Virtual CICS user group: Newsletter 64

Welcome to the Virtual CICS user group newsletter. The Virtual CICS user group at virtualcics.hostbridge.com is an independently-operated vendor-neutral site run by and for the CICS user community.

```
SDSF OUTPUT DISPLAY CICSTS53 STC03986  DSID    121 LINE 0      COLUMNS 02- 81
COMMAND INPUT ===>                                            SCROLL ===> CSR
******************************** TOP OF DATA ********************************
Applid CICSTS53  Sysid S700  Jobname CICSTS53    Date 09/22/2021  Time 01:27:22


System Status
_____

MVS Product Name. . . . . . . :  MVS/SP7.2.3               CICS Trans
CICS Startup. . . . . . . . . :  INITIAL                   MVS Worklo
CICS Status . . . . . . . . . :  ACTIVE                    WLM Server
CEC Machine Type and Model. . :  1090-306                  WLM Manage
                                                           WLM Worklo
VTAM Open Status. . . . . . . :  OPEN                      WLM Servic
IRC Status. . . . . . . . . . :  OPEN                      WLM Report
IRC XCF Group Name. . . . . . :  DFHIR000                  WLM Resour
                                                           WLM Goal T
Storage Protection. . . . . . :  ACTIVE                    WLM Goal V
Transaction Isolation . . . . :  INACTIVE                  WLM Goal I
Reentrant Programs. . . . . . :  PROTECT                   WLM CPU Cr
Exec storage command checking :  ACTIVE                    WLM Storag


Force Quasi-Reentrant . . . . :  No                        RLS Status
                                                           RRMS/MVS S
```

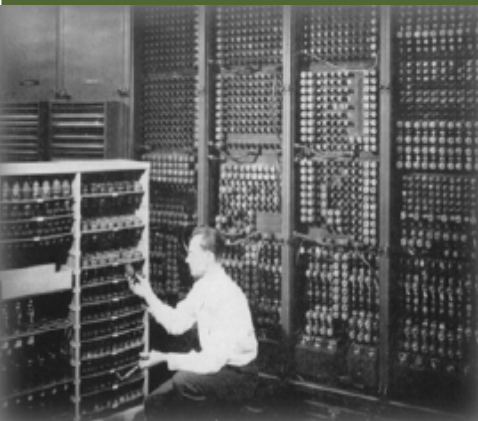**Figure 1: Statistics collected in SDSF from STAT transaction**

Virtual CICS user group presentation

The latest webinar from the Virtual CICS user group was entitled, "Collecting and Analysing CICS Statistics". It was presented by Colin Pearce.

Colin has been a z/OS and CICS Systems Programmer for over 30 years and has been teaching more than 20 years. He has worked in permanent and contract roles, and has installed CICS and related software many times.

Contents:

```
 //ADMINCPY JOB 'JOBCARD',CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID
 //*
 //*****************************************************************
 //*  STEP 1: UNLOAD DATA FROM THE SMF DATA SETS
 //*****************************************************************
 //SMFDUMP  EXEC PGM=IFASMFDP    IFASMFDL
 //*    CHECK SMF DATASET
 //INDD1      DD DSN=SYS1.MANX,DISP=SHR,AMP=('BUFSP=65536')
 //OUTDD1     DD DSN=ADMINCP.SMF.DATAD,DISP=(NEW,CATLG),
 //             SPACE=(CYL,(5,2)),UNIT=SYSDA
 //SYSPRINT  DD SYSOUT=*
 //SYSIN     DD *
       INDD(INDD1,OPTIONS(DUMP))
       OUTDD(OUTDD1,TYPE(110(2)))
 /*
```

Figure 2: Job step to access statistics from SMF

He is well versed in the Application side of CICS using Command level and with CICS Debugging in both the Transaction level and CICS Systems Dumps using IPCS. He has written many courses in CICS, namely CICS for System Programmers, CICS Transaction Debugging, CICS Command Level Programming, and CICS Internals. He also knows and understands the newer facilities in CICS, such as Web Services and Threadsafe.

He has written courses in RACF, SMPE, JES2, TSO/ISPF, JCL, Storage, VSAM, and z/OS for system programmers. He knows both Assembler and COBOL programming languages.

He has also written many articles and shared them on Linkedin.

He has conducted training for customers in many countries, and taught for IBM and third-party suppliers.

Colin Pearce said that the first step in collecting and

analysis CICS statistics is to ensure that Monitoring is set to ON using the CEMN transaction. You also need to ensure SPOOL=YES is specified in the CICS Overrides.

Next, make sure the DFH$STAT group is Added to your monitoring list.

The next step is to issue CEMT INQ STAT and set the Statistics on.

Lastly, issue transaction STAT and hit enter. This will

```
Requested Statistics Report        Collection Date-Time 09/22/2020-17:28
_____

FILES - Performance Information

_____

   File                Active  <-----Wait On Strings----->  <-----Buff
   Name     Strings    Strings  Current   Total    Highest      Data
_____


   CSQ4FIL      1         0        0        0         0          0
   DFHCMACD     1         0        0        0         0          0
   DFHCSD     100         0        0        0         0          0
   DFHDBFK      1         0        0        0         0          0
   DFHLRQ      10         0        0        0         0          0
   FILEA        3         0        0        0         0          0
```

Figure 3: More output from DFHSTUP

send the captured stats to the JES2 JOB Log for CICS.

The next stage is to go to SDSF and select the S0000000 output. This report is the statistics just collected (see Figure 1).

In order to access the statistics from SMF, you need to run the first JCL step, IFASMFDP, shown in Figure 2. You have to change it to IFASMFDL if the SMF datasets are Logstreams. You need to Unload the type 110 Subtype 2 data.

You can then run DFHSTUP. An example of the output is shown in Figure 3.

Colin talked about the importance of the size of the cushion, ideally preventing storage violations, TCB utilization, and much much more. He also talked about carrying out trend analysis to see how the CICS system was changing over time.

A copy of Colin Pearce's presentation is available for download from the Virtual CICS user group website at virtualcics.hostbridge. com/presentations/ CICSStatisticsSep21.pdf.

You can see and hear the whole user group meeting at https://youtu.be/XPTZF3-pJdE.

Meeting dates

The following meeting dates have been arranged for the Virtual CICS user group:

- On 16 November, we have Ezriel Gross, Principal Solutions Advisor, IBM Systems (CICS) at Rocket Software, who will be discussing, "Debugging CICS Storage Violations using IPCS".

- The following meeting is on 11 January next year, when Wendell Lovewell, Developer at MacKinney Systems, will be discussing, "CICS

application development, diagnosis, and tuning".

We are using Zoom for the user group meetings.

CICS articles and blogs

CICS Security, TLS Enhancement, Updated CICS Documentation and More by Trevor Eddolls on TechChannel (23 August 2021). You can find the article at: https://techchannel.com/Enterprise/08/2021/cics-security.

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About the Virtual CICS user group

The Virtual CICS user group was established as a way for individuals using IBM's CICS TS systems to exchange information, learn new techniques, and advance their skills with the product.

The Web site at virtualcics.hostbridge.com provides a central point for coordinating periodic meetings (which contain technically-oriented topics presented in a webinar format), and provides articles, discussions, links, and other resources of interest to IBM CICS practitioners. Anyone with an interest in CICS is welcome to join the Virtual CICS user group and share in the knowledge exchange.

To share ideas, and for further information, contact trevor@itech-ed.com.

The Virtual CICS user group is free to its members.