

CICS Online Transmission Time Optimizer



# Compatibility Mode Guide

*Version 1 Release 2*



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*Version 1 Release 2*

**Note**

Before using this information and the product it supports, be sure to read the general information under Appendix C, "Notices," on page 63.

This edition applies to Version 1 Release 2 of CICS Online Transmission Time Optimizer, program number 5655-I05, and to all subsequent versions, releases, and modifications until otherwise indicated in new editions.

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## **PREFACE**

CICS® Online Transmission Time Optimizer (CICS OTTO) is a tool for the IBM® Customer Information Control System (CICS). CICS OTTO improves user productivity and 3270 network utilization.

### **Who Should Use This Book**

This book is intended for use by the system programmer responsible for the operation of CICS OTTO. It contains all the relevant information needed to control the optimization features using the CICS OTTO's native command language.

### **How to Use This Book**

This book is intended for use when CICS OTTO is controlled using native commands. It contains the following chapters.

- "Chapter 1: Using the Compatibility Mode" on page 1 introduces the command screen and general rules regarding the commands that are used to control the optimization features.
- "Chapter 2: Optimization Control Commands" on page 9 explains how to use the CICS OTTO native commands to define your site specific optimization settings.
- "Chapter 3: DISPLAY Commands" on page 29 describes commands that can be used to view optimization controls and statistics.
- "Appendix A: Troubleshooting" on page 57 provides hints to resolving problems and describes what information should be provided for technical support in case of difficulties. Additionally, FAQs about the image pool are listed.
- "Appendix B: Technical Support Checklist" on page 61 is a technical support checklist that should be completed before contacting your technical support representative.
- "Appendix C: Notices" on page 63 contains legal notices and trademarks.
- The comprehensive "Index" on page 67 allows you to access specific information quickly.

### **Contacting IBM support**

Information on IBM support policy can be found on the Web site. Follow the Support link in the left-hand column at [ibm.com/software/ts/cics/](http://ibm.com/software/ts/cics/).

## How to Send Your Comments

IBM welcomes your comments. You can send your comments by any one of the following methods:

1. Electronically to this address:

idrcf@hursley.ibm.com

Be sure to include your network address if you want a reply.

2. By FAX, to the following numbers:

UK: 01962-842327

Other countries: +44-1962-842327

3. By mail to the following address:

User Technologies  
Mail Point 095  
IBM United Kingdom Laboratories  
Hursley Park  
Winchester  
Hampshire  
SO21 2JN  
United Kingdom

## Where to Get More Information

For more information, the following books complete the library of CICS OTTO:

- *Program Directory* explains how to install CICS OTTO.
- *CICS Online Transmission Time Optimizer Message Guide* provides an explanation for the messages that may be issued and explains any action that may be necessary.
- *CICS Online Transmission Time Optimizer User's Guide* is a reference guide on how to use the CICS dialog panels to control optimization. The CICS panels are an alternative to using the native commands documented in this book.

## What's New in Release 1.2

The following enhancements are included in release 1.2:

- Statistics are collected for inbound and outbound data stream errors. These statistics show the number of data streams in which an error was detected, as well as information on the terminal for which the error most recently occurred. Such information includes date, time, LU/module name, partition ID and size, along with the displacement of the error in data stream, and failing 3270 order or data.
- Inbound and outbound data streams can be traced using a CICS OTTO storage area in which the trace records are stored. Such a trace enables you to track and evaluate specific inbound and outbound data stream errors.

Therefore, the associated commands and keywords have been added to this document for any end-users who elect to use the compatibility mode instead of the CICS OTTO online interface.

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## CHAPTER 1: USING THE COMPATIBILITY MODE

To control CICS OTTO, a set of powerful commands allows you to define the optimization features and display a variety of information such as the optimization effect. The actual commands are detailed the subsequent chapters. This chapter is intended to provide the general information that is needed before using these commands.

There are two ways to control the optimization features:

1. Using CICS dialog panels. Optimization features can be controlled using these interactive and self-explanatory panels without the need to know or understand the native command language described in this book. For details on using the CICS menus and for complete information about CICS OTTO, refer to the *CICS Online Transmission Time Optimizer User's Guide*.
2. Using the Compatibility Mode. In general, the Compatibility Mode allows you to control the optimization features using the native commands described in this book instead of using the online dialog. To access the Compatibility Mode from the CICS panels, enter option 14 on the CICS OTTO PRIMARY OPTION MENU.

### 1.1 Activating the Command Screen

To enter commands, activate the command screen using the Compatibility Mode. To do this, you will need to access the online dialog and choose this option from the main menu (see *CICS Online Transmission Time Optimizer User's Guide*).

## 1.2 General Layout of the Command Screen

Option 14 of the PRIMARY OPTION MENU displays the native command screen illustrated below.

```

appl-id          Online Transmission Time Optimizer V1R2          vvm/ptf
                  Copyright Software Engineering GmbH, 1987-2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR  TRACE --3270-- --SCS--- --3600--
tid      date    time      LU-x  pu  eid  VSM  SEQ   sopt   sopt   sopt
                   MO-x          oo  ovf  onoff  olev   OUT   olev
                   SE-x                               ovf

display line 1
display line 2
display line 3
display line 4
display line 5
display line 6
display line 7
display line 8
display line 9
display line 10
display line 11
display line 12
display line 13

message line
OTTO COMMAND ===>_____ F3=END

```

**Figure 1: Command Screen Layout**

The following general information applies to using this screen.

- Commands are entered on the OTTO COMMAND line.
- The CLEAR or PF3 keys end the transaction.
- All lines other than the *display lines* are updated each time a command is entered. The *display lines* are updated only when a DISPLAY or HELP command is entered.

### Layout Description

<b>appl-id</b>	TP systems application-ID.
<b>vvm/ptf</b>	CICS OTTO version and modification level and PTF level.
<b>tid</b>	Terminal-ID or VTAM node name of terminal where the OTTO transaction was activated.
<b>date</b>	Current date.
<b>time</b>	Current time.

<b>LU-x</b>	x=Y if terminal exclusion list exists or x=N if terminal exclusion list does not exist.
<b>MO-x</b>	x=Y if module exclusion list exists or x=N if module exclusion list does not exist.
<b>SE-x</b>	x=Y if terminal selection list exists or x=N if terminal selection list does not exist.
<b>pu</b>	Current percentage of image pool usage.
<b>eid</b>	User exit suffix or -NA- if a user exit does not exist.
<b>oo</b>	ON if user exit is enabled or OFF if user exit is disabled. This field is blank if no user exit exists.
<b>ovf</b>	OVF if an overflow occurred on the control or trace file.
<b>onoff</b>	ON if trace is active or OFF if trace is not active.
<b>sopt</b>	Start option for component: STOPPED           if component is not started. STOPPING         if the component has been stopped but not all terminals have been reset yet. FULL               if component is fully started. SELECTED         if component is selectively started.
<b>olev</b>	Optimization level for 3270:  OUTIMAGE         if output messages are optimized including the image function. OUT                 if output messages are optimized without the image function.  Optimization level for 3600: FULL               if both input and output messages are optimized. OUT                 if only output messages are optimized.
<b>display lines 1-13</b>	Filled by the execution of the various DISPLAY and HELP commands.
<b>message line</b>	Confirmation and error messages.
<b>OTTO COMMAND</b>	Input field for command input.

### 1.2.1 General Rules

- A command must be entered in the OTTO COMMAND line.
- Commands and keywords can be entered in an abbreviated format. See online HELP for a quick reference on using commands.
- Successful processing of a command is confirmed by an appropriate message. In the event of an error situation, an error message is displayed. See the *CICS Online Transmission Time Optimizer Message Guide* for a listing of command messages and corrective actions.
- All commands are executed temporarily if the keyword PERMANENT is not specified, except the SET POOL and SET TERMNO commands. Permanent execution of a command means that the action is stored in the CICS OTTO command file and is still valid at the next startup of the TP system.
- The command and the keyword(s) must be separated from each other by either
  - 1) one or more blanks, or
  - 2) one comma.
- The keywords can be entered in any sequence.
- If a keyword allows data specification, its format is 'keyword=data'.
- If a data list is allowed, the data must be enclosed in parentheses and the list elements must be separated by a comma: 'keyword=(ele1,ele2)'.



## 1.2.2 Using Generic Notation

With many command keywords, LU or module names must be entered. When entering the name of an LU or module, generic notation is often allowed. Generic notation is a way of generically grouping LUs or modules with similar names.

There are two types of generic notation: simple and extended.

### 1.2.2.1 Simple Generic Notation

Simple generic notation allows you to use the asterisk (\*) as a wildcard to generically name LUs and modules by appending the asterisk to the end of a name, thus masking all names that begin with like characters. For example, using a generic LU name like TE\* will mask to all LU names that begin with TE.

### 1.2.2.2 Extended Generic Notation

Extended generic notation allows you to use the asterisk (\*) and percent sign (%) as wildcards anywhere in a string. This applies to every parameter (or input field) for which CICS OTTO supports generic notation.

When using the extend generic notation, follow IBM's conventions for RACF® and OPC/ESA when using the asterisk (\*) and percent sign (%). A percent sign matches any valid (non-blank) character in a name, whereas an asterisk matches any string of zero or more valid characters in a name.

**There is one syntax restriction.** Two or more consecutive asterisks are not allowed.

Wildcard notation is honored within every keyword for which CICS OTTO supports generic notation. Pay special attention to the SET command with keyword LU or MOD.

When a CICS OTTO command of this type is issued, two actions are performed :

1. All active terminals and modules are checked to see if they are matched by the LU/MOD specification. If so, the command is executed for these terminals and modules.
2. An entry is added to an internal CICS OTTO control block called "pending queue". This entry reflects the options set by the SET command.

Actually, there are two pending queues, one for terminals and one for modules. Pending queue entries may be TEMPORARY (in-storage, only), or PERMANENT (written to the CMD file and read into storage during CICS OTTO initialization).

Every time a terminal or module is optimized by CICS OTTO for the first time, the appropriate pending queue is scanned for an entry whose name matches the terminal, or module name. The logic follows one of the following courses:

- If no entry is found, the terminal/module is optimized using the default settings of the component (3270, SCS, or 3600) to which the terminal or module belongs.
- If there are one or more pending queue entries matching the terminal/module, a set of rules is applied in order to select a pending queue entry whose settings are used for the terminal or module. Exactly one entry is selected, and there is no merge of settings of different matching pending queue entries.

The rules are governed by the goal to find the best-matching pending queue entry. In some respects, RACF methods are adopted to find the best-matching profile for a given resource.

**Table 1: Wildcard Matching Rules and Examples for Generic Notation**

Rule	Description
1	<p>If there is a pending queue entry that exactly matches the name of the terminal/module, this entry is always selected. This would be the case if a SET command had been issued previously with the exact (i.e., non-generic) LU/MOD name.</p> <p>If there is no exact match and there is only one matching generic pending queue entry, this entry will be selected.</p> <p>If there is no exact match and at least two matching generic pending queue entries exist, Rules 2-4 are used to find the best-matching entry.</p> <p>CICS OTTO uses the name "pattern" for a string that contains one or more generic characters (i.e., asterisks and/or percent signs). Thus, the name of a generic pending queue entry is a pattern. Rules 2-4 explain how CICS OTTO compares patterns in order to find the best matching one.</p>
2	<p>Both patterns are compared from left to right. CICS OTTO assumes that no asterisk precedes the first position where they differ. Since both patterns match the terminal/module name, one of the characters at this position must be generic. In this case, a non-generic character wins against a generic character and a percent sign wins against an asterisk.</p> <p><i>Example:</i></p> <p>For the name ABC, pattern ABC* matches better than AB%, AB% matches better than AB*, and AB* matches better than A%C.</p>

3	<p>If Rule 2 does not apply, both patterns must be equal up to, and including, a position where both contain an asterisk. In this case, the pattern with the higher number of "hits" (no. of characters <math>\leq</math> *) wins.</p> <p>If both patterns have the same number of hits, the pattern with the smaller number of asterisks wins.</p> <p><i>Example:</i></p> <p>For the name ABC, rule 1 does not decide between the matching patterns A*, A*C, A*B*, and A*C*. Rule 3 lets A*C win against each other of these patterns.</p>
4	<p>If Rules 2 and 3 do not apply the pattern that is higher in alphabetical order wins. This rule will apply in any case because both patterns are different.</p> <p><i>Example :</i></p> <p>For the name ABC, Rules 2 and 3 do not decide between the matching patterns A*B*, and A*C*. Rule 4 lets A*C* win.</p>

### 1.3 The System Command File

All of the optimization features and definitions are maintained on a command file. At each TP system startup, the command file optimization settings are activated. All optimization settings can be permanent or temporary.

- Permanent optimization settings are updated to the command file. Permanent settings are activated at each system startup.
- Temporary changes affect only the current processing and are not updated to the command file. Therefore, the command file definitions are activated again at the next start up.

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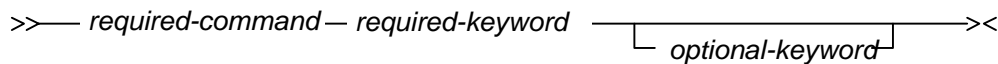
## CHAPTER 2: OPTIMIZATION CONTROL COMMANDS

All of the optimization features can be controlled by the use of native commands. This book describes a command and each of the keyword parameters that can be used. Commands are listed alphabetically. For a quick reference to using these commands, online help is available (see section 2.4 "HELP Command" on page 12 for details on how to obtain online help).

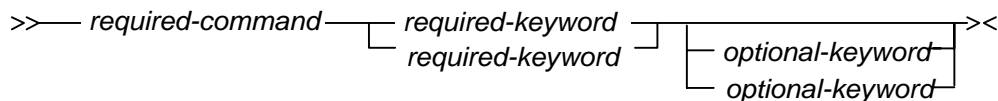
The general command format is:

```
COMMAND KEYWORD1 KEYWORD2 . . . KEYWORDn-1 KEYWORDn
```

Required commands and keywords always appear on the main path (the horizontal line). Optional keywords appear below the main path.



If there are more than one required or optional keywords to choose from, they will appear stacked vertically. Optional keywords will be stacked below the main path.



Within the syntax diagram, default values are indicated with **bold** text. If a command or keyword has underlined letters, these letters indicate the abbreviations that can be used.

For example:

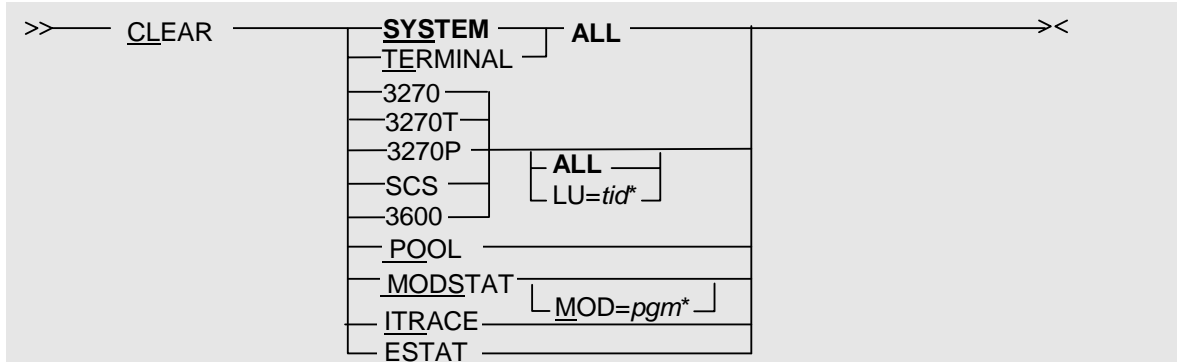
**DISPLAY ACTIVE** indicates that the default command is DISPLAY and the abbreviation for DISPLAY ACTIVE is D ACT.

As a reminder:

- Generic notation may be allowed when entering LU names and program names. This is indicated by an asterisk within the keyword input, e.g., INCLUDE LU=*tid*\*. The value you replace for *tid*\* may be a generic name.
- Many command settings may be either *permanent* or *temporary*. When these keywords are allowed, the default keyword is always TEMPORARY, meaning the setting is active only during the current processing. Therefore, if you want to update the system command file, be sure to use the PERMANENT keyword.

## 2.1 CLEAR Command

Use the CLEAR command to clear the statistics that have been gathered.



CLEAR keywords	Description
SYSTEM	Set the statistics for all components (3270, SCS, and 3600) as well as for the pool and module statistics to ZERO.
TERMINAL	Set the statistics for all components (3270, SCS and 3600) to ZERO.
3270, 3270T, 3270P	Set the statistics for component 3270, 3270-type terminals, or 3270-type printers to ZERO.
SCS	Set the statistics for component SCS to ZERO.
3600	Set the statistics for component 3600 to ZERO.
LU=tid*	Set the statistics for terminal <i>tid</i> belonging to component 3270, 3600, or SCS (e.g., CLEAR 3270 LU=ABC*) to ZERO.
POOL	Set the image pool statistics to ZERO.
MODSTAT	Set all module statistics to ZERO.
MODSTAT MOD=pgm*	Set the module statistics for module <i>pgm</i> to ZERO.
ITRACE	Set the CICS OTTO storage area used for tracing to hex ZERO.
ESTAT	Set the error statistics for inbound and outbound errors to ZERO.

## 2.2 CLOSE Command

Use the CLOSE command to close CICS OTTO's VSAM control files.

```
>> CLOSE <<
```

## 2.3 EXCLUDE Command

Use the EXCLUDE command to exclude specific terminals or modules from optimization when CICS OTTO is fully started. This command can also be used to exclude modules from statistics.

```
>> EXCLUDE LU=tid* MOD=pgm* MODSTAT=pgm* TEMPORARY PERMANENT <<
```

➔ **Note:** Once an LU or module has been excluded, the INCLUDE command detailed on page 12 will remove it from the exclusion list.

The following keywords may be used with many commands. However, the definitions are listed here only once.

Keywords	Description
LU= <i>tid</i> *	<i>tid</i> * must be replaced by a specific terminal ID or a generic group of terminal IDs defined by generic notation, e.g. LU=TE*
MOD= <i>pgm</i> *	<i>pgm</i> * must be replaced by a specific module or a generic module group identified by generic notation, e.g. MOD=PRG*
MODSTAT= <i>pgm</i> *	<i>pgm</i> * when used with the MODSTAT keyword must be replaced by a specific or generic module name that should, in this case, be excluded from the statistics when module statistics are fully started.

## 2.4 HELP Command

Use the HELP command to display information about commands.

```
>> _HELP [command] <<
```

HELP Keyword	Description
command	Displays a short explanation of a specific command. Otherwise, a short overview of all CICS OTTO commands is displayed.

## 2.5 INCLUDE Command

Use the INCLUDE command to remove entries from the exclusion list. In other words, this command includes terminals or modules in optimization that were previously excluded.

```
>> _INCLUDE ALL [TEMPORARY | PERMANENT] <<
      LU=tid*
      MOD=pgm*
      MODSTAT=pgm*
```

INCLUDE Keyword	Description
ALL	Deletes all entries from the LU, MOD and MODSTAT exclusion lists.
LU=tid*	Deletes specific terminal(s) from the exclusion list.
MOD=pgm*	Deletes specific module(s) from the exclusion list.
MODSTAT=pgm*	Deletes specific module(s) from the exclusion list valid for module statistics.



## 2.6 LOG Command

Use the LOG command to write optimization statistics to the OTTOSTAT file or to the console if OTTOSTAT DD statement is missing.

```
>> LOG <<
```

## 2.7 RELOAD Command

Use the RELOAD command to:

1. Load a new copy of the 3600/4700 interface module (RELOAD M=SNAI) into the main storage.
2. Load a new copy of the user exit (RELOAD M=EXIT) into the main storage.
3. Load a new copy of any optimization module after applying a PTF, where keyword *modid* is a 4 digit number corresponding to the module name (e.g., RELOAD M=3211 for ABL3211).

```
>> RELOAD MOD= SNAI  
                EXIT  
                modid <<
```

## 2.8 RESET Command

Use the RESET command to change all specific settings for the given LU or module to the optimization settings that have been set for component value, i.e., the specified entry (or all entries matching the generic pattern) will be deleted from the corresponding pending queue for LUs or modules.

**Note:** The RESET command affects the temporary settings as well as the permanent settings without the keyword PERMANENT.

```
>> RESET ALL  
         LU=tid*  
         MOD=pgm* <<
```

## 2.9 SELECT Command

Use the SELECT command to select:

1. Specific terminals for optimization if CICS OTTO is selectively started.
2. Specific module(s) for saving module statistics if the module statistics are selectively started.

```
>>— SELECT ——— LU=tid* ——— TEMPORARY ———><  
                  └── MODSTAT=pgm* ┘ └── PERMANENT ┘
```

➔ **Note:** Once an LU is selected, use the UNSELECT command detailed on page 27 to remove it from the selection list.

## 2.10 SET Command

The SET command defines all general system parameters and optimization characteristics.

### 2.10.1 SET APPLID

The SET APPLID command and keyword combination sets an application-ID. This ID will be displayed on the command screen instead of the original TP system application ID taken from the SIT (System Initialization Table). To reset an application-ID, enter the command SET APPLID=' ' (PERMANENT).

DISTRIBUTED DEFAULT: blank

```
>>— SET APPLID=id ——— TEMPORARY ———><  
                  └── SET APPLID=' ' ┘ └── PERMANENT ┘
```

### 2.10.2 SET BCS

The SET BCS command and keyword combination determines if there are terminals in your installation that have the BASE COLOR SWITCH set to ON. This may decrease the output optimization ratio and should be set to OFF whenever possible.

**Note:** The component value applies if not specifically set for terminals.

DISTRIBUTED COMPONENT DEFAULT: OFF

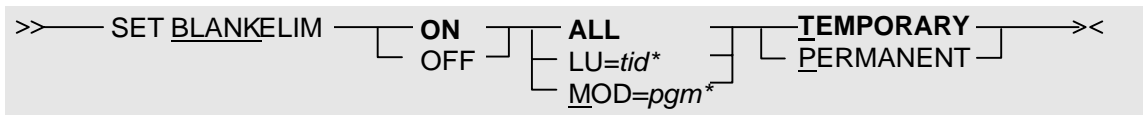
```
>>— SET BCS ——— ON ——— ALL ——— TEMPORARY ———><  
                  └── OFF ┘ └── LU=tid* ┘ └── PERMANENT ┘
```

### 2.10.3 SET BLANKELIM

The SET BLANKELIM command and keyword combination sets the BLANK ELIMINATION feature on or off.

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: OFF

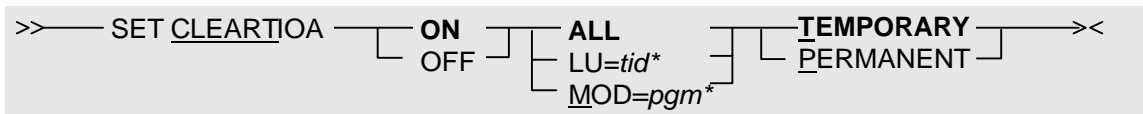


### 2.10.4 SET CLEAR~~T~~IOA

The SET CLEAR~~T~~IOA command and keyword combination determines if the CICS terminal input/output area (TIOA) should be cleared before moving the optimized message to it. This causes CPU overhead and should only be activated if there are transactions in your CICS system that do not use the length field of the TIOA (TIOATDL) to determine the length of the incoming data. Rather the whole I/O area is scanned for incoming data.

**Note:** The component value applies if it is not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: OFF

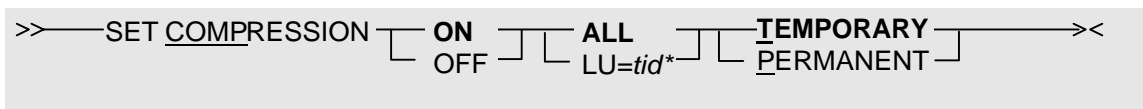


### 2.10.5 SET COMPRESSION

The SET COMPRESSION command and keyword combination keeps the image pool requirements low by compressing the saved screen images up to 50%. However, if the compression is set to ON, this requires some CPU overhead. Therefore, if sufficient main storage is available the compression should be set to OFF. This should always be the case in a z/OS® environment.

**Note:** The component value applies if not specifically set for terminals.

DISTRIBUTED COMPONENT DEFAULT: OFF



### 2.10.6 SET DATE

The SET DATE= command and keyword combination sets the date formatting to one of the following:

- YYYY-DDD format (JULIAN keyword)
- MM-DD-YYYY format (AMERICAN keyword)
- DD-MM-YYYY format (EUROPEAN keyword)

This format will apply to all dates, whether displayed online or printed.

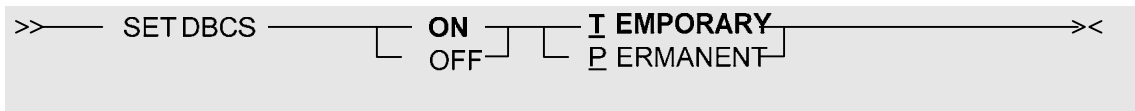
DISTRIBUTED DEFAULT: JULIAN



### 2.10.7 SET DBCS

The SET DBCS command and keyword combination sets the DBCS support on or off.

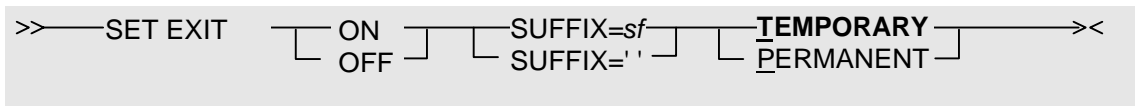
DISTRIBUTED DEFAULT: OFF



### 2.10.8 SET EXIT

The SET EXIT command and keyword combination dynamically activates or deactivates a suffixed user exit program. The suffix must be numeric between 00 and 99.

DISTRIBUTED DEFAULT: none

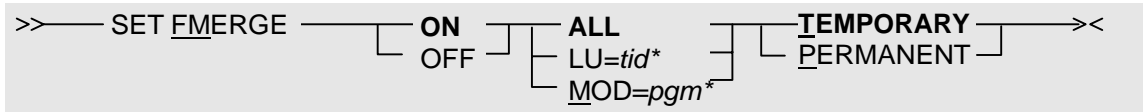


### 2.10.9 SET FMERGE

The SET FMERGE command and keyword combination sets the Field Merge feature on or off.

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: OFF

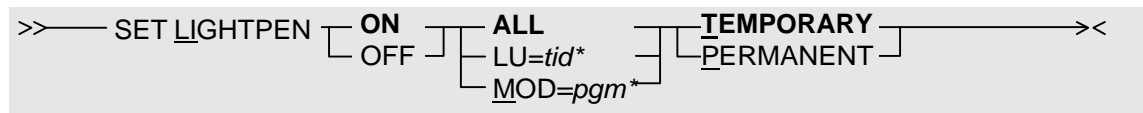


### 2.10.10 SET LIGHTPEN

The SET LIGHTPEN command and keyword combination determines if there are terminals in your installation that may work with a light pen. This may decrease the input optimization ratio and should be set to OFF whenever possible.

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: OFF

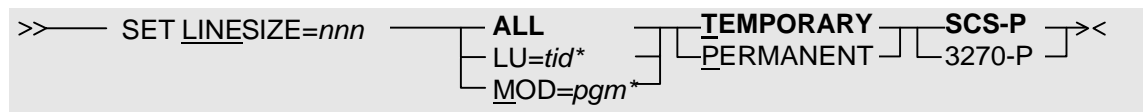


### 2.10.11 SET LINESIZE

The SET LINESIZE=*nnn* command and keyword combination sets the standard line size for SCS or 3270 printers.

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: 132 for SCS, no default for 3270



## 2.10.12 SET MODSTAT

The SET MODSTAT command and keyword combination starts the module statistics fully (FULL keyword) or selectively (SELECTED keyword).

- FULL means that the statistics of all modules will be saved except for those modules that are in the exclusion list.
- SELECTED means that statistics will be saved only for those modules that are in the selection list.

The number of entries for the module statistics list may be restricted using the MAXNO keyword. One entry requires 44 bytes. If MAXNO is omitted, a default value of 100 is used and the list is dynamically increased whenever necessary. If no storage is available for this list, an informational message will be presented at startup time (on the console) or online after issuing the command.

DISTRIBUTED DEFAULT: OFF

```
>>—SET MODSTAT [ ON ] [ OFF ] [ FULL ] [ SELECTED ] [ MAXNO=9999 ] [ TEMPORARY ] [ PERMANENT ]><
```

## 2.10.13 SET OPTIMIZATION

The SET OPTIMIZATION command and keyword combination sets the optimization level.

OUTPUT keyword: Output messages are optimized with imaging (IMAGE keyword/3270 type terminal only) or without imaging (NOIMAGE keyword).

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: OUTPUT NOIMAGE

```
>>—SET OPTIMIZATION 3270 OUTPUT [ NOIMAGE ] [ IMAGE ] [ ALL ] [ LU=tid* ] [ MOD=pgm* ] [ TEMPORARY ] [ PERMANENT ]><

>>—SET OPTIMIZATION 3600 OUTPUT [ TEMPORARY ] [ PERMANENT ]><
```

### 2.10.14 SET POOL

The SET POOL command and keyword combination specifies the size of the image pool. The minimum pool size is 16 KB and the maximum size is 99999 KB. The minimum slot size is 256 bytes and the maximum slot size is 9996 bytes. The optimum slot size is one using the least number of slots to save one image. Check your pool settings against the image pool statistics after the system has been running for a while. Whatever is specified here becomes active at the next startup of the TP system. CICS OTTO will try to get additional storage according to the SIZE specification and concatenate it to the existing pool with the old slot size specification. The changing of the slot size is the only command that cannot be serviced while the TP system is still up. If no more storage is available to increase the total pool size dynamically, an information message is issued.

DISTRIBUTED DEFAULT: 16 KB with a slot size of 1024 bytes

```
>> SET POOL SIZE=size SLOT=size <<
```

### 2.10.15 SET PRIME

The SET PRIME= command and keyword combination defines the hexadecimal specification of the prime compression character for 3600/4700 type devices.

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: BLANK (40)

```
>> SET PRIME=char [ ALL LU=tid* MOD=pgm* ] [ TEMPORARY PERMANENT ] <<
```

### 2.10.16 SET SCS

The SET SCS command and keyword combination sets the optimization technique for SCS printers (3270 or SCS).

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: SCS

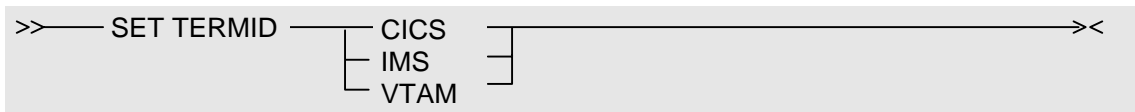
```
>> SET SCS= [ SCS 3270 ] [ ALL LU=tid* MOD=pgm* ] [ TEMPORARY PERMANENT ] <<
```

### 2.10.17 SET TERMID

The SET TERMID command and keyword combination defines whether the LU name will be taken from the TP-system terminal definition (CICS) or as VTAM node name.

DISTRIBUTED COMPONENT DEFAULT: TP-system

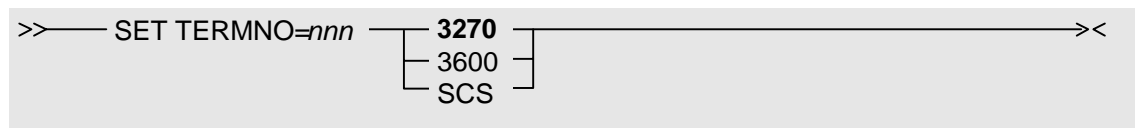
**Note:** This command is available only in CICS OTTO's batch environment.



### 2.10.18 SET TERMNO

The SET TERMNO command and keyword combination sets an initialization value for the number of terminals. This number is used to allocate the terminal list at start up time. If this value is missing, CICS OTTO starts with 16 terminals and increases the list dynamically by GETMAIN/FREEMAIN. This leads to fragmented storage. To find out the correct start value, use the DISPLAY OPTIONS command to show the number of control blocks in use in a live system.

DISTRIBUTED COMPONENT DEFAULT: 16

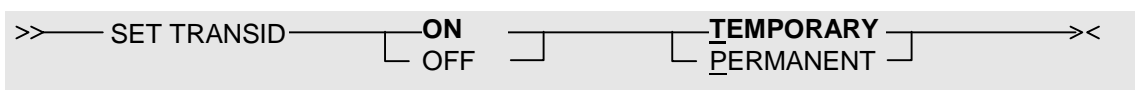


### 2.10.19 SET TRANSID

The SET TRANSID command and keyword combination indicate whether module names should be considered to specify CICS program names or CICS transaction IDs.

- When the ON keyword is used, exclusion/selection will be based on the transaction ID.
- When the OFF keyword is used, exclusion/selection will be based on the program name.

DISTRIBUTED DEFAULT: OFF





### 2.10.20 SET WCC-IGNORE

The SET WCC-IGNORE command and keyword combination determines whether the line length in the WCC (**W**rite **C**ontrol **C**haracter) of a data stream destined for a 3270 printer should be considered by CICS OTTO to be OFF or ON.

If ON, it should be ignored and defaulted to a line length of:

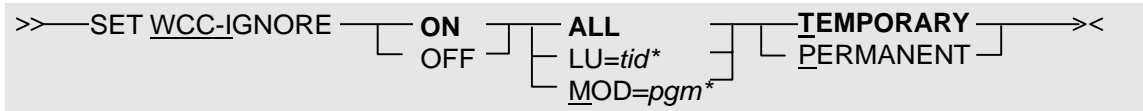
- 80 for a model 2.3 or 4 printer, or
- 132 for a model 5 printer.

Both will be optimized like a screen by RA-orders.

The printer line size can also be defined by the SET LINESIZE=*nn* 3270-P command. This value will be used if the WCC does not contain the line length and WCC-IGNORE is OFF.

**Note:** The component value applies if not specifically set for terminals or modules.

DISTRIBUTED COMPONENT DEFAULT: OFF

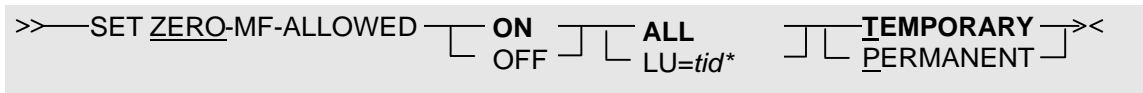


### 2.10.21 SET ZERO-MF-ALLOWED

The SET ZERO-MF-ALLOWED command and keyword combination determines if the MF-order (**M**odify **F**ield) may be generated with a zero number of pairs. This kind of order is allowed according to the 3270 data stream conventions but may lead to problems with some kinds of emulation or terminals that are not 100 % IBM compatible. It should be set to ON, whenever applicable, to increase the optimization effect.

**Note:** The component value applies if not specifically set for terminals.

DISTRIBUTED COMPONENT DEFAULT: OFF



## 2.10.22 SET 3192

The SET 3192 command and keyword combination determines if there are any 3192 or 3179 type terminals in your installation. This may decrease the output optimization ratio and should be set to OFF whenever possible.

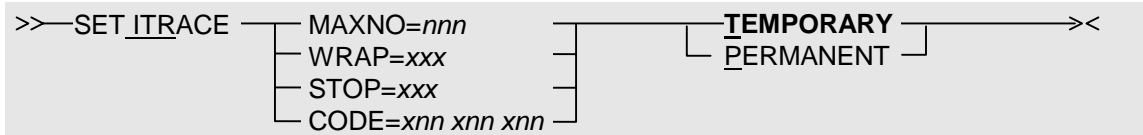
**Note:** The component value applies if not specifically set for terminals.

DISTRIBUTED COMPONENT DEFAULT: OFF

```
>>—SET 3192 — [ ON ] — [ ALL ] — [ TEMPORARY ] —><
                [ OFF ] [ LU=tid* ] [ PERMANENT ]
```

### 2.10.23 SET ITRACE

The SET ITRACE command and keyword combination defines the parameters to be used when running an instorage trace of inbound and outbound data streams.



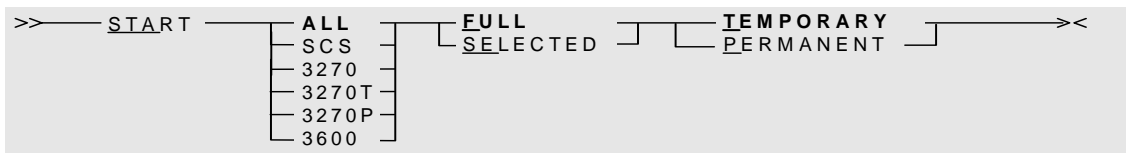
SET ITRACE keywords	Description
MAXNO= <i>nnn</i>	<p><i>nnn</i> specifies a number from 1 to 999 to define the size of the CICS OTTO storage area reserved for an instorage trace. MAXNO multiplied by 2172 will give you the size of the area. At most, MAXNO trace entries can be saved. One entry uses 60 bytes plus a variable number of slots that are 256 bytes in size. At most, 8*MAXNO slots can be used. The area is allocated the first time an instorage trace is started and resides in private storage above 16MB. The area is reused unless it is released by the user or the MAXNO value is increased.</p> <p>The default value is 100 .</p>
WRAP= <i>xxx</i>	<p>Specifies whether the storage area used by the instorage trace should wrap around. Wrapping simply means that CICS OTTO will overwrite the trace file starting from the top.</p> <p><i>xxx</i> can be either YES or NO as described below:</p> <p><b>YES</b> Allow the trace information to wrap around the reserved storage area.</p> <p><b>NO</b> Completely fill the allocated storage area. See MAXNO for details pertaining to the size.</p>

SET ITRACE keywords	Description
STOP= <i>mmm</i>	<p>Controls whether the instorage trace should stop upon detection of a specific error code. <i>mmm</i> can be either YES or NO as described below:</p> <p><b>YES</b> Stop the instorage trace when a predefined error code is found in a traced message. You can define up to 3 error codes using the CODE field.</p> <p><b>NO</b> No error code detection will be used. The default value is NO.</p>
CODE= <i>xnn xnn xnn</i>	<p>Specifies from 1 to 3 error codes that will cause an instorage trace to stop. If one of these error codes is detected in a traced message, and keyword STOP has been set to YES, the trace will stop at that point. All previously defined error codes are removed and replaced by the new values. Error codes are not saved permanently. At CICS OTTO startup, there are no predefined or default error codes.</p> <p>Error codes are specified as <i>I</i><i>nn</i> or <i>O</i><i>nn</i>, where <i>nn</i> represents two numeric digits. Furthermore, generic specification is allowed, i. e., you may enter <i>xn*</i> or <i>x*</i>, where <i>x</i> represents I or O, and <i>n</i> is a numeric digit. Refer to the User's Guide for a detailed listing of all possible error codes.</p>

## 2.11 START Command

CICS OTTO has two start options:

- The START FULL command and keyword combination will fully start all components (ALL keyword) or specific components (3270, 3270T, 3270P, SCS or 3600 keyword). This means that all messages are optimized if the terminal for which the message is designated or the program that generated the message is **not** in the exclusion list (see EXCLUDE command).
- The START SELECTED command and keyword combination will selectively start all components (ALL keyword) or specific components (3270, 3270T, 3270P, SCS or 3600 keyword). This means that the **only** messages optimized are those which are designated for terminals in the selection list (see SELECT command).



## 2.12 STOP Command

The STOP command stops the optimization for all components (ALL keyword) or a specific component (3270, 3270T, 3270P, SCS or 3600 keyword).



The component 3270 has been split into 3270T and 3270P so that terminals or printers can be started or stopped independently.

If a START or STOP command specifies the 3270 keyword it will apply to both terminals and printers (3270T and 3270P), but if the keyword is either 3270T or 3270P it will apply to only terminals or printers respectively.

## 2.13 TRACE Command

The TRACE ON command and keyword combination traces messages before and after optimization. There are different types of traces: instorage, non-internal, and internal.

### 2.13.1 Instorage Trace

An **instorage** trace is for inbound and outbound data streams. This trace uses a CICS OTTO storage area in which the traced records are saved. The trace is available for online viewing using the CICS OTTO online interface. Refer to the SET ITRACE command for details on how to set parameters for the instorage trace.

```
>>TRACE ON INSTORAGE ID=id ALL TITLE=title PAGESIZE=nnn><
  |SCS
  |3270
  |3600
  |LU=tid*
  |MOD=pgm*><
```

The TRACE RELEASE command and keyword combination releases the storage area that was allocated for an instorage trace. Otherwise, the storage area is released at shutdown.

```
>>TRACE RELEASE ><
```

The TRACE OFF command and keyword combination stops the trace and makes it available for viewing online.

```
>>TRACE OFF ><
```

### 2.13.2 Non-internal and Internal Trace

A **non-internal** trace is for inbound and outbound data streams. The trace information is written to the print file identified by DDNAME OTTOTRCS. Whenever the trace is activated it must be identified by a numeric 2-byte ID.

An **internal** trace is the same as a non-internal trace with an exception. Internal information about CICS control blocks and OTTO control blocks are additionally traced for trouble shooting purposes. An internal trace should only be activated when needed by technical support.

With any trace, a title may be entered to document the trace purpose. The lines per page may be specified using the PAGESIZE. The standard value is 60.

```
>>_TRACE ON ID=id  ALL      TITLE=title  PAGESIZE=nnn  ><
                   SCS
                   3270
                   3600
                   LU=tid*
                   MOD=pgm*
```

The TRACE OFF command and keyword combination closes the trace file and makes it available for printing.

```
>>_TRACE OFF _____><
```

### 2.14 UNSELECT Command

The UNSELECT ALL command and keyword combination deletes all terminals and modules from the LU and MODSTAT selection lists. In other words, UNSELECT LU= removes specific terminals from the LU selection list.

The UNSELECT MODSTAT= command and keyword combination deletes specific modules from the MODSTAT selection list (or removes modules from the MODSTAT selection list).

```
>>_UNSELECT _____><
                   ALL
                   LU=tid*
                   MODSTAT=pgm*
                   TEMPORARY
                   PERMANENT
```

➔ **Note:** For details on how to place terminals and modules on the selection list, see the SELECT command on page 14.

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## CHAPTER 3: DISPLAY COMMANDS

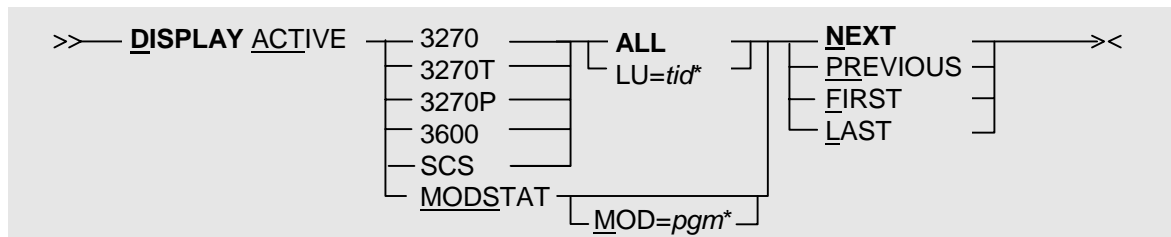
The DISPLAY command presents screens that contain all optimization information about CICS OTTO. Among the types of information you can view using this command are:

- All LU and module specific optimization information.
- Statistics.
- Trace information.

In this section, each of the DISPLAY command keywords and each of the related screens are described.

### 3.1 DISPLAY ACTIVE

Use the DISPLAY ACTIVE command and keyword combination to display all LUs and modules that are currently active in CICS OTTO's optimization process.



DISPLAY ACTIVE keywords	Description
3270, 3270T, 3270P, 3600 or SCS	Identifies the specific terminal type currently optimized. If no specific or generic LU name is provided, all of the LUs will be listed. Note: 3270T = 3270 type terminals and 3270P = 3270 type printers.
MODSTAT	Displays all modules that are currently in the module statistics list. If the module statistics are started with the MAXNO keyword, listed are only those modules optimized by CICS OTTO for which statistics have been saved.
ALL	Displays all terminals. This is the default.
LU= <i>tid</i> *	Specifies a specific or generic LU name. If used, you must replace <i>tid</i> with a valid or generic terminal ID.

DISPLAY ACTIVE keywords	Description
MOD= <i>pgm</i> *	If using MODSTAT, you can also specify a specific or a generic program name. Replace <i>pgm</i> with a valid or generic program name.
NEXT	Displays the next screen of a list. This is the default.
PREVIOUS	Displays the previous screen of a list.
FIRST	Displays the first screen of a list.
LAST	Displays the last screen of a list.

### DISPLAY ACTIVE component

When the DISPLAY ACTIVE command and keyword combination is used for a component, the following screen is displayed.

```

CICS1                Online Transmission Time Optimizer V1R2          vvm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074     17-01-54 LU-Y   3% -NA- VSM  SEQ    FULL    FULL    FULL
           2006                MO-Y                OFF  OUTIMAGE  OUT    OUT
                               SE-Y

                    ACTIVE 3270 Terminals (Except Printers)

TERMINAL  TERMINAL  TERMINAL  TERMINAL  TERMINAL  TERMINAL  TERMINAL  TERMINAL

id
**LAST**

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D ACT 3270T_____ F3=END

```

**Figure 2: DISPLAY ACTIVE Screen**

#### Screen Description

**vvm/ptflv** Is replaced by the actual version, release, and PTF level.

**id** Is replaced by the name of the terminal type active in the list.

## DISPLAY ACTIVE component

When the DISPLAY ACTIVE command and keyword combination is used for a component, the following screen is displayed.

```
CICS1                Online Transmission Time Optimizer V1R2                vvm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074    17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL    FULL    FULL
                2006                MO-Y                OFF    OUTIMAGE  OUT    OUT
                SE-Y

                        ACTIVE 3270 LUs

LU        LU        LU        LU        LU        LU        LU        LU

luname
**LAST**

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D ACT 3270T _____ F3=END
```

**Figure 3: DISPLAY ACTIVE Screen**

### Screen Description

***luname*** Is replaced by the name of the LU in the active list.

## DISPLAY ACTIVE MODSTAT

When the DISPLAY ACTIVE command and keyword combination is used with the MODSTAT keyword, the following screen is displayed.

```
CICS1                Online Transmission Time Optimizer V1R2                vvm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074    17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL    FULL    FULL
                2006                MO-Y                OFF    OUTIMAGE  OUT    OUT
                SE-Y

                        Active Modules

MODULE      MODULE      MODULE      MODULE      MODULE      MODULE      MODULE      MODULE

mod
mod
mod
**LAST**

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D ACT MODS_____ F3=END
```

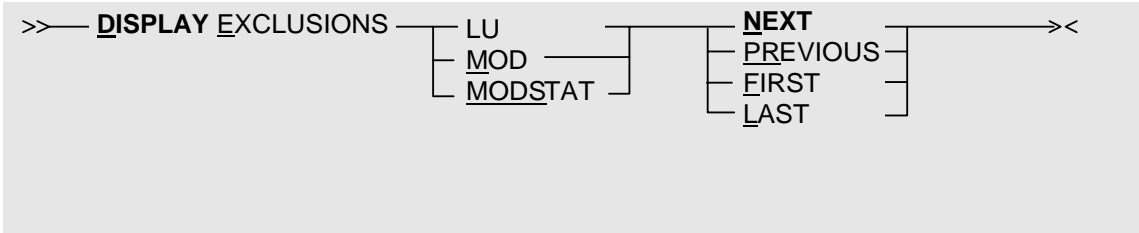
**Figure 4: DISPLAY ACTIVE MODSTAT Screen**

### Screen Description

**mod** Name of module(s) included in the active module statistics list.

### 3.2 DISPLAY EXCLUSIONS

When CICS OTTO is fully started, all terminals and modules are included in the optimization process unless they are specifically excluded. Use the EXCLUSIONS keyword to display all LUs and modules that are to be excluded from the optimization process. This command can also be used to display all modules that are excluded from saving module statistics.



DISPLAY EXCLUSIONS keywords	Description
LU	Displays the LU exclusion list.
MOD	Displays the module exclusion list.
MODSTAT	Displays the module statistics exclusion list.
NEXT	Displays the next screen of LUs, modules, or module statistics exclusion list. This is the default.
PREVIOUS	Displays the previous screen of LUs, modules, or module statistics exclusion list.
FIRST	Displays the first screen of LUs, modules, or module statistics exclusion list.
LAST	Displays the last screen of LUs, modules, or module statistics exclusion list.

## DISPLAY EXCLUSIONS LU

```
CICS1                Online Transmission Time Optimizer V1R2          vvm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074     17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL  FULL  FULL
                2006                MO-Y                OFF  OUTIMAGE  OUT  OUT
                SE-Y

                        LU Exclusion List

LU          CURRENT  PERM.  LU          CURRENT  PERM.  LU          CURRENT  PERM.
tid         pt       pt
*****LAST*****

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D E LU _____ F3=END
```

**Figure 5: DISPLAY EXCLUSIONS LU Screen**

### Screen Description

- tid** LU name that is excluded from optimization
- pt** YES if this is a permanent exclusion  
NO if this is a temporary exclusion

## DISPLAY EXCLUSIONS MOD

```
CICS1                Online Transmission Time Optimizer V1R2                vmmm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074    17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL    FULL    FULL
                2006                MO-Y                OFF    OUTIMAGE  OUT    OUT
                SE-Y

                        Module Exclusion List

MODULE  CURRENT  PERM.  MODULE  CURRENT  PERM.  MODULE  CURRENT  PERM.
mod      pt      pt
*****LAST*****

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D E M _____ F3=END
```

**Figure 6: DISPLAY EXCLUSIONS MOD Screen**

### Screen Description

- mod**                      Module name that is excluded from optimization
- pt**                        YES if this is a permanent exclusion  
                             NO if this is a temporary exclusion

## DISPLAY EXCLUSIONS MODSTAT

```
CICS1                Online Transmission Time Optimizer V1R2                vmmm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074     17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL  FULL  FULL
          2006          MO-Y          OFF  OUTIMAGE  OUT  OUT
                    SE-Y

                    Module Statistics Exclusion List

MODULE  CURRENT  PERM.  MODULE  CURRENT  PERM.  MODULE  CURRENT  PERM.
mods    pt      pt
*****LAST*****

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D E MODS_____ F3=END
```

**Figure 7: DISPLAY EXCLUSIONS MODSTAT Screen**

### Screen Description

- mods**                    Module name that is excluded from statistics
- pt**                     YES   if this is a permanent exclusion  
                         NO    if this is a temporary exclusion



### 3.3 DISPLAY OPTIONS

Use the DISPLAY OPTIONS command and keyword combination to display all optimization options that are applicable to the system or individual components. Such options include start option, date format, exclusions, etc.

```
>>— DISPLAY OPTIONS ——— SYSTEM —————><
      | 3270 ——— |
      | SCS ——— |
      | 3600 ——— |
      | LU=tid* ——— |
      | MOD=pgm* ——— |
```

DISPLAY OPTIONS keywords	Description
SYSTEM	Displays system-wide options like DBCS support, date formatting, etc. This is the default.
3270, SCS, or 3600	Displays the various options for these components.
LU= <i>tid</i> * MOD= <i>pgm</i> *	Displays the options for a specific terminal identified by <i>tid</i> or a specific module identified by <i>pgm</i> . If no specific option is set for a given terminal or module all equivalent component options apply to the terminal/module.

## DISPLAY OPTIONS SYSTEM

```

CICS1                Online Transmission Time Optimizer V1R2          vvmv/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074    17-01-54 LU-Y  3% -NA- VSM SEQ    FULL  FULL  FULL
                2006                MO-Y          OFF  OUTIMAGE  OUT  OUT
                                SE-Y

                                System Options

DBCS support . . . . . : CURRENT          **      PERM.
Date formatting. . . . . : conoff          **      fonoff
User exit. . . . . : conoff/cnam        **      onoff/fnam
Module statistics. . . . . : cstat          **      fstat
Max number entries for module statistics . . : cmaxno        **      fmaxno
LU exclusions. . . . . : cact            **      fact
Module exclusions. . . . . : cact            **      fact
LU selections. . . . . : cact            **      fact
Exclusions from module statistics. . . . . : cact            **      fact
Selections for module statistics . . . . . : cact            **      fact
Terminal ID / Transaction ID . . . . . : cterm/ctran        **      fterm/ftran

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D O SYS_____ F3=END

```

**Figure 8: DISPLAY OPTION SYSTEM Screen**

### Screen Description

- conoff**                    currently ON or OFF
- fonoff**                    ON or OFF on file
- cnam**                      name of current active user exit module
- fnam**                      name of user exit module on file
- cdform**                    current date formatting:  
                              JULIAN or EUROPEAN or AMERICAN
- fdform**                    date formatting on file:  
                              JULIAN or EUROPEAN or AMERICAN
- cstat**                      current status:  
                              FULL STARTED if fully started  
                              SELECTIVE STARTED if selectively started
- fstat**                      status on file:  
                              FULL STARTED if fully started  
                              SELECTIVE STARTED if selectively started
- cmaxno**                    max. number of modules for which statistics are currently saved;  
                              asterisks if not explicitly set
- fmaxno**                    permanent max. value of modules for which statistics are to be  
                              saved; asterisks if not explicitly set.
- cact**                        entries currently ACTIVE or INACTIVE

<b><i>fact</i></b>	entries permanently ACTIVE or INACTIVE
<b><i>cterm/fterm</i></b>	In the event SET TERMID=CICS was used, CICS will appear. In the event SET TERMID=VTAM, VTAM will appear.
<b><i>ctran/fterm</i></b>	Indicates whether TRANSID ON or OFF was used.

## DISPLAY OPTIONS 3270

```

CICS1                Online Transmission Time Optimizer V1R2          vvm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074     17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL    FULL    FULL
                    2006      MO-Y          OFF  OUTIMAGE  OUT    OUT
                    SE-Y

                    Options for Component 3270

                    CURRENT ** PERM.                CURRENT ** PERM.

Start status . . . : cstat      fstat      Trace . . . . . : conoff    *****
Opt. level . . . :  colev      folev      Zero-MF-allowed : conoff    fonoff
Compress images :  conoff      fonoff      Blank elimination: conoff    fonoff
Field merge . . . :  conoff      fonoff      Printer linesize : clsize    plsize
Lightpen . . . . :  conoff      fonoff      Init-value LUs . : *****    16
3192 . . . . . :  conoff      fonoff      LU CBs in use . :      16    *****
WCC-ignore . . . :  conoff      fonoff
Base color switch: conoff      fonoff      Clear TIOA . . . : conoff    fonoff

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> d o 3270_____ F3=END

```

**Figure 9: DISPLAY OPTION 3270 Screen**

### Screen Description

- cstat**                    current status:  
                           FULL if fully started  
                           SELECTIVE if selectively started
- fstat**                    permanent status on file:  
                           FULL if fully started  
                           SELECTIVE if selectively started
- colev**                    current optimization level for component
- folev**                    permanent optimization level for component
- conoff**                  currently ON or OFF
- fonoff**                  ON or OFF on file
- clsize**                  current line size for printers
- plsize**                  permanent line size for printers (on file)

## DISPLAY OPTIONS 3600

```

CICS1                               Online Transmission Time Optimizer V1R2          vmmm/ptfl
                                Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074     17-30-50 LU-Y  3% -NA- VSM  SEQ    FULL   FULL   FULL
                2006                MO-Y                OFF   OUTIMAGE OUT   OUT
                                SE-Y

                                options for component 3600

                                CURRENT      **   PERM.

Start status . . . . . :          cstat      **   fstat
Trace . . . . . :          conoff      **   fonoff
Prime compr. character . . :        cpc       **   fpc
Optimization level . . . . :        colev     **   folev
Init-value number LU's . . :        ***** **   fnnn
LU control blocks in use . . :        cnnn     **   *****
Clear TIOA . . . . . :          conoff      **   fonoff

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D O 3600_____ F3=END

```

**Figure 10: DISPLAY OPTION 3600 Screen**

### Screen Description

- cstat**                    current status:  
                             FULL STARTED if fully started  
                             SELECTIVE STARTED if selectively started
- fstat**                    permanent status on file:  
                             FULL STARTED if fully started  
                             SELECTIVE STARTED if selectively started
- conoff**                  currently ON or OFF
- fonoff**                  ON or OFF on file
- cpc**                     current prime compression character
- fpc**                     permanent prime compression character
- colev**                  current optimization level for component
- folev**                  permanent optimization level for component
- cnnn**                    number of control blocks currently in use
- fnnn**                    initialized number of LUs for system startup that are defined on file

## DISPLAY OPTIONS SCS

```

CICS1                      Online Transmission Time Optimizer V1R2          vvm/ptfl
                          Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074     17-30-50 LU-Y  3% -NA- VSM  SEQ    FULL   FULL   FULL
          2006                MO-Y          OFF  OUTIMAGE  OUT   OUT
          SE-Y

                          Options for Component SCS

                                CURRENT      **   PERM.

Start status . . . . . :          cstat      **   fstat
Trace . . . . . :          conoff      **   fonoff
Linesize . . . . . :          clnsz      **   flnsz
SCS optimization . . . . . :          cscso      **   fscso
Init-value number LU's . . . :          ***** **   fnnn
LU control blocks in use . . :          cnnn      **   *****
Clear TIOA . . . . . :          conoff      **   fonoff

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D O SCS_____ F3=END

```

**Figure 11: DISPLAY OPTION SCS Screen**

### Screen Description

- cstat***                    current status:  
                               FULL if fully started  
                               SELECTIVE if selectively started
- fstat***                    permanent status on file:  
                               FULL if fully started  
                               SELECTIVE if selectively started
- conoff***                   currently ON or OFF
- fonoff***                   ON or OFF on file
- clnsz***                   current line size for SCS-printer
- flnsz***                   permanent line size for SCS-printer
- cscso***                   current optimization method:  
                               SCS if standard SCS optimization is performed  
                               3270 if 3270 printer optimization is performed
- fscso***                   optimization method on file:  
                               SCS if standard SCS optimization is performed  
                               3270 if 3270 printer optimization is performed
- cnnn***                    number of control blocks currently in use
- fnnn***                    initialized number of LUs for system startup that are defined on file

**DISPLAY OPTIONS LU=tid**

```

CICS1                      Online Transmission Time Optimizer V1R2          vvm/ptfl
                          Copyright Software Engineering GmbH, 1987 - 2006

---LU---  --DATE--  --TIME--  INEX POOL EXIT CTR TRACE  --3270--  --SCS---  --3600--
0113      074      17-30-50 LU-Y  3% -NA- VSM  SEQ    FULL    FULL    FULL
          2006          MO-Y          OFF    OUTIMAGE  OUT    OUT
          SE-Y

Options for Terminal tid      Component comp

CURRENT ** PERM.                CURRENT ** PERM.

Start status . . . : cstat      fst      Trace . . . . . : conoff      *****
Opt. level . . . : colev      folev    Zero-MF-allowed : conoff      fonoff
Compress images : conoff      fonoff   Prime compr.char : cpc         fpc
Field merge . . : conoff      fonoff   Printer linesize : clnsz      flnsz
Lightpen . . . . : conoff      fonoff   SCS optimization : csco       fcsco
3192 . . . . . : conoff      fonoff   Excluded . . . . : cact       fact
WCC-ignore . . . : conoff      fonoff   Selected . . . . : cact       fact
Base color switch: conoff      fonoff   Blank elimination: conoff      fonoff
Clear TIOA . . . : conoff      fonoff   Clear TIOA . . . : conoff      fonoff

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> d o LU=0113_____ F3=END

```

**Figure 12: DISPLAY OPTION LU=tid Screen**

**Screen Description**

- Tid**                    entered LU name
- Comp**                component to which the LU belongs; asterisks if not yet known
- Cstat**                current status:
  - ACTIVE
  - STOPPED
- fstat**                permanent status on file:
  - ACTIVE
  - STOPPED
- conoff**                currently ON or OFF
- fonoff**                ON or OFF on file
- cact / fact**            terminal relates to current / permanent list entry
- colev / folev**            current / permanent optimization level for terminal
- clnsz / flnsz**            current / permanent line size for SCS/3270 type printer
- cpc / fpc**                current / permanent prime compression character

## DISPLAY OPTIONS MOD=*mod*

```

CICS1                Online Transmission Time Optimizer V1R2          vvm/ptflv
                    Copyright Software Engineering GmbH, 1987 - 2006

---LU--- --DATE-- --TIME-- INEX POOL EXIT CTR TRACE  --3270-- --SCS--- --3600--
0113      074    17-01-54 LU-Y  3% -NA- VSM  SEQ    FULL    FULL    FULL
                    2006      MO-Y          OFF    OUTIMAGE  OUT    OUT
                    SE-Y

                OPTIONS FOR MODULE  mod

                CURRENT ** PERM.                CURRENT ** PERM.

Start status . . . : cstat      fstat
Opt. level . . . . : colev     folev
Compress images. : *****
Lightpen . . . . . : conoff    fonoff
3192 . . . . . . . : *****
WCC-ignore . . . . : conoff    fonoff
Base color switch: *****

Trace . . . . . . . : conoff    fonoff
Zero-MF-allowed. . : *****
Prime compr.char : cpc         fpc
Printer linesize : clnsz      flnsz
SCS optimization : cscso     fscso
Excluded . . . . . : cact      fact
Blank elimination: conoff    fonoff
Clear TIOA . . . . : conoff    fonoff

ABL5001I COMMAND SUCCESSFULLY PROCESSED
OTTO COMMAND ==> D O MOD=OTTOMC00_____ F3=END

```

**Figure 13: DISPLAY OPTION MOD=*mod* Screen**

### Screen Description

<b><i>mod</i></b>	entered module name
<b><i>cstat</i></b>	current status (for module always asterisks)
<b><i>fstat</i></b>	permanent status on file (for module always asterisks)
<b><i>conoff</i></b>	currently ON or OFF
<b><i>fonoff</i></b>	ON or OFF on file
<b><i>cact</i></b>	module relates to current list entry
<b><i>fact</i></b>	module relates to permanent list entry
<b><i>colev</i></b>	current optimization level for module
<b><i>folev</i></b>	permanent optimization level for module
<b><i>clnsz</i></b>	current line size for SCS/3270 type printer
<b><i>flnsz</i></b>	permanent line size for SCS/3270 type printer
<b><i>cpc / fpc</i></b>	current / permanent prime compression character
<b>*****</b>	not available for module



### 3.4 DISPLAY SELECTED

When CICS OTTO is selectively started, only selected LUs will be included in the optimization process. Use the `SELECTED` keyword to display all LUs and modules that are selectively included. This command also displays the module statistics selection list for all modules that will be included in the statistics process if the statistics are selectively started.



DISPLAY SELECTED keywords	Description
LU	Displays the LU selection list for all LUs that will be included in the optimization process when optimization is selectively started.
MODSTAT	Displays the module statistics selection list for all modules that will be included in the statistics process when statistics are selectively started.
NEXT	Displays the next screen or module statistics selection. This is the default.
PREVIOUS	Displays the previous screen or module statistics selection.
FIRST	Displays the first screen or module statistics selection.
LAST	Displays the last screen or module statistics selection.



























































