

Chapter
1

INTRODUCTION

*Get on the
Fast Track!*



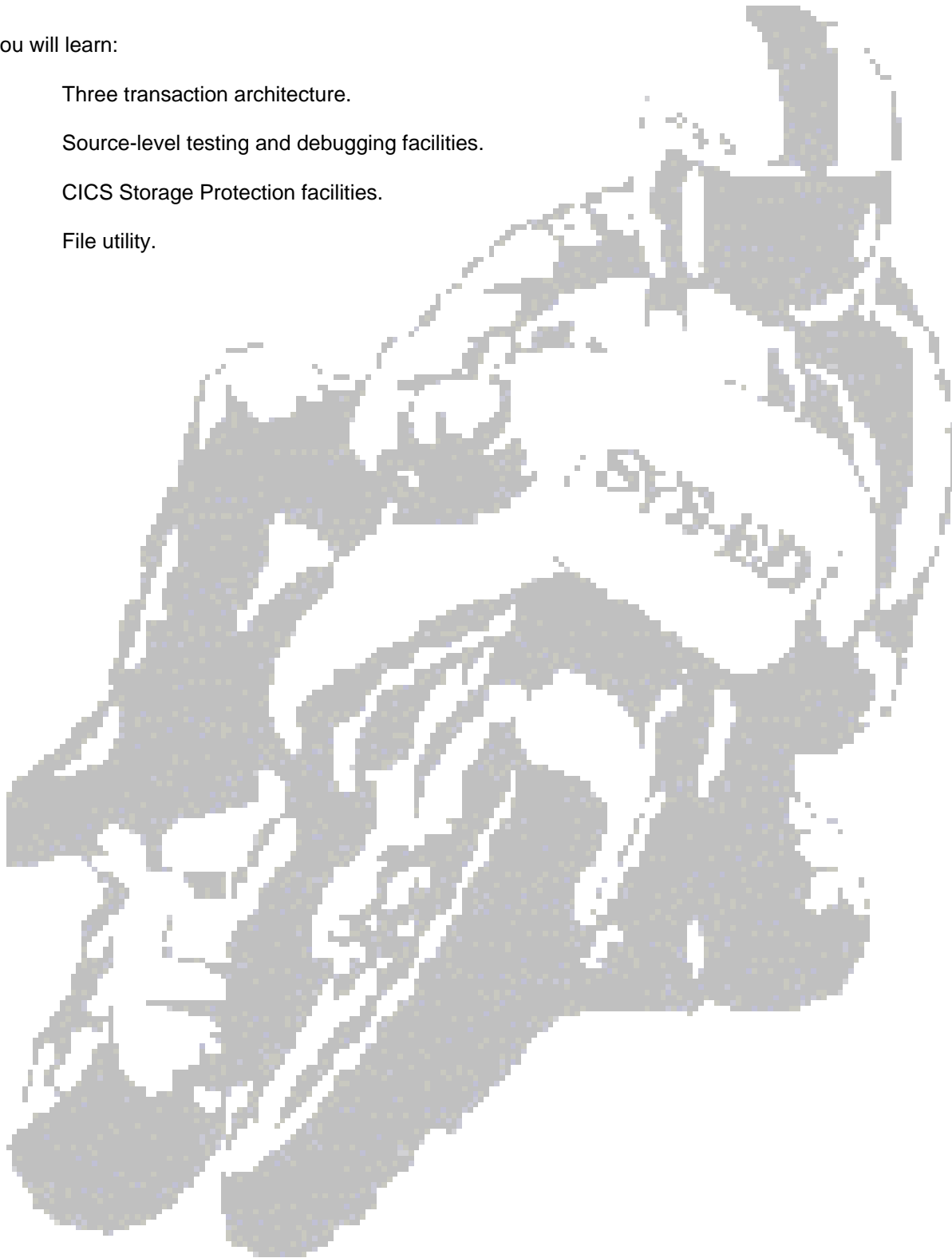
TM

**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:

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

2 Three Transaction Architecture

XPED	For application programmers who desire a source-level focus to debugging.
XPRT	For application programmers who prefer a stop/abend focus.
XPSP	For experienced system programmers who are authorized to update CICS tables and control areas.

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 .

```
----- XPEDITER CICS - SOURCE LISTING (2.L) -----
COMMAND ==> PEEK WA-TAX-RAT          SCROLL ==> CSR
PROGRAM: CWDEMCBL  MODULE: CWDEMCBL  COMP DATE: 07/23/93  COMP TIME: 15.44.26
LV ----- COBOL DATANAME KEEPS ----- ATTRIBUTES -----+-----20--->
77 CURR-PAY          9(5)V99          0000000
02 WA-HOURS          999              $$$
02 WA-RATE           9(3)V99          00950

----- ASRA at CWDEMCBL.431 ->
=====
000432      COMPUTE CURR-PAY  EQUAL WA-HOURS * WA-RATE
000433          COMPUTE CURR-TAXES  EQUAL CURR-PAY * WA-TAX-RAT
000434          ADD CURR-PAY      TO WA-YTD-GRS
000435          ADD CURR-TAXES TO WA-YTD-TAX.
000436      IF PAYEMP1 EQUAL '00001'
000437          MOVE WORK-AREA TO PAYROLL-DATA-EMP001
000438
000439      IF PAYEMP1 EQUAL '00999'
000440          MOVE WORK-AREA TO PAYROLL-DATA-EMP999
000441
000442      400-TRANSACTION-COMPLETE
000443          MOVE PAYEMP1  TO EMPNUMB
000444          MOVE WA-NAME  TO EMPNUMB
```

2.3. XPSP Capabilities

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

3 Source-Level Testing and Debugging Facilities

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

4 CICS Storage Protection Facilities

- C Region-wide protection capability.
- C Protection filters by terminal, transaction, and program.
- C Protection exceptions plus interactive and unattended protection options.
- C Over 60 detailed diagnostics from XPEDITER/CICS.
- C 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.

