

Virtual CICS user group meeting

9th May 2023

CEDA DEFINE GROUP(GENLEDGR) FILE(VSAMFILE)

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OVERTYPE TO MODIFY CICS RELEASE = 0740

CEDA DEFine File(VSAMFILE)

+ RECORDSize ==> 1-32767

Keylength ==> 1-255 (1-16 For CF Datatable)

INITIAL STATUS

STAtus ==> Enabled Enabled | Disabled | Unenabled

Opentime ==> Firstref Firstref | Startup

Disposition ==> Share Share | Old

BUFFERS

DAtabuffers ==> 00002 2-32767

Indexbuffers ==> 00001 1-32767

DATATABLE PARAMETERS

TABLE ==> CF No | Clcs | User | CF

Maxnumrecs ==> Nolimit Nolimit | 1-99999999

CFDATATABLE PARAMETERS

CFdtpool ==> pool_name

TABLEName ==>

UPDATEmodel ==> Locking Contention | Locking

+ LOad ==> No No | Yes

- Eligible for all files regardless of update activity.
- However there is a severe limitation of 16 bytes keys maximum.
- Not as fast as lookaside from LSR buffer however the data is globally shareable.
- A supplied Pool Server program is supplied and must be started to monitor/control the CFDT access/usage. This server program is **DFHCFMN**
- This server program must be loaded from the SDFHAUTH dataset

```

//CICSCFDT JOB ...
//CFSERVER EXEC PGM=DFHCFMN,REGION=40M,TIME=NOLIMIT CICS
CFDT Server
//STEPLIB DD DSN=CICSTS61.CICS.SDFHAUTH,DISP=SHR Authorized
library
// DD DSN=CICSTS61.CICS.SDFHLIC,DISP=SHR License activation
data set
//SYSPRINT DD SYSOUT=* Messages and statistics
//SYSIN DD *
FUNCTION=SERVER
POOLNAME=pool_name Pool name
MAXTABLES=100 Allow up to 100 tables

```

The same program (DFHCFMN) can be used for utility functions such as loading and unloading shared data table pools. For a scheduled maintenance of the coupling facility, a FUNCTION must be specified.

The CF list structure that is to hold the shared Data Table data must be named DFHCFLS_poolname, when defined by using CFRM policy statements; the POOLNAME specified here must match the second part of this name. The Poolname is defined in the CEDA Define File for the CFDT.

To List the Structure:

```
D XCF,STR,STRNAME=DFHCFLS_poolname
```

To Stop or Cancel the Server:

```
F jobname STOP
```

```
F jobname CANCEL
```

Exploiter	Structure Name	Structure type
CICS Data Table	DFHCFLS_ <i>poolname</i>	LIST

Then GOOGLE CFSIZER

CFSizer

CFSizer

Select CFSizer page: Choose one

Welcome to the System z Coupling Facility Structure Sizer Tool (CFSizer). CFSizer is a web-based application that will return structure sizes based on the latest CFLEVEL for the IBM products that exploit the coupling facility.

CICS Data Tables list structure help		
Maximum number of tables	Average rounded record size	Total records
<input type="text" value="1000"/>	<input type="text" value="512"/>	<input type="text" value="20000"/>
Target usage percent	Maximum expansion percent	
<input type="text" value="75"/>	<input type="text" value="100"/>	

Then SUBMIT

```
//STEP20 EXEC PGM=IXCMIAPU
//SYSPRINT DD SYSOUT=A
//SYSABEND DD SYSOUT=A
//SYSIN DD *
```

DATA TYPE(CFRM) REPORT(YES)

DEFINE POLICY NAME(polname) REPLACE(YES)

CF NAME(FACIL01)
TYPE(123456)
MFG(IBM)
PLANT(PK)
SEQUENCE(123456789012)
PARTITION(01)
DUMPSPACE(98M)

CF NAME(FACIL02)

TYPE(123456)
MFG(IBM)
PLANT(PK)
SEQUENCE(123456789012)
PARTITION(2)
DUMPSPACE(78M)

STRUCTURE NAME(**DFHCFLS_poolname**)
SIZE(from CFSIZER)
INITSIZE(350M)
MINSIZE(300M)
SCMMAXSIZE(4G)
SCMALGORITHM(KEYPRIORITY1)
SCMMAXSIZE(4G)
SCMALGORITHM(KEYPRIORITY1)
ALLOWAUTOALT(YES)
FULLTHRESHOLD(85)
PREFLIST(FACIL01,FACIL02)
EXCLLIST(CACHE_01)

Pool Name must match the File Pool name and the name specified on the Server program DFHCFMN

Then Start the new Policy

SETXCF START,POLICY,TYPE=CFRM,POLNAME=polname