Using CEMT

Introduction 19
Inquire 20
System parameters 21
HELP information: PF1 22
Datasets 26
Files 27
Programs 30
Tasks 31
TD queues 36
Transactions 38
Set 41
Perform 42
Discard 43
Minor CEMT parameters 44
Introduction

CICS operations are controlled by the Master Terminal Operator transaction CEMT. Very large CICS organizations can create Supervisory Terminal Operators who have more limited powers using CEST, but this section concentrates on the use of CEMT.

CICS operations tasks include:

- controlling the number of tasks running at any time
- controlling the number of tasks in a task class which are running at any time
- purging a task
- enabling/disabling transactions
- enabling/disabling files
- switching a dump dataset if one is full
- start/stop tracing, monitoring, generating statistics
- fetching the latest copy of a program
CEMT has four major functions:

<table>
<thead>
<tr>
<th><strong>Inquire</strong></th>
<th>display status of the CICS system and its components (e.g. terminals, programs, datasets). The status of displayed components can then be modified.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Perform</strong></td>
<td>is used to shut down the CICS system.</td>
</tr>
<tr>
<td><strong>Set</strong></td>
<td>is used to modify the status of CICS components. Inquire can be used for modifying several components but Set is used for those that cannot be modified using Inquire.</td>
</tr>
<tr>
<td><strong>Discard</strong></td>
<td>remove resource definitions (which had been added using RDO) from running CICS</td>
</tr>
</tbody>
</table>

You can specify the limitations for a specific display using names of objects optionally qualified by the *wildcards* + or *:

- CEMT I PROG enquires on *all* programs
- CEMT I PROG(OAK1) enquires on the program OAK1
- CEMT I PROG(OAK*) enquires on all programs starting OAK
- CEMT I PROG(OAK+) finds OAK1, OAK2, OAKA etc

**CEMT INQUIRE**

I

```
STATUS: ENTER ONE OF THE FOLLOWING OR HIT ENTER FOR DEFAULT

<table>
<thead>
<tr>
<th>AUTInstmodel</th>
<th>DUmpds</th>
<th>MODename</th>
<th>TDqueue</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTOinstall</td>
<td>ENQ</td>
<td>MONitor</td>
<td>TERminal</td>
</tr>
<tr>
<td>AUXtrace</td>
<td>ENQModel</td>
<td>Netname</td>
<td>TRansaction</td>
</tr>
<tr>
<td>BEan</td>
<td>EXci</td>
<td>PArtner</td>
<td>TRDumpcode</td>
</tr>
<tr>
<td>BRfacility</td>
<td>FEConnection</td>
<td>PROCesstype</td>
<td>TSModel</td>
</tr>
<tr>
<td>CFdtpool</td>
<td>FENode</td>
<td>PROFile</td>
<td>TSPool</td>
</tr>
<tr>
<td>CONNection</td>
<td>FEPOol</td>
<td>PROGRAM</td>
<td>TSQueue</td>
</tr>
<tr>
<td>CORbaserver</td>
<td>FERopset</td>
<td>REquestmodel</td>
<td>UOW</td>
</tr>
<tr>
<td>DB2Conn</td>
<td>FETarget</td>
<td>RRms</td>
<td>UOWDsnfail</td>
</tr>
<tr>
<td>DB2Entry</td>
<td>File</td>
<td>STAtistics</td>
<td>UOWLink</td>
</tr>
<tr>
<td>DB2Tran</td>
<td>Gtftrace</td>
<td>STReamname</td>
<td>Vtam</td>
</tr>
<tr>
<td>DEletshipped</td>
<td>INttrace</td>
<td>SYDumpcode</td>
<td>Web</td>
</tr>
<tr>
<td>Dispatcher</td>
<td>IRC</td>
<td>SYStem</td>
<td></td>
</tr>
<tr>
<td>DJar</td>
<td>JModel</td>
<td>Task</td>
<td></td>
</tr>
<tr>
<td>DOctemplate</td>
<td>JRNalname</td>
<td>TClass</td>
<td></td>
</tr>
<tr>
<td>DSAs</td>
<td>JVmpool</td>
<td>TCPIP</td>
<td></td>
</tr>
<tr>
<td>DSName</td>
<td>Line</td>
<td>TCFIService</td>
<td></td>
</tr>
</tbody>
</table>
```

SYSID=CICS APPLID=CICSOAK

PF 1 HELP 3 END 5 VAR 9 MSG
# System Parameters

**I**

**STATUS:** RESULTS - OVERTYPE TO MODIFY

- **Aging:** CICS increases task priority by 1 if it has not been dispatched after a wait time of 1000 ms
- **AKP:** the number of logging operations between activity keypoints (for recovery)
- **DSRTPROGRAM:** The name of the distributed routing program that is currently active in the region
- **FORCEQR:** Whether all user application programs are to be forced to run on the QR TCB
- **Maxtasks:** the total number of user tasks permissible in the system at any time
- **Runaway:** how long (in ms) CICS permits a task to run before it assumes a loop
- **Time:** the interval control exit time: how long (in ms) CICS waits before passing control back to MVS if no transactions are ready to proceed; region exit time interval

**PB 1 HELP 3 END 5 VAR 7 SBH 8 SFH 9 MSG 10 SB 11 SF**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aging</td>
<td>CICS increases task priority by 1 if it has not been dispatched after a wait time of 1000 ms</td>
</tr>
<tr>
<td>AKP</td>
<td>the number of logging operations between activity keypoints (for recovery)</td>
</tr>
<tr>
<td>DSRTPROGRAM</td>
<td>The name of the distributed routing program that is currently active in the region</td>
</tr>
<tr>
<td>FORCEQR</td>
<td>Whether all user application programs are to be forced to run on the QR TCB</td>
</tr>
<tr>
<td>Maxtasks</td>
<td>the total number of user tasks permissible in the system at any time</td>
</tr>
<tr>
<td>Runaway</td>
<td>how long (in ms) CICS permits a task to run before it assumes a loop</td>
</tr>
<tr>
<td>Time</td>
<td>the interval control exit time: how long (in ms) CICS waits before passing control back to MVS if no transactions are ready to proceed; region exit time interval</td>
</tr>
</tbody>
</table>

**PB7** scroll backwards HALF page
**PB8** scroll forwards HALF page
**PB10** scroll backwards FULL page
**PB11** scroll forwards FULL page
HELP information: PF1

GENERAL HELP INFORMATION

Enter command on the first line and press ENTER (after returning from HELP). Options can be abbreviated to the minimum that makes them unique.
? before command gives COMMAND SYNTAX CHECK and prevents execution.
To modify results, position cursor using TAB key, overtype and press ENTER.
? on results line shows EXPANDED RESULTS & SYNTAX OF SET COMMAND if applicable

PF KEY HELP INFORMATION

| PF01 | HELP | Displays this help panel |
| PF02 | Undefined |
| PF03 | END | Ends the session, returning to CICS |
| PF04 | Undefined |
| PF05 | Undefined |
| PF06 | Undefined |
| PF07 | SBH | Scrolls back half a page |
| PF08 | SFH | Scrolls forward half a page |
| PF09 | MSG | Displays any messages |
| PF10 | SB | Scrolls back a whole page |
| PF11 | SF | Scrolls forward a whole page |
| PF12 | Undefined |

USE ENTER TO RETURN

this is useful
**CEMT I CONNECTION**

**I CONN**
RESULT – OVERTYPE TO MODIFY
Connection(P2)
Netname(CICSP2)
Pendstatus(Notpending)
Servstatus(Inservice)
Connstatus(Released)
Accessmethod(Irc)
Protocol()
Purgetype()
Xlnstatus()
Recovstatus(Norecovdata)
Uowaction()
Gname()
Membername()
Affinity()
Remotesystem()
Rname()
Rnetname()

<table>
<thead>
<tr>
<th>Con</th>
<th>name in TCT for ISC or IRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net</td>
<td>VTAM name of remote system</td>
</tr>
<tr>
<td>Ins</td>
<td>In service</td>
</tr>
<tr>
<td>Connstatus</td>
<td>Acquired - LU6.2 only</td>
</tr>
<tr>
<td></td>
<td>Released – not usable</td>
</tr>
<tr>
<td>Xok</td>
<td>The two systems have exchanged log names</td>
</tr>
<tr>
<td>Accessmethod</td>
<td>Vta VTAM access method is used</td>
</tr>
<tr>
<td></td>
<td>XM Cross Memory Services used</td>
</tr>
<tr>
<td></td>
<td>IRC Inter Region Communication used with MRO</td>
</tr>
<tr>
<td></td>
<td>IND Indirect connection</td>
</tr>
<tr>
<td>Appc</td>
<td>for LU6.2 connections and CICS-CICS ISC links</td>
</tr>
<tr>
<td></td>
<td>Exci External CICS Interface used</td>
</tr>
<tr>
<td></td>
<td>LU61 CICS-IMS links</td>
</tr>
</tbody>
</table>

**This CICS is connected to CICSP2 via IRC.**
CEMT I DSA

I DSA
STATUS: RESULTS - OVERTYPE TO MODIFY
SOSStatus( NOTSOS )
Dsalimit( 04194304 )
Cdsasize( 00524288 )
Rdsasize( 00524288 )
SDsasize( 00262144 )
Udsasize( 00262144 )
EDsalimit( 0020971520 )
ECdsasize( 0003145728 )
ERdsasize( 0004194304 )
ESdsasize( 0001048576 )
EUdsasize( 0001048576 )

2 GB
Extended
EPrivate
31-bit programs
and storage areas

POW
ECommon
16 MB
Nucleus
Common
Private
PSA
24-bit programs
and storage areas

Address Space structure for CICS Version 2

COA-100
Two dump datasets are used, DFHDUMPA and DFHDUMPB. CEMT may be used to check which is currently in use and switch between them. It is also possible to specify AUT (autoswitch), which specifies that CICS is to switch between the datasets when the one in use becomes full; no other operator intervention is required. Each time a switch is made the automatic switching must be reset.
Datasets

I DSN

STATUS: RESULTS - OVERTYPE TO MODIFY

Dsn(CICSTS.UCICS01.DFHSCSD ) Vsa
  Fil(0001) Val Bas Sta Ava
Dsn(CICSTS.UCICS01.DFHLRQ ) Vsa
  Fil(0001) Val Bas Rec Sta Ava
Dsn(CICSTS.UCICS01.HGSCDS )
  Fil(0001) Inv
Dsn(ISVP.CADADS.R35.UCICS01.CONTROL ) Vsa
  Fil(0001) Val Bas Sta Ava
Dsn(ISVP.CADADS.R35.UCICS01.DADSBIF ) Vsa
  Fil(0001) Val Bas Sta Ava
Dsn(ISVP.CWXC.EMPLOYEE.FILE ) Vsa
  Fil(0001) Val Bas Und Und Ava
Dsn(ISVP.CWXC.UCICS01.PROFILE.FILE ) Vsa
  Fil(0001) Val Bas Sta Ava
Dsn(JDM0448.TEST.ACTVHIST.FILE300 ) Vsa
  Fil(0001) Val Bas Fwd Sta Frl(03) Ava
+ Dsn(KBB0202.ACTVHIST.FILE300 ) Vsa
  Fil(0001) Val Bas Fwd Sta Frl(03) Ava

<table>
<thead>
<tr>
<th>Accessmethod</th>
<th>VSAM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BDAM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fil</th>
<th>Number of files associated with this dataset</th>
</tr>
</thead>
<tbody>
<tr>
<td>Val</td>
<td>Valid file</td>
</tr>
<tr>
<td>Bas</td>
<td>Base dataset (or PATH for alternate index)</td>
</tr>
<tr>
<td>Recoverable?</td>
<td>Forward recoverable</td>
</tr>
<tr>
<td></td>
<td>Recoverable</td>
</tr>
<tr>
<td></td>
<td>Non-recoverable</td>
</tr>
<tr>
<td></td>
<td>Undetermined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Backuptime</th>
<th>Static</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dynamic – used with BWO</td>
</tr>
<tr>
<td></td>
<td>Undetermined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frl</th>
<th>ForwardRecoveryLog journal identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ava</td>
<td>Available for use</td>
</tr>
</tbody>
</table>
Files

I FI

STATUS: RESULTS - OVERTYPE TO MODIFY
Fil(ALTRFIL ) Vsa Clo Ena Rea Upd Add Bro Del Sha
  Dsn( UCP.C11000.ALTRMAST.ALTRFIL )
Fil(APSHIMP ) Rem
Fil(APSINDX ) Vsa Ope Ena Rea Upd Add Bro Del Sha
  Dsn( UCP.C11000.APSINDX )
Fil(APSLIB ) Vsa Ope Ena Rea Upd Add Bro Del Sha
  Dsn( UCP.C11000.APSLIB )
Fil(APSPRNT ) Vsa Clo Ena Rea Upd Add Bro Del Sha
  Dsn( UCP.C11000.PRDAPSPF.APSPRNT )
Fil(BWACCESS) Vsa Ope Ena Rea Bro Sha
  Dsn( UCP.C11000.BWACES.ESDS )
Fil(BWBBD ) Vsa Clo Ena Rea Bro Sha
  Dsn( UCP.C11000.BBWBBD.RRDS )
Fil(BWMOD ) Vsa Ope Ena Rea Bro Sha
  Dsn( UCP.C11000.BBWMOD.ESDS )
Fil(BWOFS ) Vsa Ope Ena Rea Bro Sha
  Dsn( UCP.C11000.BBWOFS.ESDS )
+ Fil(BWSUB ) Vsa Ope Ena Rea Bro Sha

You can open a file by overtyping Clo with Ope
When you Disable a file, CICS will deallocate it so that batch jobs can use it

<table>
<thead>
<tr>
<th>Accessmethod</th>
<th>VSAM</th>
<th>BDAM</th>
<th>Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Openstatus</td>
<td>Open</td>
<td>Closed</td>
<td></td>
</tr>
<tr>
<td>Enablestatus</td>
<td>Enabled</td>
<td>Disabled</td>
<td></td>
</tr>
<tr>
<td>Rea</td>
<td>Records can be read</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upd</td>
<td>Records can be updated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Add</td>
<td>Records can be inserted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bro</td>
<td>Sequential browse is allowed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Del</td>
<td>Records can be deleted</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sha</td>
<td>DISP=SHR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Enqueues

I ENQ
STATUS: RESULTS
Enq Uow(B6C784749116A681) Tra(TMQM) Tas(0000026) Act Exe
  Own Dur(00021805) Res(LANDMARKTMON941) Rle(016)
Enq Uow(B6C784749143B141) Tra(TMRS) Tas(0000027) Act Exe
  Own Dur(00021805) Res(LANDMARKTMON920) Rle(016)

Some CICS software products use ENQs to prevent two copies of programs from running at the same time.

<table>
<thead>
<tr>
<th>Uow</th>
<th>Unit of Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tra</td>
<td>Transaction</td>
</tr>
<tr>
<td>Tas</td>
<td>Task number</td>
</tr>
</tbody>
</table>
| State | Active
       Retained |
| Type | Type of resource being enqueued:
       Exe   - EXEC CICS ENQ request
       Dataset - VSAM
       File   - BDAM or user-maintained data table
       TDQ    - transient data queue
       TSQ    - temporary storage queue |
| Relation | Owner of ENQ
          Waiting for ENQ |
| Duration | Time in seconds since resource entered its current state |
| Res | Name of resource |
| Rle | Length of the data |
## Terminals (VTAM addresses)

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net</td>
<td>VTAM name for terminal/ ISC session/ IRC connected region</td>
</tr>
<tr>
<td>Tra</td>
<td>Transaction currently being processed with this terminal</td>
</tr>
<tr>
<td>Pri</td>
<td>Priority of this terminal</td>
</tr>
</tbody>
</table>
| Pagestatus | Pag: pages sent on request  
             | Aut: pages sent automatically |
| Servstatus | Ins: terminal is available for use  
              | Out: terminal is out of service |
| Atistatus | Ati indicates that this terminal can be used with transactions that are automatically started by CICS |
| Ttistatus | Tti indicates that this terminal can be used with transactions that are started from this terminal |
| Ter  | This is the 4 character terminal id |
| Termstatus | Acq: CICS is in session with this logical unit  
               | Rel: The session has been released |
| Cre  | CICS will acquire the terminal if it is needed by an Ati request |
Programs

I PROG(CITRN*)
STATUS: RESULTS - OVERTYPE TO MODIFY

Prog(CITRN1) Len(0023080) Pli Pro Ena Pri Ced
Res(001) Use(0000000002) Any Uex Ful Qua

Prog(CITRN2) Len(0018792) Pli Pro Ena Pri Ced
Res(000) Use(0000000000) Any Uex Ful Qua

Prog(CITRN3) Len(0019216) Pli Pro Ena Pri Ced
Res(000) Use(0000000000) Any Uex Ful Qua

Prog(CITRN4) Len(0022616) Pli Pro Ena Pri Ced
Res(000) Use(0000000000) Any Uex Ful Qua

Prog(CITRN5) Len(0022488) Pli Pro Ena Pri Ced
Res(001) Use(0000000032) Any Uex Ful Qua

Prog(CITRN6) Len(0018392) Pli Pro Ena Pri Ced
Res(000) Use(0000000000) Any Uex Ful Qua

E Right parenthesis assumed at end of command.

 SYSID=UC01 APPLID=UCICS01
 RESPONSE: NORMAL                            TIME: 13.17.23   DATE: 11.23.01
 PF 1 HELP       3 END       5 VAR        7 SBH 8 SFH 9 MSG 10 SB 11 SF

I PROG
RESULT - OVERTYPE TO MODIFY
Program(CEEMUEN2)
Length(0000000000)
Language(Assembler)
Progttype(Program)
Status( Enabled )
Sharestatus( Private )
Cyrstastatus( Notrequired )
Cedfstatus( Cef )
Dynamstatus(Notdynamic)
Rescount(000)
Usecount(0000000000)
Dataloc(Below)
Execkey(Uexeckey)
Executionset( Fullapi )
Concurrency(Quasirent)
Remotesystem()
Runtime( Notknown )
Jvmdebug( Nodebug )
+ Jvmclass( )
Hotpooling( Nothotpool )
Tasks

There are several ways of removing an unwanted task. You can enter **PURGE** in the CEMT I TASK or TER screen display. **PURGE** terminates a task only if file integrity can be guaranteed; this may not be possible for certain special tasks and applications. Instead, an abnormal termination must be compelled by using the **FORCE** parameter (short for **FORCEPURGE**).
I TA
RESULT - OVERTYPE TO MODIFY
  Task(0000103)
  Tranid(OMEG)
  Facility()
  Runstatus(Suspended)
  Ftype(Task)
  Priority( 255 )
  Purgetype(          )
  Startcode(S)
  Userid(CICSPLTI)
  Uow(B7AC7E8080D313C2)
  Htype(USERWAIT)
  Hvalue(SRVWORK)
  Htime(003285)
  Indoubt(Backout)
  Indoubtwait(Wait)
  Bridge()
  Identifier()
  Indoubtmins(000000)
  Db2plan()
  Activity()
  Activityid()
  Process()
  Processtype()
  Tcb(Qr)

<table>
<thead>
<tr>
<th>Startcode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>D</td>
<td>distributed program link; no syncpoints</td>
</tr>
<tr>
<td>Ds</td>
<td>distributed program link; program can issue syncpoints</td>
</tr>
<tr>
<td>Qd</td>
<td>TD queue trigger reached</td>
</tr>
<tr>
<td>S</td>
<td>start command; no data</td>
</tr>
<tr>
<td>Sd</td>
<td>start command with data</td>
</tr>
<tr>
<td>To</td>
<td>transaction typed by operator</td>
</tr>
<tr>
<td>Tp</td>
<td>transaction preset for this terminal</td>
</tr>
<tr>
<td>U</td>
<td>user-attached task</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TCB</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ckopen</td>
<td>open key CICS (e.g. JVMs in CICS key)</td>
</tr>
<tr>
<td>Internal</td>
<td>task is using an internal CICS TCB</td>
</tr>
<tr>
<td>Qr</td>
<td>task is running as QuasiReentrant</td>
</tr>
<tr>
<td>Ukopen</td>
<td>task is open key user (e.g. JVMs in user key)</td>
</tr>
</tbody>
</table>

| Htime | Seconds since task was suspended |

<table>
<thead>
<tr>
<th>Runstatus</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Running</td>
<td></td>
</tr>
<tr>
<td>Dispatchable</td>
<td></td>
</tr>
<tr>
<td>Suspended</td>
<td></td>
</tr>
</tbody>
</table>
# Units of Work

## I UOW

**STATUS: RESULTS - OVERTYPE TO MODIFY**

<table>
<thead>
<tr>
<th>Uow</th>
<th>Inf</th>
<th>Act</th>
<th>Tra</th>
<th>Tas</th>
<th>Age</th>
<th>Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>B5E1DC3955585900</td>
<td>CSSY</td>
<td>0000004</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B5E1DC3955E71100</td>
<td>CSSY</td>
<td>0000005</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B5E3610D40D1C600</td>
<td>CSNE</td>
<td>0000018</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B5E364A4077EA400</td>
<td>CEMT</td>
<td>0000030</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RESULT - OVERTYPE TO MODIFY**

<table>
<thead>
<tr>
<th>Uow</th>
<th>Inf</th>
<th>Act</th>
<th>Tra</th>
<th>Tas</th>
<th>Age</th>
<th>Term</th>
<th>Net</th>
<th>User</th>
<th>Wait</th>
<th>Link</th>
<th>Sys</th>
<th>Netuowid</th>
</tr>
</thead>
</table>
| B7AC7ED1FA9B32C1 | | | | | | | | | Inflight | | | ..CCNET01.VTER2Z4.="J.......

### Uowstate
- **Backout**: this UOW is being backed out
- **Commit**: this UOW will be committed but is waiting or shunted
- **Indoubt**: 
- **Inflight**: running normally
- **Hbackout**: forcibly backed out
- **Hcommit**: forcibly committed

### Waitstate
- **Active**: running normally, or UOW is being unshunted
- **Waiting**: syncpoint complete on this system, but not on others
- **Shunted**: syncpoint deferred; locks retained; program storage released

### Waitcause
- **Connection**: Waiting/shunted due to failed link
- **Dataset**: Use I UOWDSNFAL to identify dataset
- **Otscoord**: OTS coordinator failed
- **Rlsserver**: RLS server failed
- **Rrns**: Communication lost with RRS/MVS
- **Waitcommit**: Failure during commit processing
- **Waitforget**: Waiting for FORGET from syncpoint participants
- **Waitrmi**: Waiting for FERGET from RMI; use I UOWLINK
Task classes

I TC
STATUS: RESULTS - OVERTYPE TO MODIFY
+ Tcl (DFHTCL05) Max( 001 ) Act(000) Pur( 0000000 )
    Que(0000000)
    Tcl (DFHTCL06) Max( 001 ) Act(000) Pur( 0000000 )
    Que(0000000)
    Tcl (DFHTCL07) Max( 001 ) Act(000) Pur( 0000000 )
    Que(0000000)
    Tcl (DFHTCL08) Max( 001 ) Act(000) Pur( 0000000 )
    Que(0000000)
Terminals (CICS names)

I TE
STATUS: RESULTS - OVERTYPE TO MODIFY
Ter(CERR) Pri(000) Pag Ins Tti
Ter(CN00) Pri(000) Pag Ins Ati Tti
Ter(CN01) Pri(000) Pag Ins Ati Tti
Ter(CN02) Pri(000) Pag Ins Ati Tti
Ter(CN03) Pri(000) Pag Ins Ati Tti
Ter(CN04) Pri(000) Pag Ins Ati Tti
Ter(CN05) Pri(000) Pag Ins Ati Tti
Ter(CN06) Pri(000) Pag Ins Ati Tti
+ Ter(CN07) Pri(000) Pag Ins Ati Tti

I TE (R*)
STATUS: RESULTS - OVERTYPE TO MODIFY
Ter(R002) Tra(CEMT) Pri(000) Pag Ins Ati Tti
Net(TPXGR002) Acq

If you are not running VTAM, then the Net information will not appear.

Pri indicates the terminal priority relative to the others; the maximum value is 255.

Acq indicates that the terminal is in session with CICS as opposed to Rel (released).

To put a terminal out of service, the Ins should be overtyped with OUT. Conversely, if a terminal is placed out of service, Out should be overtyped with INS. When a field is modified and ENTER is pressed, the new status is shown in high intensity or white.

Pag requests that pages other than the first are written to the terminal by operator request, Aut on the other hand signifies that this is done automatically.

Ati indicates that the terminal is available for use by transactions automatically initiated within CICS, and Noati is the opposite.

Tti indicates that the terminal can be used by transactions initiated from the terminal and Notti indicates the converse.

Aut, Ati and Notti therefore usually indicates that the terminal is a printer.

If a question mark (?) is keyed on the left hand side of a single display line, then that line only is redisplayed, plus the full syntax of the possible INQ or SET parameters which may be modified.
## Transient Data queues

**I TD**

**STATUS:** RESULTS – OVERTYPE TO MODIFY

+ Tdq(CSPL) Ind Nam(CSSL)  
  Tdq(CSQL) Ind Nam(CSSL)  
  Tdq(CSRL) Ind Nam(CSSL)  
  Tdq(CSSH) Ind Nam(CSSL)  
  Tdq(CSSL) Ext Ena Ope  

<table>
<thead>
<tr>
<th>Tdq(CSTL)</th>
<th>Ind Nam(CSSL)</th>
<th>Mod Out</th>
<th>Dat(001)</th>
<th>Ddn(MSGUSR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tdq(CSZL)</td>
<td>Ind Nam(CSSL)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tdq(CSZX)</td>
<td>Int Tri(00001) Ena</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tra(CZUX)</td>
<td>Use(CICSLID)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tdq(CXRF)</td>
<td>Ext Ena Ope</td>
<td>Mod Rdb</td>
<td>Dat(000)</td>
<td>Ddn(DFHCXRF)</td>
</tr>
<tr>
<td>Tdq(DADL)</td>
<td>Ext Ena Ope</td>
<td>Mod Out</td>
<td>Dat(003)</td>
<td>Ddn(DADSLOG)</td>
</tr>
<tr>
<td>Tdq(DOPT)</td>
<td>Ext Ena Clo</td>
<td>Shr Inp</td>
<td>Dat(001)</td>
<td>Ddn(DUMPOPT)</td>
</tr>
</tbody>
</table>
+ Tdq(SEMA)  | Ext Ena Ope    |         |          |             |

- The type of queue is shown as *Int* or *Ext* (intrapartition or extrapartition), or possibly *Ind* (indirect destination).

- The queues may be *Enabled* and *Open* or otherwise.

- Intrapartition transient data may have a *Trigger* level an associated *Transid* and a *Destination* address.

### Passing data between programs

![Diagram showing passing data between programs](COA-220)
The MEMBER option displays the 8-character member name if the queue is a member of a partitioned data set.

```
I TD
RESULT - OVERTYPE TO MODIFY
    Tdqueue(TRIO)
    Type(Intra)
    Nameind()
    Triggerlevel( 00001 )
    Enablestatus( Enabled )
    Openstatus(              )
    Termid()
    Tranid(TRI1)
    Userid(CICSTRIO)
    Disposition()
    Iotype()
    Indoubt()
    Indoubtwait()
    Databuffers()
    Ddname()
    Dsname()
    Member()
```
Transactions

Using CEMT

I TRA
STATUS: RESULTS - OVERTYPE TO MODIFY

Tra(AM00) Pri( 001 ) Pro(AWOA0 ) Tcl( DFHTCL00 ) Ena Pur
  Prf(DFHCICST) Uda Bel Iso Bac Wai
Tra(AM2A) Pri( 001 ) Pro(AWO2A ) Tcl( DFHTCL00 ) Ena Pur
  Prf(DFHCICST) Uda Bel Iso Bac Wai
Tra(AM3A) Pri( 001 ) Pro(AWO3A ) Tcl( DFHTCL00 ) Ena Pur
  Prf(DFHCICST) Uda Bel Iso Bac Wai
Tra(AM3B) Pri( 001 ) Pro(AWO3B ) Tcl( DFHTCL00 ) Ena Pur
  Prf(DFHCICST) Uda Bel Iso Bac Wai
Tra(AM3C) Pri( 001 ) Pro(AWO3C ) Tcl( DFHTCL00 ) Ena Pur
  Prf(DFHCICST) Uda Bel Iso Bac Wai
Tra(AM3E) Pri( 001 ) Pro(AWO3E ) Tcl( DFHTCL00 ) Ena Pur
  Prf(DFHCICST) Uda Bel Iso Bac Wai
Tra(CAFB) Pri( 001 ) Pro(CAUCAFB1) Tcl( DFHTCL00 ) Ena
  Prf(DFHCICST) Cda Any Iso Bac Wai
Tra(CAFF) Pri( 254 ) Pro(CAUCAFF1) Tcl( DFHTCL00 ) Ena
  Prf(DFHCICST) Cda Any Iso Bac Wai

To disable a transaction, the Ena should be overtyped with Dis. Conversely, to enable a transaction, Dis should be overtyped with Ena. When a field is modified and ENTER is pressed, the new status is shown in high intensity.
Temporary Storage queues

I TSQ
STATUS: RESULTS - OVERTYPE TO MODIFY
Tsq(BWOFSFQ ) Num(00001) Len(0000000064) Aux
Tra(CPLT) Max(00064) Min(00064) Las( 00021857 )
Tsq(BWOFSTQ ) Num(00001) Len(0000000064) Aux
Tra(CPLT) Max(00064) Min(00064) Las( 00021857 )
Tsq(BWSUBQ ) Num(00001) Len(0000000064) Aux
Tra(CPLT) Max(00064) Min(00064) Las( 00021850 )
Tsq(BWTRANQ ) Num(00002) Len(0000000128) Aux
Tra(CPLT) Max(00064) Min(00064) Las( 00021849 )
Tsq(BWUNIQQ ) Num(00001) Len(0000000064) Aux
Tra(CPLT) Max(00064) Min(00064) Las( 00021850 )
Tsq(DADSVRQ1) Num(00001) Len(0000000128) Aux
Tra(DADB) Max(00128) Min(00128) Las( 00000238 )
+ Tsq(TMONTM) Num(00001) Len(0000000064) Aux
Tra(CPLT) Max(00064) Min(00064) Las( 00021809 )

Passing data between programs

CICS TS queue names start with:
  **
  $$
  X’FA’ - X’FF’
  CEBR
  DF

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INQUIRE TSMODEL

This command displays information about TSMODEL resource definitions installed in the CICS region. Your regions always have at least one of these resource definitions, called DFHWEB. It is installed from the group DFHWEB, which is included in DFHLIST.

```
I TSM
STATUS: RESULTS
      Tsm(DFHWEB ) Pre(DFHWEB ) Mai
```

INQUIRE TSQNAME

This is the new version of the INQUIRE TSQUEUE command, which continues to be supported.

ACTION a SET option, allowing you to delete a TS queue.
LASTUSEDINT interval (in seconds) since the temporary storage queue was last referenced
POOLNAME enables you to inquire on TS queues in a coupling facility pool.
RECOVSTATUS indicates whether the TS queue is recoverable.
SYSID Names the TS server to which the INQUIRE command is to be function shipped.
TRANSID the transaction that created the queue.

```
I TSQ
STATUS: RESULTS - OVERTYPE TO MODIFY
      Tsq(DADSVRQ1 ) Num(00001) Len(0000000128) Aux Tra(DADB ) Max(00128)
      Min(00128) Las( 00000038 )
      Tsq(PZSYSINF ) Num(00001) Len(0000000064) Mai Tra(CPLT) Max(00064)
      Min(00064) Las( 00003707 )
```
CEMT SET

S
  STATUS:  ENTER ONE OF THE FOLLOWING OR HIT ENTER FOR DEFAULT

  AUToinstall Line
  AUXtrace  MODename
  Connection MONitor
  DElete shipped Netname
  DLidatabase  PITrace
  DSAs  PROgram
  DSNName STatistics
  Dumpds SYDumpcode
  FEConnection SYSTEM
  FENode Task
  FEPool TClass
  FETarget TDqueue
  File Terminal
  Gtftrace TRAnsaction
  INtttrace TRDumpcode
  IRc Volume
  Journalnum VTam

S TA
  STATUS:  COMMAND SYNTAX CHECK

  CEMT STATUS Set TA<sk() | <All>
    < PRiorty() >
    < PUrge | FOrcepurge >

  S ALL is not defaulted for SET commands so a value or group of values must
  be specified.

CEMT SET FILE(ABCD1234) EMPTY

CEMT SET FILE(fn) DSNAMEx(dsn) SHARE|OLD

CEMT SET TASK(nnnn) PURGE|FORCEPURGE

CEMT SET DSN(dsn) NORMALBKOUT after CICSVR has fixed a dataset
CEMT PERFORM

P
STATUS: ENTER ONE OF THE FOLLOWING

DEletshipped
DUp
REConnect to IRLM following a failure in IRLM
RESet resync date and time
SEcurity refresh security profiles - not needed with RACF 2.1
SHUTdown
SNap
STatistics

P SN
STATUS: RESULTS
Sna
CEMT DISCARD

D
STATUS: ENTER ONE OF THE FOLLOWING

Autinstmodel
FENode
FEPOol
FEPropset
FETarget
File
Partner
PROFILE
PROGRAM
TClass
TRANSACTION

revokes an earlier INSTALL of resource definition

D PROG
STATUS: COMMAND SYNTAX CHECK
CEMT Discard PROGRAM()
Minor CEMT parameters

These are models used with autoinstall; they save you from having to have a large number of definitions for terminals.

One of the useful CICS features is *autoinstall*. Terminal control table entries can occupy a substantial amount of virtual storage (a VTAM terminal TCT entry is around 700 bytes - work it out!!). Consequently, this feature makes it is possible to make considerable savings by dynamically installing terminals and building their entries only when the terminal logs on.

In the following example, a maximum of 100 terminals can be queued for autoinstall.

The name of the program which performs autoinstall is DFHZATDX.

The number of logon requests currently being processed is zero.
Auxiliary trace

The system TRACE records diagnostic information in a virtual storage table which is of limited size, and wraps round, overwriting the oldest trace entries. Consequently information may be incomplete for problem solving. The AUXTRACE retains information on a trace dataset; although this imposes a system overhead, nothing is lost. Two auxiliary trace datasets may be used and CEMT may be used both to inquire on these, switch between them, and set tracing on or off.

Terminal definitions can be shipped from one CICS system to another. Inactive shipped terminal definitions are deleted at intervals of 12 hours. A terminal is eligible for deletion after it has been idle for 2 hours (hhmmss).
INQUIRE DOCTEMPLATE

This command displays information about installed document templates.

I DO
STATUS: RESULTS
Doc(DFHWBPW1) Pro Nam(DFHWBPW1 ) App Ebc Tem(DFHWBPW1 )
Doc(DFHWBPW2) Pro Nam(DFHWBPW2 ) App Ebc Tem(DFHWBPW2 )
Doc(DFHWBPW3) Pro Nam(DFHWBPW3 ) App Ebc Tem(DFHWBPW3 )

INQUIRE JMODEL

This displays details of journal model, journal name, and log stream.

I JM
STATUS: RESULTS
Jmo(DFHJ02 ) Jou(DFHJ02 ) Mvs Str(CICSLOGT.CXTY.DFHJ02 )
Jmo(DFHJ03 ) Jou(DFHJ03 ) Mvs Str(CICSLOGT.CXTY.DFHJ03 )
Jmo(DFHJ15 ) Jou(DFHJ15 ) Mvs Str(CICSLOGT.CXTY.DFHJ15 )
Jmo(DFHLGLOG) Jou(DFHLGLOG) Dum
Jmo(DFHLOG ) Jou(DFHLOG ) Mvs Str(CICSLOGT.CXTY.DFHLOG )
Jmo(DFHSHUNT) Jou(DFHSHUNT) Mvs Str(CICSLOGT.CXTY.DFHSHUNT )

INQUIRE JOURNALNAME

I JO
STATUS: RESULTS - OVERTYPE TO MODIFY
Jou(DFHJ15 ) Mvs Ena Str(CICSLOGT.CXTY.DFHJ15 )
Jou(DFHLOG ) Mvs Ena Str(CICSLOGT.CXTY.DFHLOG )
Jou(DFHSHUNT) Mvs Ena Str(CICSLOGT.CXTY.DFHSHUNT )

INQUIRE STREAMNAME

This displays entries installed in a CICS region.

I STR
STATUS: RESULTS
Str(CICSLOGT.CXTY.DFHJ15 ) Use(0000001) Ok
Str(CICSLOGT.CXTY.DFHLOG ) Use(0000001) Ok Sys
Str(CICSLOGT.CXTY.DFHSHUNT) Use(0000001) Ok Sys
FEPI: Front End Programming Interface

GTFTRACE
This trace is held in main storage, not on auxiliary storage (disk).

INTERNAL TRACE
Using CEMT

I IRC
STATUS: RESULTS - OVERTYPE TO MODIFY
Irc Clo

IRC: Inter Region Communication
Indicates if IRC is open or closed.

BTAM Lines

I L
STATUS: COMMAND SYNTAX CHECK
CEMT Inquire Line()
< Number() >
< NEgpoll() >
< Inservice | Outservice >

BTAM only

S LINE must specify a value.

I MOD
STATUS: RESULTS - OVERTYPE TO MODIFY
Mod(SNASVCMG) Con(2TT1) Max(002) Ava( 002 ) Act(002)
Mod(        ) Con(2TT1) Max(001) Ava( 001 ) Act(000)

MODESET
A group of APPC sessions
I MON
STATUS: RESULTS - OVERTYPE TO MODIFY
Mon On Per Eve Exc Fre( 000000 ) Gmt Sub(CICS)

MONITOR
Performance class
Event class
Except class
Fre: how often long-running tasks should produce
a performance class record
GMT for time stamps

I PA
STATUS: RESULTS
Par(* ) NOT FOUND

PARTNER
Used if CICS is having a conversation with something else.
Name defined in partner Resource Table.
I PROF
STATUS: RESULTS
Prof(DFHCICSA)
Prof(DFHCICSE)
Prof(DFHCICSF)
Prof(DFHCICSP)
Prof(DFHCICSR)
Prof(DFHCICSS)
Prof(DFHCICST)
Prof(DFHCICSV)
Prof(DFHPPF01)
Prof(DFHPPF02)

PROFILE
set of options for controlling interactions between transactions and terminals
e.g. screen size, printer capability

I ST
STATUS: RESULTS - OVERTYPE TO MODIFY
Sta Off Int( 030000 ) End( 000000 ) Nex(000000)

STATISTICS
The following are always recorded:
End-of-day
Unsolicited
Requested Stats

I SYD
STATUS: RESULTS - OVERTYPE TO MODIFY
Syd(SR0001 ) Loc Max( 999 ) Cur(0000)

SYDUMPCODE
Suppress system dumps for this code.
Prevents SYS1.DUMPnn datasets from filling up with unwanted SDUMPs which precede ASRA, ASRB, ASRD abends.
INQUIRE TCPIP
This command displays the status of CICS internal TCP/IP support.

```
I TCPIP
STATUS:  RESULTS - OVERTYPE TO MODIFY
Tcp Clo
```

INQUIRE TCPIPSERVICE
This command displays information about TCP/IP ports on which CICS internal TCP/IP support is currently listening.

```
I TRD
STATUS:  RESULTS - OVERTYPE TO MODIFY
Trd(ATNI) Tra           Loc Max( 999 ) Cur(0001)
```

### TRDUMPCODE
Transaction Dump Codes
Action which CICS takes if this TRAN dump code occurs:
- take transaction dump
- take SDUMP
- forward SDUMP request to related MVS images
- shut down CICS

INQUIRE WEB
This command displays information about CICS Web support.

```
I W
STATUS:  RESULTS - OVERTYPE TO MODIFY
Web Gar( 00060 ) Tim( 00005 )
```

```
I W
RESULT - OVERTYPE TO MODIFY
Web
Garbageint( 00060 )
Timeoutint( 00005 )
```