,S99TUPL+4	
LA	R6,SVCTXT+(BLKSZTU-DDNTU)	
ST	R6,S99TUPTR	-> BLKSZ TU
LA	R5,S99TUPL+4	
LA	R6,SVCTXT+(LRECLTU-DDNTU)	
ST	R6,S99TUPTR	-> LRECL TU
LA	R5,S99TUPL+4	
LA	R6,SVCTXT+(RECFMTU-DDNTU)	
ST	R6,S99TUPTR	-> RECFM TU
LA	R5,S99TUPL+4	
LA	R6,SVCTXT+(SYSOUTU-DDNTU)	
ST	R6,S99TUPTR	-> SYSOUT TU
LA	R5,S99TUPL+4	
LA	R6,SVCTXT+(CLOSETU-DDNTU)	
ST	R6,S99TUPTR	-> CLOSE TU
USING	S99TUNIT,R6	
LA	R5,S99TUPL+4	
OI	S99TUPTR,S99TUPLN	MARK END TU PTRLIST
LR	R1,R8	MACRO NEEDS R1 -> SVCAREA
DYNALLOC		
C	R15,=F'Ø'	SUCCESS?
BE	TDQOPEN	Y - GO REOPEN TDQ
ST	R15,DYNARET	N - LOAD DIAGNOSTICS
MVC	DYNAERR,S99ERROR	
MVC	DYNAINF,S99INFO	
MVC	WTOTXT1,TXTDYNA	BUILD WTO MSG
MVC	WTOTXT2,XTERR1	
MVC	WTOTXT3,XTDIAG2	
MVC	XLWRK3(2),DYNARET+2	
UNPK	XLWRK5,XLWRK3	
TR	XLWRK5,XTAB	
MVC	WTOTXT3+5(2),XLWRK5+2	
MVC	XLWRK3(2),DYNAERR	
UNPK	XLWRK5,XLWRK3	
TR	XLWRK5,XTAB	
MVC	WTOTXT3+15(4),XLWRK5	

```

MVC  XLWRK3(2),DYNAINF+2
UNPK XLWRK5,XLWRK3
TR   XLWRK5,XLTAB
MVC  WTOTXT3+27(4),XLWRK5
EXEC CICS WRITE OPERATOR
      TEXT(WTOMSG)
      TEXTLENGTH(LENG)
      CRITICAL
      B RETURN
      EXIT
*
TDQOPEN DS  ØH
MVC  CVDA,DFHVALUE(OPEN)
EXEC CICS SET
      TDQUEUE('CSSL')
      OPENSTATUS(CVDA)
      RESP(RESP)
CLC  RESP,DFHRESP(NORMAL)
BE   RETURN
MVC  WTOTXT1,XTTDDQ0
MVC  WTOTXT2,XTTERR1
MVC  WTOTXT3,XTTDIAG1
MVC  XLWRK3(2),RESP+2
UNPK XLWRK5,XLWRK3
TR   XLWRK5,XLTAB
MVC  WTOTXT3+7(4),XLWRK5
EXEC CICS WRITE OPERATOR
      TEXT(WTOMSG)
      TEXTLENGTH(LENG)
      CRITICAL
      B RETURN
      EXIT
*
RETURN DS  ØH
EXEC CICS RETURN
*
RBLN EQU (S99RBEND-S99RB)
*
DDNTU DC  AL2(DALDDNAM)
      DC  X'ØØØ1'
      DC  X'ØØØ8'
DDNAME DC  CL8'MSGUSR'
BLKSZTU DC  AL2(DALBLKSZ)
      DC  X'ØØØ1'
      DC  X'ØØØ2'
BLKSZ DC  X'ØØØ8'
LRECLTU DC  AL2(DALLRECL)
      DC  X'ØØØ1'
      DC  X'ØØØ2'
LRECL DC  X'ØØØ84'
RECFMTU DC  AL2(DALRECFM)

```



```

PGMID &MEMBER,&R=          PROTYPE STATEMENT
AGO .PGNAME
.PGNAME ANOP
.*
.*
THIS VARIABLE FOR TIME AND DATE STAMPING
LCLC &VMTMDT              TIME/DATE STAMP
LCLC &RELEASE              VERSION
.*
.*
AIF (T'&R NE '0').SETR
&RELEASE SETC 'Ø1Ø1'
AGO .DROP
.SETR ANOP
&RELEASE SETC '&R'
SPACE 1
.DROP ANOP
PUSH PRINT
PRINT GEN
*****
DC C'*,C' '
DC C'PROGRAM NAME:'
DC CL8'&MEMBER' NAME
DC C' ',C'*,C' '
DC C'PROGRAM VERSION:'
DC CL4'&RELEASE'
DC C' '
DC C'*,C' '
SPACE
DC C'ASSEMBLY TIME(HH.MM):'
&VMTMDT SETC '&SYSTIME'
DC C'&VMTMDT' ASSEMBLY TIME (HH.MM) AND
DC C' '
DC C'ASSEMBLY DATE(MM/DD/YY):'
&VMTMDT SETC '&SYSDATE'
DC C'&VMTMDT' DATE (MM/DD/YY) SAME AS LISTING
*****
POP PRINT
MEXIT
MEND
*-----
MACRO
*
*
*
*
PROTOTYPE STATEMENT
CSNAME &NAME
GBLC &CSECT
AIF ('&NAME' EQ '').NONAME
&CSECT SETC '&NAME'

```

```

        AGO      .SC
.NONAME ANOP
&CSECT  SETC    '&SYSECT'
.SC     ANOP
        PUSH    PRINT
        PRINT   GEN
*=====*
*
*
*
CSNAME  DC      CL8'&CSECT'
*
*
*=====*
        POP     PRINT
        MEND
        DFHCOVER
PEP     TITLE  'CUSTOMER INFORMATION CONTROL SYSTEM  P R O G R A M  E *
              R R O R  P R O G R A M '
DFHEISTG DSECT
*
* EXEC CICS Error Code Program COMMAREA (DERCODE)
*
DEERR0AI DS      0H
ERFUNCOD DS      CL2  FUNCTION CODE
ERERRCOD DS      CL6  ERROR CODE
ERRESNAM DS      CL8  RESOURCE NAME
ERTDQNAM DS      CL4  TD NAME
*
*          CL4'XXXX'  TD QUEUE NAME SPECIFIED BY CALLER
*
*          X'00000000'  DEFAULT TD QUEUE (CSMT)
*
*          CL4' '      DEFAULT TD QUEUE (CSMT)
*
*          X'FF'       DO NOT SEND MSG TO TD QUEUE
ERPGMCAL DS      CL8  CALLING PROGRAM
ERMSGS   DS      CL36 ERROR MSG
*
DEERR0AF EQU     *
          ORG     DEERR0AI
DEERR0AG DS      CL(DEERR0AF-DEERR0AI)
DEERR0AL EQU     L'DEERR0AG
*
DOUBLE   DS      D
CRESP    DS      F
YEAR     DS      F  CENTURY FROM CICS
DATE     DS      CL8 YYYYMMDD
CENTURY  DS      CL2 CENTURY ZONED
LEN      DS      H  RECORD LENGTH
FILENAME DS      CL8 FILE NAME
*
TDAREA   DS      0CL104
TDNAMEC  DS      CL4

```

```

MSGAREA DS CL100
*
COPY TACBREC
*
PUSH PRINT
PRINT GEN
DFHPCOM TYPE=DSECT
POP PRINT
*****
* * * * * P R O G R A M E R R O R * * * * *
* * * * * P R O G R A M * * * * *
*****
DFHPEP DFHEIENT CODEREG=(R4),DATAREG=(R6),EIBREG=(R11)
DFHPEP AMODE 31 @P1A
DFHPEP RMODE ANY
DFHREGS
RCOM EQU R8 EQUATE REGISTERS
RWKR1 EQU R1
RWKR2 EQU R2
RWKR3 EQU R3
RWKR14 EQU R14
RWKR15 EQU R15
B APMID
PGMID DFHPEP,R=0001
APGMID DS 0H
SR RWKR1,RWKR1
ICM RWKR1,B'0011',EIBCALEN Get COMMAREA length
BZ RETURNX ...no COMMAREA; exit
MVC FILENAME,FILENAMC Set File Name
*
* Acquire COMMAREA Address
*
EXEC CICS ADDRESS COMMAREA(RCOM)
*
USING DFHPEP_COMMAREA,RCOM Tell to ASM
*
* Get Time
*
EXEC CICS ASKTIME ABSTIME(DOUBLE) RESP(CRESP)
*
CLC CRESP,DFHRESP(NORMAL) Response OK ?
BNE ERROR ...No
*
* Format Time
*
EXEC CICS FORMATTIME ABSTIME(DOUBLE) YEAR(YEAR) *
YMMDD(TACBREC_DATE) RESP(CRESP)
*
CLC CRESP,DFHRESP(NORMAL) Response OK ?

```

```

        BNE      ERROR                ...No
*
* BUILD FILE CICSAB KEY
*
        MVC     DOUBLE,TACBREC_DATE FORMAT DATE
        MVC     TACBREC_DATE+2(6),DOUBLE
        L       RWKR1,YEAR              FORMAT CENTURY
        CVD     RWKR1,DOUBLE            XXXXXXXXXXXXX1997+
        UNPK    DOUBLE(5),DOUBLE+5(3)
        MVC     CENTURY,DOUBLE+1
        MVC     TACBREC_DATE(2),CENTURY
        UNPK    DOUBLE,EIBTIME         ØHHMMSS+
        OI      DOUBLE+L'DOUBLE-1,X'FØ' XXXXFHFHFMFMSFS
        MVC     TACBREC_TIME,DOUBLE+2
*
* Get Abending Program EIB
*
        LR      RWKR15,DFHEIBR         SAVE CURRENT EIB
        LA      DFHEIBR,PEP_COM_USERS_EIB
        MVC     TACBREC_TRX,EIBTRNID   Get Tran-id
        MVC     TACBREC_TSKN,EIBTASKN  Get Task Number
        LR      DFHEIBR,RWKR15        RESTORE CURRENT EIB
*
* Get Current Abend code from COMMAREA
*
        MVC     TACBREC_CABC,PEP_COM_CURRENT_ABEND_CODE
        OC      TACBREC_CABC,BLANK
*
* Get CICS Applid & Startcode
*
        EXEC    CICS ASSIGN APPLID(TACBREC_APPLID)
                STARTCODE(TACBREC_STC) RESP(CRESP)
*
        CLC     CRESP,DFHRESP(NORMAL)  Response OK ?
        BNE     ERROR                ...No
*
* Get Information from COMMAREA
*
        MVC     TACB_COM_STANDARD,PEP_COM_STANDARD
        MVC     TACB_COM_FUNCTION,PEP_COM_FUNCTION
        MVC     TACB_COM_COMPONENT,PEP_COM_COMPONENT
        MVC     TACB_COM_RESERVED,PEP_COM_RESERVED
        MVC     TACB_COM_CURRENT_ABEND_CODE,PEP_COM_CURRENT_ABEND_CODE
        OC      TACB_COM_CURRENT_ABEND_CODE,BLANK
        MVC     TACB_COM_ORIGINAL_ABEND_CODE,PEP_COM_ORIGINAL_ABEND_CODE
        OC      TACB_COM_ORIGINAL_ABEND_CODE,BLANK
        MVC     TACB_COM_USERS_EIB,PEP_COM_USERS_EIB
        MVC     TACB_COM_ABPROGRAM,PEP_COM_ABPROGRAM
        OC      TACB_COM_ABPROGRAM,BLANK

```

```

MVC TACB_COM_PSW,PEP_COM_PSW
MVC TACB_COM_REGISTERS,PEP_COM_REGISTERS
MVC TACB_COM_KEY,PEP_COM_KEY
MVC TACB_COM_STORAGE_HIT,PEP_COM_STORAGE_HIT
MVC TACB_COM_PADDING,PEP_COM_PADDING
MVC TACB_COM_RETURN_CODE,PEP_COM_RETURN_CODE
*
* Verify table before writing to file
*
NEXTTRX LA RWKR15,TABNOTRX
        DS  ØH
        CLI Ø(RWKR15),X'FF'          end table ?
        BE FTTRX                      .. yes
        CLC TACBREC_TRX,Ø(RWKR15)    exclude abend ?
        BE NOWRITEA                   .. yes
        L RWKR15,L'TABNOTRX(RWKR15)
        B NEXTTRX                      .. yes
FTTRX   DS  ØH
NEXTABND LA RWKR15,TABNOABN
        DS  ØH
        CLI Ø(RWKR15),X'FF'          end table ?
        BE WRITEA                      ..yes
        CLC TACBREC_CABC,Ø(RWKR15)   exclude abend ?
        BE NOWRITEA                   .. yes
        L RWKR15,L'TABNOABN(RWKR15)
        B NEXTABND                    .. yes
WRITEA  DS  ØH
*
* Add to CICSAB File
*
MVC LEN,=Y(TACBRECL)                SET RECORD LENGTH
MVC ERRESNAM,FILENAME                SET RESOURCE
*
EXEC CICS WRITE FROM(TACBREC) FILE(FILENAME) *
      LENGTH(LEN) RIDFLD(TACBREC_KEY) RESP(CRESP)
*
CLC CRESP,DFHRESP(NORMAL)           Response OK ?
BNE ERROR                            ...No
XC ERRESNAM,ERRESNAM                 Reset Resource
*
NOWRITEA DS  ØH
MVI MSGAREA,C' '
MVC MSGAREA+1(L'MSGAREA-1),MSGAREA
MVC MSGAREA(Ø7),=CLØ7'Program'
MVC MSGAREA+8(8),PEP_COM_ABPROGRAM
MVC MSGAREA+17(24),=CL24'ABEND-Current Abendcode:'
MVC MSGAREA+42(4),PEP_COM_CURRENT_ABEND_CODE
MVC MSGAREA+47(19),=CL19'Original Abendcode:'
MVC MSGAREA+66(4),PEP_COM_ORIGINAL_ABEND_CODE

```

```

      CLI  PEP_COM_STORAGE_HIT,PEP_COM_NO_HIT No storage Hit
      BE   NOHIT
      MVC  MSGAREA+71(8),=CL08'Storage:'
      MVC  MSGAREA+79(4),=CL04'CDSA'
      CLI  PEP_COM_STORAGE_HIT,PEP_COM_CDSA_HIT
      BE   NOHIT
      MVC  MSGAREA+79(5),=CL04'ECDSA'
      CLI  PEP_COM_STORAGE_HIT,PEP_COM_ECDSA_HIT
      BE   NOHIT
      MVC  MSGAREA+79(5),=CL04'ERDSA'
NOHIT  DS   0H
      MVC  MSGAREA+85(7),=CL07'Tranid:'
      MVC  MSGAREA+92(4),TACBREC_TRX
      MVC  TDAREA(L'TDNAME),TDNAME
*
      EXEC CICS WRITEQ TD QUEUE(TDNAMEC) FROM(TDAREA+4)          *
          LENGTH(=Y(L'TDAREA-4)) NOHANDLE
*
RETURNOK DS   0H
        LA   RWKR1,PEP_COM_RETURN_OK
        B    RETURN
        DFHEJECT
*
RETURNER DS   0H          Return for error cases
        LA   RWKR1,PEP_COM_RETURN_DISABLE
RETURN   DS   0H
        ST   RWKR1,PEP_COM_RETURN_CODE
RETURNX  DS   0H
*
      EXEC CICS RETURN
*
      TITLE 'CICS ERROR ROUTINE'
ERROR    DS   0H
        MVC  ERFUNCOD,EIBFN          SET FUNCTION CODE
        MVC  ERERRCOD,EIBRCODE       SET ERROR CODE
        MVC  ERPGMCAL,CSNAME         SET MY NAME
*
      EXEC CICS IGNORE CONDITION ERROR
*
      EXEC CICS LINK PROGRAM('DERCODE') COMMAREA(DEERR0AI)      *
          LENGTH(=Y(DEERR0AL))
*
        B    RETURN
* DEFAULTS
FILENAMC DC   CL8'CICSAB'
TDNAME   DC   CL4'CSMT'
BLANK    DC   CL8' '
*
* Table trx abend: do not write into CICSAB
* 4 BYTE tranid

```


CICS system generator

We use CICS/ESA Version 4.1 on different LPARs for a wide variety of work and we have to create a lot of CICS regions on all of these systems. Because of this requirement, we have developed a tool that generates CICS regions on different LPARs.

The tool is made for CICS/ESA Version 4.1 (MVS/ESA).

Some options are not in use yet (eg the RACF part), but I have left them in the panel structure for future use. The tool is menu-driven.

Before you can use this tool, the rest of the system must be ready to run CICS on your MVS system (eg SubSystemName table entries, security attributes, SMS entries, VTAM definitions, etc).

You should be very careful not to delete existing datasets before the new datasets are created!

The main menu can be called from a PANEL with the following statements:

```
+4 |CICS SYSTEM GENERATOR
4, 'PANEL(CICSBUIL)'
```

The system generator main menu is shown in Figure 1.

The steps must all end in a return code zero. When there is a problem, it is best to delete the datasets you have created, solve the problem, and then start again at the beginning.

CICS GENERATOR PANEL DEFINITIONS

The following panels are invoked:

CICSBUIL

```
)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(RED)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
```



```

CICSBUIL  ————— CICS SYSTEM GENERATOR  ————— Enter option
OPTION  ==>

      1 - RACF definitions  ONLY SECADM (for future use)
      2 - Global and LOCAL catalog,CSDFILE
      3 - Dump and Trace datasets
      4 - Work files
      5 - Journal datasets (system and user)
      6 - Restart datasets (restart and XRF)
      7 - Sample file FILEA (optional)
      8 - CICS procedure in SYS1.PROCLIB.CICS
      9 - CICS : JCLLIB, TABLOAD, TABSRC (inclusive SITOVER)
          and DFHJPDS (inclusive DFHARCH)
     10- Initial filling tabsrc (macro table sources)

      IV- IVP  (CICS must be started)

      I - Information

```

Figure 1: System generator main menu

```

! TYPE(TEXT)    INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT)    INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
* TYPE(TEXT)    INTENS(HIGH) JUST(ASIS) COLOR(GREEN) HILITE(REVERSE)
| TYPE(TEXT)    INTENS(high)  JUST(ASIS) COLOR(blue)
+ TYPE(TEXT)    INTENS(LOW)  color(white)
_ TYPE(INPUT)   INTENS(LOW)
)BODY
|—————'CICS SYSTEM GENERATOR  |—————
%OPTION  ==>_zcmd
+
      ~1 - RACF definitions ?ONLY SECADM (for future use)+
      ~2 - Global and LOCAL catalog,CSDFILE ¢
      ~3 - Dump and Trace datasets
      ~4 - Work files
      ~5 - Journal datasets (system and user)
      ~6 - Restart datasets (restart and XRF)
      ~7 - Sample file FILEA (optional)
      ~8 - CICS procedure in SYS1.PROCLIB.CICS
      ~9 - CICS : JCLLIB, TABLOAD, TABSRC (inclusive SITOVER)
          ~
            and DFHJPDS (inclusive DFHARCH)
     ~10- Initial filling tabsrc (macro table sources)
+

```

```

+
+
+       ~IV-  IVP  (CICS must be started)
+
+       !I -  Information
+
)INIT
  .HELP = TUTORPAN           /* insert name of tutorial panel   */
/*&zcmd=' ' */
/*)REINIT */
/* &zcmd=&z Refresh(zcmd) */
)PROC
  &ZSEL=TRANS(TRUNC(&ZCMD, '.'))
/*      1, 'CMD(CICSRACF)'           */
      2, 'CMD(CICSDFC)'
      3, 'CMD(CICSDEFD)'
      4, 'CMD(CICSDEFW)'
      5, 'CMD(CICSDEFJ)'
      6, 'CMD(CICSDEFR)'
      7, 'CMD(CICSDEFS)'
      8, 'CMD(CICSDEFP)'
      9, 'CMD(CICSDEFA)'
     10, 'CMD(CICSDEFI)'
     IV, 'CMD(CICSIVPB)'
     I, 'PGM(ISPTUTOR) PARM(BGB000000)'
     X, 'EXIT'
     ' ', ' '
     *, '?' )
  &ZTRAIL = .TRAIL
  &PFKEY = .PFKEY
)END

```

SUBMIT

```

)ATTR
  _ TYPE(INPUT) CAPS(OFF) INTENS(HIGH) FORMAT(&MIXED)

)BODY WIDTH(&ZWIDTH) EXPAND(||)
%&CIVER EDIT -----| - |-----+
%COMMAND ==>_ZCMD           | |           %SCROLL
==>_Z %
+ **** IF YOU WISH TO SUBMIT THIS JOB NOW, TYPE 'SUBMIT' AND PRESS
ENTER. **** %
)INIT
  .HELP = ISR20000
  .ZVARS = 'ZSCED'

&MIXED = MIX
IF (&ZPDMIX = N)
  &MIXED = EBCDIC

```

```
)PROC
)END
```

CICSDEFC

```
)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+ Catalogs and initial CSDFILE
+
+
+ CICS system id ....$z +
+ Volume ....$vol +
+ Lpar ....$lpar+
+
+ CICS VRM ... $vrm+ (optional, you can leave this field blank
+ if you do not use VRM in your CICS
+ dataset naming convention)
+
+ PF3 = Exit
+
)INIT
.ZVARS = 'SYSID'
.HELP = TUTORPAN /* Insert name of tutorial panel */
&sysid=' '
&vol=' '
&lpar=' '
&pfkey=.pfkey
)PROC
VER (&SYSID,NB,MSG=cicst001)
VER (&vol,NB,MSG=cicst001)
VER (&lpar,NB,MSG=cicst001)
&pfkey=.pfkey
)END
```

CICSDEFD

```
)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+ Dump and Trace datasets
+
+
+ CICS system id ....$z +
+ Volume ....$vol +
+ LPAR ....$lpar+
+
+
+
+
+ PF3 = Exit
+
)INIT
.ZVARS = 'SYSID'
.HELP = TUTORPAN /* Insert name of tutorial panel */
&sysid=' '
&vol=' '
&lpar=' '
&pfkey=.pfkey
)PROC
VER (&SYSID,NB,MSG=cicst001)
VER (&vol,NB,MSG=cicst001)
VER (&lpar,NB,MSG=cicst001)
&pfkey=.pfkey
)END
```

CICSDEFW

```
)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
```

```

$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+ Work files (TEMP INTRA)
+
+
+ CICS system id ....$z +
+ Volume ....$vol +
+ Lpar ....$lpar+
+
+
+
+
+ PF3 = Exit
+
)INIT
.ZVARS = 'SYSID'
.HELP = TUTORPAN /* Insert name of tutorial panel */
&sysid=' '
&vol=' '
&lpar=' '
&pfkey=.pfkey
)PROC
VER (&SYSID,NB,MSG=cicst001)
VER (&vol,NB,MSG=cicst001)
VER (&lpar,NB,MSG=cicst001)
&pfkey=.pfkey
)END

```

CICSDEFJ

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)

```

```

? TYPE(TEXT)    INTENS(LOW)  JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT)    INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT)    INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT)    INTENS(high)  JUST(ASIS) COLOR(blue)
+ TYPE(TEXT)    INTENS(LOW)  color(white)
_ TYPE(INPUT)   INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+   Journal datasets
+
+
+   CICS system id   ....$z +
+   Volume           ....$vol  +
+   Lpar             ....$lpar+
+
+   CICS VRM        ... $vrm+ (optional, you can leave this field blank
+                           if you do not use VRM in your CICS
+                           dataset naming convention)
+
+   PF3 = Exit
+
)INIT
.ZVARS = 'SYSID'
.HELP = TUTORPAN          /* Insert name of tutorial panel   */
  &sysid=' '
  &vol=' '
  &lpar=' '
  &vrm=' '
  &pfkey=.pfkey
)PROC
  VER (&SYSID,NB,MSG=cicst001)
  VER (&vol,NB,MSG=cicst001)
  VER (&lpar,NB,MSG=cicst001)
  &pfkey=.pfkey
)END

```

CICSDEFR

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF)  JUST(LEFT)
$ TYPE(INPUT)  INTENS(LOW)  PAD(_)
% TYPE(TEXT)   INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT)   INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT)   INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT)   INTENS(LOW)  JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT)   INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT)   INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)

```

```

| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+ Recovery datasets (RSD XRCTL XRMSG)
+
+
+ CICS system id ....$z +
+ Volume ....$vol +
+ Lpar ....$lpar +
+
+ CICS VRM ... $vrm+ (optional, you can leave this field blank
+ if you do not use VRM in your CICS
+ dataset naming convention)
+
+ PF3 = Exit
+
)INIT
.ZVARS = 'SYSID'
.HELP = TUTORPAN /* Insert name of tutorial panel */
&sysid=' '
&vol=' '
&lpar=' '
&pfkey=.pfkey
)PROC
VER (&SYSID,NB,MSG=cicst001)
VER (&vol,NB,MSG=cicst001)
VER (&lpar,NB,MSG=cicst001)
&pfkey=.pfkey
)END

```

CICSDEFS

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY

```

```

|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>>_ZCMD
+
+
+   Sample dataset (optional)
+
+
+   CICS system id   ....$z +
+   Volume           ....$vol +
+   Lpar             ....$lpar +
+
+   CICS VRM         ... $vrm+ (optional, you can leave this field blank
+                               if you do not use VRM in your CICS
+                               dataset naming convention)
+
+   PF3 = Exit
+
)INIT
  .ZVARS = 'SYSID'
  .HELP = TUTORPAN           /* Insert name of tutorial panel   */
  &sysid=' '
  &vol=' '
  &lpar=' '
/* &pfkey=.pfkey           */
)PROC
  VER (&SYSID,NB,MSG=cicst001)
  VER (&vol,NB,MSG=cicst001)
  VER (&lpar,NB,MSG=cicst001)
/* &pfkey=.pfkey           */
)END

```

CICSDEFP

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>>_ZCMD
+
+
+   Procedure (stored in the SYS1.PROCLIB.CICS)

```



```

+
+
+ CICS system id    ....$z +
+ LPAR              ....$lpar+
+
+ CICS VRM          ... $vrm+ (optional, you can leave this field blank
+                      if you do not use VRM in your CICS
+                      dataset naming convention)
+
+
+ PF3 = Exit
+
)INIT
  .ZVARS = 'SYSID'
  .HELP = TUTORPAN          /* Insert name of tutorial panel    */
  &sysid=' '
  &lpar=' '
  &pfkey=.pfkey
)PROC
  VER (&SYSID,NB,MSG=cicst001)
  VER (&LPAR,NB,MSG=cicst001)
  &pfkey=.pfkey
)END

```

CICSDEFA

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>>_ZCMD
+
+
+ Allocate several libraries (JCLLIB TABSRC TABLOAD .....)
+
+ CICS system id    ....$z +
+ Volume           ....$vol +
+ Lpar              ....$lpar+
+ Connects to DB2  ....$db2sys+ (required)
+ Connects to MQ   ....$mqm + (optional)

```

```

+
+ CICS VRM          ... $vrm+ (optional, you can leave this field blank
+                      if you do not use VRM in your CICS
+                      dataset naming convention)
+
+ When you substitute an MQSeries connection, you also have to
+ execute option 6 from the extra functionality option.
+
+ PF3 = Exit
+
)INIT
.ZVARS = 'SYSID'
.HELP = TUTORPAN          /* Insert name of tutorial panel   */
.&sysid=' '
.&vol=' '
.&lpar=' '
.&db2sys=' '
.&mqm=' '
.&pfkey=.pfkey
)PROC
VER (&SYSID,NB,MSG=cicst001)
VER (&vol,NB,MSG=cicst001)
VER (&lpar,NB,MSG=cicst001)
VER (&db2sys,NB,MSG=cicst001)
.&pfkey=.pfkey
)END

```

CICSDEFI

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+ Initial filling TABSRC : SIT, DCT, JCT, MCT, PLTPI, PLTSD
+
+
+ CICS system id ....$z +

```

```

+ Volume          ....$vol  +
+ Lpar            ....$lpar+
+
+
+ After the allocation and filling of the dataset, you must generate
+ the macro tables (not included in this tool).
+
+ PF3 = Exit
+
)INIT
  .ZVARS = 'SYSID'
  .HELP = TUTORPAN          /* Insert name of tutorial panel */
  &sysid=' '
  &vol=' '
  &lpar=' '
  &pfkey=.pfkey
)PROC
  VER (&SYSID,NB,MSG=cicst001)
  VER (&vol,NB,MSG=cicst001)
  VER (&lpar,NB,MSG=cicst001)
  &pfkey=.pfkey
)END

```

CISIVPB

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(INPUT) INTENS(LOW) PAD(_)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR|-----
%COMMAND ==>_ZCMD
+
+
+ Installation Verification Procedure (CICS must be started)
+
+
+ CICS system id ....$z +
+ LPAR          ....$lpar+
+
+ CICS VRM      ... $vrm+ (optional, you can leave this field blank
+                  if you do not use VRM in your CICS
+                  dataset naming convention)

```

```

+
+
+   PF3 = Exit
+
)INIT
  .ZVARS = 'SYSID'
  .HELP = TUTORPAN          /* Insert name of tutorial panel   */
    &sysid=' '
    &lpar=' '
    &pfkey=.pfkey
)PROC
  VER (&SYSID,NB,MSG=cicst001)
  VER (&LPAR,NB,MSG=cicst001)
  &pfkey=.pfkey
)END

```

BGB00000

```

)ATTR
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
$ TYPE(OUTPUT) INTENS(LOW) CAPS(OFF) JUST(ASIS)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(TURQ)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(LOW) JUST(ASIS) COLOR(YELLOW)
# TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) CAPS(ON)
)body
|-----'CICS SYSTEM GENERATOR |-----
%OPTION ==>_ZCMD
+
%
+
          This tutorial gives some online help about the

          'CICS SYSTEM GENERATOR+

          %C+ CICS SYSTEM GENERATOR

          %R+ RACF

)PROC
  &ZSEL = TRANS(&ZCMD
                C,BGB000C0
                R,BGB000R0
                )
)END

```

BGB000R0

```
)ATTR default(¬,%)
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
¬ TYPE(TEXT) INTENS(LOW) SKIP(ON) COLOR(TURQ)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR |-----
```

¬ Not in use yet (for future use)

(continued on next page)

```
)PROC
/* &ZCONT=BGC000R1*/
)END
```

BGB000C0

```
ATTR default(¬,%)
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
¬ TYPE(TEXT) INTENS(LOW) SKIP(ON) COLOR(TURQ)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|-----'CICS SYSTEM GENERATOR |-----
```

¬ With this panel/clist structure you can create a CICS system with mostly default settings.

You have to follow the steps in sequence.

You have to generate the macro tables on the destination LPAR.

Before you can start the CICS region be sure that all the other components are ready (MVS VTAM HSM/SMS RACF)

The CICS system that will be generated has a form of CICxx where xx is a variable (eg CICAP or CICAD) to make a difference between production and development, and a follow-up character (A B C ...)

(continued on next page)

```
)PROC
```

```
&ZCONT=BGB000C1
)END
```

BGB00C1

```
)ATTR default(¬,%)
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
¬ TYPE(TEXT) INTENS(LOW) SKIP(ON) COLOR(TURQ)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|—————'CICS SYSTEM GENERATOR |—————
```

¬ The following datasets will be allocated :

- Optie 2 : CICS Global Catalog Dataset
CICS Local Catalog Dataset
CICS CSD (CICS SYSTEM DEFINITION Dataset)
- At the same time there will be made a CSD LIST with
default groups
- Optie 3 : CICS Trace Datasets (DFHAUXT and DFHBUXT)
CICS Dump Datasets (DFHDMPA and DFHDMPB)
- Optie 4 : CICS Temporary Dataset
CICS INTRA-PARTITION TRANSIENT Dataset
- Optie 5 : CICS Journal Datasets (J01A J01B J01X J02A)
CICS Automatic Journal Archive Control Dataset
- Optie 6 : CICS Restart Dataset
CICS XRF Datasets

(continued on next page)

```
)PROC
&ZCONT=BGB000C2
)END
```

BGB000C2

```
)ATTR default(¬,%)
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
```

```

¬ TYPE(TEXT) INTENS(LOW) SKIP(ON) COLOR(TURQ)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
| TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
|—————'CICS SYSTEM GENERATOR |—————

```

¬ The following datasets will be allocated :

Optie 7 : CICS Sample Dataset FILEA

Optie 8 : CICS Procedure (in the SYS1.PROCLIB.CICS)

Optie 9 : CICS related datasets

- CICxx.JCLLIB
- CICxx.TABSRC (inclusive SITOVER)
- CICxx.TABLOAD
- CICxx.DFHJPDS Automatic Journal Archiving (inclusive DFH\$ARCH)

Optie 10: CICS Initial TABSRC with macro sources

- SIT DCT JCT MCT PLTPI PLTSD

(continued on next page)

```

)PROC
  &ZCONT=BGB000C3
)END

```

BGB000C3

```

)ATTR default(¬,%)
@ TYPE(OUTPUT) INTENS(HIGH) CAPS(OFF) JUST(LEFT)
¬ TYPE(TEXT) INTENS(LOW) SKIP(ON) COLOR(TURQ)
% TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(GREEN)
¢ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(red)
~ TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(WHITE)
? TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(YELLOW) HILITE(REVERSE)
' TYPE(TEXT) INTENS(HIGH) JUST(ASIS) COLOR(green) HILITE(REVERSE)
* TYPE(TEXT) INTENS(high) JUST(ASIS) COLOR(blue)
+ TYPE(TEXT) INTENS(LOW) color(white)
_ TYPE(INPUT) INTENS(LOW)
)BODY
*—————'CICS SYSTEM GENERATOR *—————

```

¬ Additional actions:

Responsible	Action
Department	
<hr/>	
RCGCM	Change SYS1.PARMLIB - IEAICS00 - IEAIPS00
RCGNET	Change CICS VTAM ACB (SYS1.VTAMLST)
RCGOM	Change AOC
RCGSM	Change SMS
RCGSECM	Change RACF

```
)PROC
/* &ZCONT=BGB000C3 */
)END
```

CICS GENERATOR EXEC DEFINITIONS

The following EXECs are invoked:

CICSDEFA

```
/* REXX */
ADDRESS TSO
"ALLOC F(ISPFIL) DA('your.JCL.libray') SHR REUSE"
USERID=USERID()
ADDRESS ISPEXEC
"LIBDEF ISPSLIB DATASET ID('your.skel.libray')"
DO
"DISPLAY PANEL (CICSDEFA)"
SYS='CIC' || SYSID
MQHAAK =""
IF MQM =''
THEN
DO
MQHAAK =","
MQSERIE1="CSCQPARM='SN="
MQSERIE2=MQM
MQSERIE3=" ,TN=001,IQ="
MQSERIE4=" .INITQ' )"
MQSYS='CIC' || SYSID
END
ELSE NOP
'FTOPEN'
```



```
'FTINCL CICSDEFA'
'FTCLOSE NAME(CICSDEFA)'
"EDIT DATASET('your.JCL.library(CICSDEFA)') PANEL(SUBMIT)"
END
/* "DISPLAY PANEL (CICSBUIL)" */
```

CICSDEFC

```
/* REXX */
ADDRESS TSO
"ALLOC F(ISPF) DA('your.JCL.library') SHR REUSE"
USERID=USERID()
ADDRESS ISPEXEC
"LIBDEF ISPLIB DATASET ID('your.skel.library')"
DO
"DISPLAY PANEL (CICSDEFC)"
SYS='CIC' || SYSID
ENV=SUBSTR(SYS,4,1)
'FTOPEN'
'FTINCL CICSDEFC'
'FTCLOSE NAME(CICSDEFC)'
"EDIT DATASET('your.JCL.library(CICSDEFC)') PANEL(SUBMIT)"
END
/* "DISPLAY PANEL (CICSBUIL)" */
```

CICSDEFD

```
/* REXX */
ADDRESS TSO
"ALLOC F(ISPF) DA('your.JCL.library') SHR REUSE"
USERID=USERID()
ADDRESS ISPEXEC
"LIBDEF ISPLIB DATASET ID('your.skel.library')"
DO
"DISPLAY PANEL (CICSDEFD)"
SYS='CIC' || SYSID
'FTOPEN'
'FTINCL CICSDEFD'
'FTCLOSE NAME(CICSDEFD)'
"EDIT DATASET('your.JCL.library(CICSDEFD)') PANEL(SUBMIT)"
END
/* "DISPLAY PANEL (CICSBUIL)" */
```

Editor's note: this article will be continued next month.

*Paul Jansen
Systems Programmer
Interpay (The Netherlands)*

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Further CICS V3.3 shutdown statistics

The following programs were developed after we submitted the programs for the article entitled *Gathering CICS V3.3 shutdown statistics* published in *CICS Update*, Issue 144, November 1997, and Issue 145, December 1997.

These programs accumulate the statistics for DTB, dumps, ISC/IRC, Task Class, VTAM, and Transient Data Queues. The necessary EXEC CICS LINK statements were added to the 'driver' program to accommodate the additional programs. The definitions were added to the Resource Definition File as needed. The driver program has also been expanded to include the task count.

After one of the busier production regions was converted to Version 3.3, we discovered that the Transaction Statistics program (STATTRAN) did not accommodate a transaction total of more than 99,999. The definition for variable TRPTA was changed to PL4, a new edit pattern was defined, and the total line was re-defined to accommodate the larger number.

(EXPANDED) DRIVER PROGRAM

```
TITLE ' STAT01 - SPOOL STATISTICS AT END OF DAY '
*****
* THIS PROGRAM GETS THE DATE, TIME, JOBNAME, SYSID, AND APPLID, AND *
* OPENS THE SPOOL FOR STATISTICS COLLECTION. IT PASSES THAT *
* INFORMATION, VIA A COMMAREA, TO THE COLLECTION PROGRAMS. *
* AFTER THE OTHER PROGRAMS FINISH, THIS PROGRAM CLOSSES THE SPOOL. *
* THE LINKED-TO PROGRAMS DO THE ACTUAL STATISTICS COLLECTION AND *
* WRITE TO THE SPOOL. *
*****
DFHEISTG DSECT
*
COMMFLDS DS      ØCL44
CAPPLID  DS      CL8
CSYSID   DS      CL4
CJOBNAME DS      CL8
CDATE    DS      CL8
CTIME    DS      CL8
CSTOKEN  DS      CL8
*
ABSTIME  DS      PL8
```

```

APPLID DS CL8
SYSID DS CL4
JOBNAME DS CL8
DATE DS CL8
TIME DS CL8
DS ØF
STOKEN DS CL8
RESP DS F
CVRTAREA DS D
ZAPTAREA DS PL4
R3 EQU 3
R4 EQU 4
R5 EQU 5
R6 EQU 6
R7 EQU 7
R8 EQU 8
R9 EQU 9
R1Ø EQU 1Ø
*
* ** TASK CONTROL STATISTICS DSECT **
COPY DFHAØ1DS
*
STATØ1 CSECT
*
*
** GET DATE, TIME, APPLID, SYSID, JOBNAME ....
**
EXEC CICS ASKTIME ABSTIME (ABSTIME)
EXEC CICS FORMATTIME ABSTIME(ABSTIME) -
DATESEP('/') MMDDYY (DATE) -
TIME (TIME) TIMESEP
**
EXEC CICS ASSIGN APPLID(APPLID) SYSID (SYSID)
EXEC CICS INQUIRE SYSTEM JOBNAME (JOBNAME)
**
** OPEN THE SPOOL AND GET THE TOKEN **
EXEC CICS SPOOLOPEN OUTPUT TOKEN(STOKEN) USERID('*') -
NODE('*') CLASS(OUTCLAS) ASA PRINT NOHANDLE
**
** MOVE THE INFORMATION TO THE COMMUNICATON AREA **
MVC CAPPLID(8),APPLID
MVC CSYSID(4),SYSID
MVC CJOBNAME(8),JOBNAME
MVC CDATE(8),DATE
MVC CTIME(8),TIME
MVC CSTOKEN(8),STOKEN
**
** WRITE OUT THE HEADING INFORMATION
HDNG EQU *
MVC HJOBNM(8),JOBNAME

```

```

MVC  HAPPLID(8),APPLID
MVC  HSYSID(4),SYSID
MVC  HDATE(8),DATE
MVC  HTIME(8),TIME
MVC  PRINTLN(133),HEADING
BAL  R10,WRITESPL
MVC  PRINTLN(133),UNDRSCOR
BAL  R10,WRITESPL
MVC  PRINTLN(133),BLANKS
BAL  R10,WRITESPL

```

```

*
**
*

```

COLLECT AND WRITE OUT NUMBER OF TASKS

```

      USING DFHA01DS,R9
      EXEC CICS COLLECT STATISTICS TASKCONTROL SET (R9)

```

```

*
*

```

```

L      R6,A01KCTTA
CVD   R6,CVRTAREA
ZAP   ZAPTAREA(4),CVRTAREA+4(4)
OI    ZAPTAREA+3,X'0F'
MVC   TASKS(8),PTRN
ED    TASKS(8),ZAPTAREA
MVC   KCJOB(8),JOBNAME
MVC   KCDATE(8),DATE
MVC   KCTIME(8),TIME
MVC   PRINTLN(133),KCLNE1
BAL   R10,WRITESPL
MVC   PRINTLN(133),BLANKS
BAL   R10,WRITESPL
MVC   PRINTLN(133),KCLNE2
BAL   R10,WRITESPL
MVC   PRINTLN(133),BLANKS
BAL   R10,WRITESPL
MVC   PRINTLN(133),UNDRSCOR
BAL   R10,WRITESPL

```

```

*
*
**
*

```

LINK TO OTHER STATISTICS COLLECTION PROGRAMS

```

**
**

```

```

*   LINK TO JOURNAL STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATJOUR') COMMAREA (COMMFLDS)      -
      LENGTH(44)

```

```

**
**

```

```

*   LINK TO FILE STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATFILE') COMMAREA (COMMFLDS)     -
      LENGTH(44)

```

```

**
**

```

```

*   LINK TO LSR POOL STATISTICS COLLECTION PROGRAM *

```

```

EXEC CICS LINK PROGRAM ('STATLSRP') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO VTAM STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATVTAM') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO AUTOINSTALL STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATAUTO') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO TERMINAL STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATTERM') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO ISC/IRC STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATISCS') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO TASK CLASS STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATTCLS') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO TRANSACTION STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATTRAN') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO TRANSIENT DATA STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATDQS') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO DUMP STATISTICS COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATDUMP') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
** * LINK TO DYNAMIC TRANSACTION BACKOUT COLLECTION PROGRAM *
EXEC CICS LINK PROGRAM ('STATDTBS') COMMAREA (COMMFLDS) -
      LENGTH(44)
**
*
**
EXIT EQU *
**          ** CLOSE THE SPOOL AND EXIT **
EXEC CICS SPOOLCLOSE TOKEN(STOKEN) NOHANDLE
EXEC CICS RETURN
*
*          ** WRITE THE SPOOL RECORD **
WRITESPL EQU *
EXEC CICS SPOOLWRITE TOKEN(STOKEN) FROM(PRINTLN) -
      FLENGTH(LINELEN) NOHANDLE

```

```

BR      R10
*
*****
OUTCLAS DC    CL1'Q'
PTRN    DC    X'40202020202020202120'
PRINTLN DS    CL133
LINELEN DC    F'133'
**
TASKNO  DC    PL4'0'
*
BLANKS  DS    0CL133      ** BLANK LINE  **
        DC    CL1'0'
        DC    CL132' '
UNDRSCOR DS  0CL133      ** UNDERSCORE LINE  **
        DC    CL1'0'
        DC    132C'_'
*
                                ** HEADING LINE DEFINITION **
HEADING DS    0CL133
        DC    CL1'1'
        DC    CL8'JOBNAME:'
HJOBNM  DC    CL8' '
        DC    CL10'  APPLID:'
HAPPLID DC    CL8' '
        DC    CL9'  SYSID:'
HSYSID  DC    CL4' '
        DC    CL8'  DATE:'
HDATE   DC    CL8' '
        DC    CL8'  TIME:'
HTIME   DC    CL8' '
        DC    CL53' '
** **
*
* ***** START TASK COUNT DEFINITIONS *****
*
                                ** TASK COUNT DETAIL LINE **
KCLNE1  DS    0CL133
KCDCNTL DC    CL1'0'
KCJOB   DC    CL8' '
        DC    CL2' '
KCDATE  DC    CL8' '
        DC    CL2' '
KCTIME  DC    CL8' '
        DC    CL2' '
        DC    CL102' '
*
                                ** TASK COUNT DETAIL LINE **
KCLNE2  DS    0CL133
KCDCNTL2 DC   CL1'0'
        DC    CL2' '
KCHEAD  DC    CL17' NUMBER OF TASKS:'
        DC    CL4' '
TASKS   DC    CL8' '

```

```

          DC    CL101' '
* ***** END TASK COUNT DEFINITIONS ***** **
*
*
          LTORG
          END

```

DTB STATISTICS PROGRAM

```

          TITLE ' STATDTBS - DYNAMIC TRANSACTION BACKOUT STATISTICS '
DFHEISTG DSECT

```

```

*
          DS    0F
RESP      DS    F
CVRTAREA DS    D
ZAPTAREA DS    PL3
R2        EQU  2
R3        EQU  3
R4        EQU  4
R5        EQU  5
R6        EQU  6
R7        EQU  7
R8        EQU  8
R9        EQU  9
R10       EQU 10

```

```

*
COMMFLDS DSECT
APPLID   DS    CL8
SYSID    DS    CL4
JOBNAME  DS    CL8
DATE     DS    CL8
TIME     DS    CL8
STOKEN   DS    CL8

```

```

*
          ** DTB GLOBAL STATISTICS **
          COPY DFHA05DS

```

```

*
STATDTBS DFHEIENT CODEREG=(3),DATAREG=(13),EIBREG=11

```

```

*
          L    R2,DFHEICAP
          USING COMMFLDS,R2

```

```

*
          BAL  R4,HDNG          PAGE HEADINGS
          BAL  R4,FRSTHEAD      DTB STATISTICS HEADINGS
          BAL  R8,DTBS          DTB STATISTICS DETAIL

```

```

*
HDNG      EQU  *
          MVC  HJOBNM(8),JOBNAME
          MVC  HAPPLID(8),APPLID

```



```

*
DTBHD1  DS    ØCL133
DTHCNTL DC    CL1'Ø'
DTLN1H  DC    CL38' NUMBER OF RECORDS LOGGED BY DTB'
DTLN1D  DC    CL94' '
*
DTBHD2  DS    ØCL133
         DC    CL1'Ø'
DTLN2H  DC    CL38' NUMBER OF RECORDS SPILLED BY DTB'
DTLN2D  DC    CL94' '
*
* ***** END DTB STATISTICS DEFINITIONS ***** **
*
      LTORG
      DFHEISTG
      DFHEIEND
      END

```

DUMP STATISTICS PROGRAM

```

      TITLE ' STATDUMP - DUMP STATISTICS COLLECTION PROGRAM'
DFHEISTG DSECT
*
      DS    ØF
RESP     DS    F
CVRTAREA DS    D
ZAPTAREA DS    PL3
R2       EQU  2
R3       EQU  3
R4       EQU  4
R5       EQU  5
R6       EQU  6
R7       EQU  7
R8       EQU  8
R9       EQU  9
R1Ø     EQU 1Ø
*
COMMFLDS DSECT
APPLID  DS    CL8
SYSID   DS    CL4
JOBNAME DS    CL8
DATE    DS    CL8
TIME    DS    CL8
STOKEN  DS    CL8
*
*           ** DUMP DOMAIN TRANSACTION DUMP STATISTICS **
      COPY  DFHDRDS
      COPY  DFHTDRDS
*

```



```

MVC PRINTLN(133),UNDRSCOR
BAL R10,WRITESPL
AP LNECNT,=P'3'
BR R4
*
DUMPS EQU *
      USING DFHSDRDS,R9
*
      EXEC CICS INQUIRE SYSDUMPCODE START
NXTDUMP EQU *
      EXEC CICS INQUIRE SYSDUMPCODE (SYDUMPCD) NEXT RESP (RESP) -
          CURRENT(CURRDMP) SYSDUMPING(SYSDUMP)
      CLC RESP(4),DFHRESP(END)
      BE DUMPEND
      BAL R8,DUMPSTAT
      B NXTDUMP
*
      BAL R8,DUMPSTAT
*
DUMPEND EQU *
      EXEC CICS INQUIRE SYSDUMPCODE END
*
MVC PRINTLN(133),UNDRSCOR
BAL R10,WRITESPL
BR R7
*
DUMPSTAT EQU *
* SYSTEM DUMPS TAKEN
      L R6,CURRDMP
      CVD R6,CVRTAREA
      ZAP ZAPTAREA(3),CVRTAREA+5(3)
      OI ZAPTAREA+2,X'0F'
      MVC DUTRATA+20(8),SYDUMPCD
      MVC DUTRATA(6),PTRN
      ED DUTRATA(6),ZAPTAREA
* SYSTEM DUMPS SUPRESSED
      CLC SYSDUMP,DFHVALUE(NOSYSDUMP)
      BE NODUMP
      MVC DUTRASU(6),=C'NO '
      B DUMPFIN
NODUMP MVC DUTRASU(6),=C'YES '
*
DUMPFIN MVC PRINTLN(133),DULNE1
        BAL R10,WRITESPL
*
DUBACK BR R8
*
DUMPT EQU *
      MVC PRINTLN(133),BLANKS
      USING DFHTDRDS,R9

```



```

*                               ** WRITE THE SPOOL RECORD **
WRITESPL EQU *
      EXEC CICS SPOOLWRITE TOKEN(STOKEN) FROM(PRINTLN)
          FLENGTH(LINELEN) NOHANDLE
*
      BR      R1Ø
*
EXIT    EQU *
*                               ** RETURN **
      EXEC CICS RETURN
*****
*
SYDUMPCD DS    CL8
CURRDMPS DS    F
SYSDUMP  DS    F
TRDUMPCD DS    CL4
CURRDMPT DS    F
TRNDUMP  DS    F
TRDUMPSW DS    CL1
LNECNT   DC    PL2'Ø'
MAXLNE   DC    P'6Ø'
PTRN     DC    X'4Ø2Ø2Ø2Ø212Ø'
OUTCLAS  DC    CL1'Q'
LINELEN  DC    F'133'
PRINTLN  DS    CL133
*
BLANKS   DS    ØCL133      ** BLANK LINE **
          DC    CL1'Ø'
          DC    CL132' '
UNDRSCOR DS    ØCL133      ** UNDERSCORE LINE **
          DC    CL1'Ø'
          DC    132C'_'
*
          ** HEADING LINE DEFINITION **
HEADING  DS    ØCL133
          DC    CL1'1'
          DC    CL8'JOBNAME:'
HJOBNM   DC    CL8' '
          DC    CL1Ø'  APPLID:'
HAPPLID  DC    CL8' '
          DC    CL9'  SYSID:'
HSYSID   DC    CL4' '
          DC    CL8'  DATE:'
HDATE    DC    CL8' '
          DC    CL8'  TIME:'
HTIME    DC    CL8' '
          DC    CL53' '
** **
*
* ***** START DUMP STATISTICS DEFINITIONS ***** **
DUMPNM   DS    CL8

```

```

*
** DUMP HEADING LINES **
DUMPHDT DS ØCL133
DUHCNTLA DC CL1'Ø'
DC CL132'*** DUMP STATISTICS ***'
DUMPHD1 DS ØCL133
DUHCNTL DC CL1'Ø'
DC CL132' SYSTEM DUMPS'
DUMPHD2 DS ØCL133
DC CL1'Ø'
DC CL132' TAKEN SUPPRESSED CODE'
*
** DUMP DETAIL LINE **
DULNE1 DS ØCL133
DUDCNTL DC CL1'Ø'
DC CL6' '
DUTRATA DS CL6
DC CL4' '
DUTRASU DS CL6
DC CL11Ø' '
DUMPHD3 DS ØCL133
DUHCNTLT DC CL1'Ø'
DC CL132' TRANSACTION DUMPS'
DUMPHD4 DS ØCL133
DC CL1'Ø'
DC CL132' TAKEN SUPPRESSED CODE'
*
** DUMP DETAIL LINE **
DULNE2 DS ØCL133
DUDCNTLT DC CL1'Ø'
DC CL6' '
DUTRATAT DS CL6
DC CL4' '
DUTRASUT DS CL6
DC CL11Ø' '
*
* ***** END DUMP STATISTICS DEFINITIONS ***** **
*
LTORG
DFHEISTG
DFHEIEND
END

```

Editor's note: this article will be continued next month.

Jim Smith
System Programmer
Onondaga County Data Processing (USA)

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CICS news

CICS users can benefit from IBM's Millennium Runtime Windowing Tool for MVS and OS/390 for short-term Y2K fixes. Used to assess Y2K problems at execution time, it gives a predominantly automated fix to the load modules. The software helps to identify and fix date exposures in CICS, batch, STCs, and IMS application code, and can execute in existing application development environments, eliminating the need to dedicate an LPAR or special processor.

The tool can also run on multiple applications executing different jobs at the same time, allowing problems to be detected and changed in different applications concurrently. It uses standard mechanisms for control, such as JCL, ISPF panels, and user control statements, and operates with or without source code.

The tool has two main find and fix functions. Find Assist automatically produces a listing of actual and potential two-digit year occurrences that can be reviewed. If fixing is necessary, this can be done by either updating the source code using existing tools, or using the AdvancedFix Assist function.

For further information contact your local IBM representative.

* * *

UniKix Technologies has announced its 3270 Screen Bean for accessing multiple back-end CICS applications or systems.

Results are delivered as a single screen to users. The 3270 Screen Bean can be configured to be part of client Java applications or as part of a mid-tier server side Java application. Field-level access methods allow navigation of hierarchical 3270 applications and allow modification and extraction of screen data without complex programming.

For further information contact:

UniKix Technologies, 8125 North 23 Avenue, Suite 195, Phoenix, AZ 85021, USA.

Tel: (602) 242 3300.

UniKix Technologies, The Solent Centre, 3500 Parkway, Whiteley, Hants, PO15 7AL, UK.

Tel: (01489) 585500.

URL: <http://www.unikix.com>.

* * *

IBM has announced functional enhancements to CICS Clients. Version 2.0.4 refresh includes the enhancements that were introduced in Version 2.0.3, previously only available via Internet download. Other enhancements include DCE RPC communication support for IBM TXSeries and password security management. Also included is CICS Universal Clients Version 3, which is extended to support AIX and Sun Solaris platforms.

For further information contact your local IBM representative.

* * *



xephon