Chapter 1

INTRODUCTION

Get on the Fast Track!

SYS-ED/ COMPUTER EDUCATION TECHNIQUES, INC.
Objectives

You will learn:

C Three transaction architecture.
C Source-level testing and debugging facilities.
C CICS Storage Protection facilities.
C File utility.
1 Product Overview

Xpediter/CICS provides the capability for interacting directly with complete control over the executes while:

- Viewing and interacting with program source code online.
- Displaying and updating records in files, transient data, temporary storage, DB2 tables, and DL/I databases.
- Stopping execution of a program at any point and examine working storage.
- Resuming execution at any point and examine working storage.
- Executing statements one at a time while examining program logic.
- Modifying any program data and any CICS table or area.
- Monitoring remote transactions.
- Ensuring region integrity through storage protection.

XPEDITER/CICS provides alternatives for problem resolution. When a problem is identified, specific statements can be selected at which to suspend execution, then analyze both working storage and program traces.

If a program stops at an abend, the program can be corrected the abend can be bypassed.

In order to bypass the abend, instruct XPEDITER/CICS to resume execution past the point of the abend by specifying the statement number or offset.
## Three Transaction Architecture

<table>
<thead>
<tr>
<th>Variant</th>
<th>Description</th>
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<tbody>
<tr>
<td>XPED</td>
<td>For application programmers who desire a source-level focus to debugging.</td>
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<tr>
<td>XPRT</td>
<td>For application programmers who prefer a stop/abend focus.</td>
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<tr>
<td>XPSP</td>
<td>For experienced system programmers who are authorized to update CICS tables and control areas.</td>
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2.1. XPED Transaction

The application can be a COBOL, PL/I, or Assembler program.

XPED provides enhanced debugging features, and providing the capability to browse CICS storage areas. It also allows storage protection options, abend traps, and trace options to be set.

A debugging session can be customized through profile options that can be store and used again.

If an abend occurs, XPEDITER/CICS automatically displays the SOURCE LISTING screen.
2.2. XPRT Transaction

XPRT transaction is intended for CICS application programmers who prefer the BREAK/ABEND approach to testing and debugging.
2.3. XPSP Capabilities

- XPSP transaction is designed for those systems programmers authorized to update unprotected CICS tables and control areas.
- CICS storage and table editor.
- Power to activate storage protection anywhere in the CICS region.
- Ability to analyze hung (system suspended) CICS transactions and chain through CICS storage areas.
3 Source-Level Testing and Debugging Facilities

- Including an interactive, full-screen, source-code editor for PL/I, COBOL and Assembler programs.
- Allows dynamic interaction with program source listings.
- Steps through (executes) program statements and instructions in timed slow motion or one at a time (single stepping).
- Stops execution before or after specified statements or instructions.
- Skips or redirects execution around specified statements or instructions.
- Detects, isolates, and prevents transaction abends and storage violations.
- Allows interactive changes to program variables.
- Bypasses or modifies faulty logic flow.
- Provides a statement-level trace.
- Counts executions of repetitive statements or paragraphs.
- Interfaces dynamically with Compuware's CICS Abend-AID diagnostic product.
4 CICS Storage Protection Facilities

- Region-wide protection capability.
- Protection filters by terminal, transaction, and program.
- Protection exceptions plus interactive and unattended protection options.
- Over 60 detailed diagnostics from XPEDITER/CICS.
- Full range of CICS Abend-AID diagnostics.
5  File Utility

C  Browse, edit, and map records from CICS files.

C  Support for BDAM and VSAM files, temporary storage, transient data, DB2, and DL/I databases.