



This is the tutorial for IBM Debug Tool for z/OS[®], one of the IBM zSeries[®] problem determination tools.



Debugging CICS® Applications

- Starting the debugger using the DTCN transaction
 - Creating a DTCN profile
 - Working with DTCN profiles
 - Setting the current terminal ID in a DTCN profile
- Creating and editing a DTCN profile using the GUI plug-in
- Starting the debugger using the CADP transaction
 - Creating a CADP profile
 - Working with CADP profiles
 - Setting the current terminal ID in a CADP profile

This section is an introduction to using Debug Tool with programs that run in CICS environments.

Starting Debug Tool with CICS applications



- The same interfaces to the debugger are available in both batch and CICS environments:
 - Terminal full-screen interface
 - Remote GUI interface
- Using the debugger is the same in CICS and batch
- However, the method used to *start* the debugger is unique in CICS

3

IBM Debug Tool for z/OS tutorial

© 2012 IBM Corporation

Debug Tool can be used to debug CICS programs. The same debugging interfaces that can be used in other environments can be used in CICS, including the terminal interface and the graphical user interface. You will use the same commands and features when you work with CICS programs as when you work in other environments. However, the way you start Debug Tool is unique in CICS.

- The Debug Tool installer selects one of these methods to start the debugger in CICS

- The [DTCN](#) transaction
 - Used to define a profile to start the debugger for one or more CICS programs
 - There is an optional graphical user interface for DTCN
 - DTCN profiles can be set from a workstation without using a terminal
 - DTCN is a feature of IBM Debug Tool for z/OS

- The [CADP](#) transaction
 - Used to define one or more profiles to start the debugger for CICS programs
 - CADP is a feature of CICS

This tutorial describes two methods for starting the debugger, DTCN and CADP. In any given CICS region, you will use one method or the other, but not both.

If DTCN is used on your system, you use it to define a profile that will trigger the debugger when certain CICS programs or transactions run. After you define the profile, you run the target transactions, and the debugger starts. In your profile, you can specify the names of several different programs that you want to debug. DTCN is a feature of Debug Tool.

The CADP transaction provides a similar function, but it allows you to define more than one debugging profile. CADP is a feature of CICS, and is available in CICS version 2.3 and later.

Generally, DTCN is the suggested method, since it provides additional capabilities to pinpoint the exact instance of a program that you want to debug. For example, a debugging trigger can optionally be set in DTCN that will trigger only if certain data values are found in a commarea or container. Another advantage of DTCN is that debugging profiles can be defined from an optional graphical interface. You can create a profile from a workstation without logging on to a CICS terminal. The person or group that installs Debug Tool decides which method is implemented in your CICS regions. Determine which method is available on your system, DTCN or CADP, and view the sections of the tutorial that pertain to your system.

Feedback



Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send email feedback:

mailto:iea@us.ibm.com?subject=Feedback_about_DTv12s21IntroductionToCICSDebugging.ppt

This module is also available in PDF format at: [../DTv12s21IntroductionToCICSDebugging.pdf](http://DTv12s21IntroductionToCICSDebugging.pdf)

You can help improve the quality of IBM Education Assistant content by providing feedback.



Trademarks, copyrights, and disclaimers

IBM, the IBM logo, ibm.com, CICS, z/OS, and zSeries are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)" at <http://www.ibm.com/legal/copytrade.shtml>

Other company, product, or service names may be trademarks or service marks of others.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2012. All rights reserved.