

**Chapter
2**

**GENERAL RULES
AND FORMAT**

*Get on the
Fast Track!*



TM

**SYS-ED/
Computer
Education
Techniques, Inc.**

Objectives

You will learn:

- Xpediter PRIMARY MENU.
- Entering commands.
- Screen commands.
- UTILITIES from PRIMARY MENU.
- DDIO file: creation.
- UTILITIES MENU selection.
- Setting up the run-time environment.
- SETUP MENU.
- PROGRAM PREPARATION MENU.
- COMPILE FACILITY.
- COMPILE STEP.
- LINKEDIT STEP.
- Profile - DEFAULT.

1 Xpediter PRIMARY MENU

This is the initial PRIMARY MENU display in Xpediter.

```
----- XPEDITER/TSO 9.0 - PRIMARY MENU -----
OPTION  ==>

      0  DEFAULTS      - Specify defaults
      1  PREPARE       - Prepare programs for debugging
      2  TSO           - Debug programs interactively under TSO
      3  BATCH         - Debug programs interactively under batch
      4  STORED PROC   - Debug DB2 Stored Procedures interactively
      5  UTILITIES     - Perform utility functions

      FA FILE-AID     - Invoke File-AID for MVS

      C  CODE COVERAGE - Code Coverage Reports and Utilities

      T  TUTORIAL     - Display information about XPEDITER/TSO
      X  EXIT          - Exit primary menu

Profile ==> DEFAULT - *** NO DESCRIPTION ***

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      Press ENTER to process or enter END command to terminate
```

2 Screen Format

There are four types of screens:

Entry Menu	List of options.
Entry Screen	Fill in labeled fields.
Scrollable Display	Display data larger than the screen.
Scrollable Edit	Displays program source and status information.

The top three lines are:

Active Source File	Title	Active Breakpoint
--------------------	-------	-------------------

Command Area	Scroll Amt
--------------	------------

Message Area

3 Commands

3.1 Entering Commands

Xpediter commands can be entered in four ways:

- Command Area.
- PF key.
- Overtyping the COBOL statement number.
- Recalling the previous primary command with ?-RECALL.

3.2 Rules

The rules for Xpediter commands are:

- A note can be entered in the log by typing an * followed by the comment in the command area.
- Commands are converted to upper case letters.
- In a script stream, all commands must be in upper case.
- Command stacking is permitted using the semicolon - ; .
- Many line commands have a primary equivalent.
- The values of the PF keys can be changed; the values of the PA keys cannot be changed.

This is the standard debugging screen; it presents a 0C7 in a COBOL program.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
      S0C7 ABEND ENCOUNTERED, USE "AA SNAP" COMMAND FOR ADDITIONAL INFORMATION
000024  01 PAGE-CNTR                        > ??????      INVALID PACKED
      ** END **

----- S0C7 Abend at BOMBER:95/AMODE 31 <>
000094      MOVE 3 TO LINE-CNTR                                0007
=====>      ADD 1 TO PAGE-CNTR                                0008
000096      MOVE PAGE-CNTR TO CHL1-PAGE                        0009
000097      MOVE CAT-HEADER-LINE1 TO PRINT-AREA                0010
000098      WRITE PRINT-AREA AFTER ADVANCING PAGE              0011
000099      MOVE CAT-HEADER-LINE2 TO PRINT-AREA                0012
000100      WRITE PRINT-AREA AFTER ADVANCING 2 LINES           0013
000101      .                                                    0014
***** BOTTOM OF MODULE *****

```

3.3 Standard PF/PA Keys Description

PF/PA	DESCRIPTION
PA1	ATTENTION
PA2	RESHOW
PF1	HELP
PF2	PEEK CSR
PF3	END
PF4	QUIT
PF5	FIND
PF6	LOCATE *
PF7	UP
PF8	DOWN
PF9	GO 1
PF10	LEFT
PF11	RIGHT
PF12	GO

3.4 SCROLL Values

Scroll Value	Description
PAGE,P	Single page.
HALF,H	Half page.
DATA,D	One line or column less than a page.
MAX,M	Scroll to top, bottom, left side or right side.
CSR,C	Based on the cursor position.
Nnnn	Number of lines to scroll.

4 SCREEN Commands

DOWN [n] [CSR] [DATA] [HALF] [Max] {PAGE}

UP [n] [CSR] [DATA] [HALF] [Max] {PAGE}

RIGHT [n] [DATA] [HALF] [Max] {PAGE}

LEFT [n] [DATA] [HALF] [Max] {PAGE}

- Maximum value for n is 9999.
- Scrolling commands are not recorded in the log.
- Scrolling commands are not valid in batch test runs.

5 UTILITIES from PRIMARY MENU - DDIO File: Creation

In order to create a DDIO dataset, select Utility - Option 5.

```
----- XPEDITER/TSO 9.0 - PRIMARY MENU -----
OPTION ==>

    0  DEFAULTS      - Specify defaults
    1  PREPARE       - Prepare programs for debugging
    2  TSO           - Debug programs interactively under TSO
    3  BATCH         - Debug programs interactively under batch
    4  STORED PROC   - Debug DB2 Stored Procedures interactively
    5  UTILITIES     - Perform utility functions

    FA  FILE-AID     - Invoke File-AID for MVS

    C   CODE COVERAGE - Code Coverage Reports and Utilities

    T   TUTORIAL     - Display information about XPEDITER/TSO
    X   EXIT         - Exit primary menu

Profile ==> DEFAULT - *** NO DESCRIPTION ***

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```

**6 UTILITIES MENU Selection -
DDIO FILE FACILITY**

Select option 3 to create a DDIO file:

```
----- XPEDITER/TSO - UTILITIES MENU -----  
OPTION  ===>  
  
1 REGION SIZE           - Display memory available for testing  
2 LIST ALLOCATES       - Display files allocated to your test session  
3 DDIO FILE FACILITY   - Create/Format/Copy/Export and list DDIO file(s)  
5 CONVERT PROFILE      - Convert XPEDITER/TSO release 5.1 user profiles  
6 CONVERT INCLUDE      - Convert include scripts to new qualification rules  
7 MERGE                - Merge profiles from alternate users
```

Press ENTER to process or enter END command to terminate

7 DDIO FILE FACILITY - Create and Format

Select option C to create and format a DDIO dataset:

```

Profile: DEFAULT ----- XPEDITER/TSO - DDIO FILE FACILITY -----
COMMAND ==>

Hardcopy Options:                               Source Listing Options:
  Page Size ==> 60                               Confirm Delete ==> YES
  SYSOUT Class ==> Q                             Language ==> ENGLISH
  Destination ==>

SEL Options:  C (Create/Format)  I (Info)  S (DDIO Member List)
              O (Option - copy/move/import/export)

SEL ----- DDIO File(s) -----
C      '#6003.TRAINING.ENDCLASS.DEV.DDIO'
```

7.1 DDIO CREATE/FORMAT FACILITY

Use the foreground preparation option and a file type of VSAM:

```

----- XPEDITER/TSO - DDIO CREATE/FORMAT FACILITY -----
COMMAND ==>
Commands: SSetup (Setup panel)  D (Delete file)

      DDIO File ==> '#6003.TRAINING.ENDCLASS.DEV.DDIO'

      Preparation ==> f           (Batch/Editjcl/Foreground)
      File Type ==> VSAM         (Vsam/Sequential)

      Storage Class ==>           (optional)
      Management Class ==>       (optional)
      Data Class ==>             (optional)
      Volume ==>                 (optional)
      Unit ==>                   (optional)

      Space Units ==> TRACKS     (Blocks/Tracks/Cylinders)
      Primary Quantity ==> 200
      Number of Members ==> 500  (1 to 32767 <= reptcount)
```

Press ENTER to process or enter END command to terminate

7.2 DDIO FILE FACILITY

```

----- XPEDITER/TSO - UTILITIES MENU -----
OPTION ==>

1 REGION SIZE          - Display memory available for testing
2 LIST ALLOCATES      - Display files allocated to your test session
3 DDIO FILE FACILITY  - Create/Format/Copy/Export and list DDIO file(s)
5 CONVERT PROFILE     - Convert XPEDITER/TSO release 5.1 user profiles
6 CONVERT INCLUDE     - Convert include scripts to new qualification rules
7 MERGE               - Merge profiles from alternate users
    
```

7.3 DDIO Create/Format Facility

```

----- CSS UTILITIES - Source Listing File Facility ----- CSS V8.7.0
COMMAND ==>
Commands:  SETup      DDIOCALC (DDIO calculator)
           DD (DDIO tutorial)  SD (SD/DB tutorial)  LP (LP tutorial)

Processing Options for S/Member List:          Source Browsing Options:
  Confirm Delete ==> YES (Yes or No)           Unit ==> VIO
  Show print setup ==> YES (Yes or No)         Blocking ==> 10
  Language ==> ENGLISH                         (ENGLISH/JAPANESE/USAMIX/USAUC)

SEL Options:  C (Create)  I (Info)  S (Member List)  A (Adv Function)
              M (Move/Copy/Export/Import)

SEL      ---- Source Listing Shared Directories/Databases/DDIO files ----
c (1)    ' #6001.STUDENT.DDIO '
(2)
(3)
(4)
(5)
(6)
(7)
(8)
    
```

7.4 DDIO File Type

-----CSS UTILITIES - Select Desired File Type -----CSS V8.7.0

COMMAND ==>

Commands: SETup DD (DDIO tutorial) SD (SD/DB tutorial) LP (LP tutorial)

File Name entered: '#6001.STUDENT.DDIO'

- | | | |
|---|------------------|--|
| 1 | Shared Directory | - Create a shared directory
NOTE: At least one database file must be attached to this shared directory for it to be functional. |
| 2 | Database File | - Create a Database that will be attached to an EXISTING shared directory. |
| 3 | DDIO File | - Create a non-database DDIO file. |

Enter END command to terminate

8 CREATE/FORMAT

--- COMPUWARE CSS UTILITIES - CREATE/FORMAT Source Listing File ---- V8.7.0

COMMAND ==>

Commands: SETup A (Advanced Parms) D (Delete file)
DD (DDIO tutorial) SD (SD/DB tutorial) LP (LP tutorial)

Dataset Name ==> '#6001.STUDENT.DDIO'

Preparation ==> FOREGROUND (Batch/Editjcl/Foreground)
DS Organization ==> VSAM (Vsam/Sequential)
Reallocate ==> NO (Yes/No)

Model DSN ==>
Storage Class ==> (optional, unless site requires)
Management Class ==> (optional, unless site requires)
Data Class ==> (optional, unless site requires)
Volume ==> (optional, unless site requires)
Unit ==> (optional, unless site requires)

Space Units ==> TRACKS (Blocks/Tracks/Cylinders)
Primary Quantity ==> 50
Number of Members ==> 50 (1 to 16000)

Press ENTER to process or enter END command to terminate

9 Setup the Environment

Enter the setup command:

```

Profile: DEFAULT ----- XPEDITER/TSO - STANDARD (2.1) -----
COMMAND ==>

COMMANDS:  Setup (Display Setup Menu)
           Profile (Display Profile List)
TEST SELECTION CRITERIA:

           Program ==> bomber
           Entry Point ==>
           Load Module ==>

           Initial Script ==>
           Post Script ==>

PARM ( Caps = YES ) ==>

File List/JCL Member ==> BOMBER.FAU
Preview Files? ==> NO
Code Coverage Test? ==> NO (YES, NO, TDO) System Flow? ==> NO
Is This a DB2 Test? ==> NO Plan ==> System ==>

Press ENTER to process or enter END command to terminate

```

9.1 SETUP MENU

Initially specify LOADLIBS and DDIOs:

```

Profile: DEFAULT ----- XPEDITER/TSO - SETUP MENU -----
OPTION ==>
 0 ENVIRONMENT - Execution environments menu
 1 LOADLIBS - Application load module libraries
 2 DDIO - DDIO files
 3 INCLUDES - Test script libraries
 4 LOG - Session log dataset disposition
 5 SCRIPT - Test script dataset disposition
 6 DSNLOAD - DB2 system names and DSNLOAD libraries

C CODE COVERAGE - Code Coverage setup options
D DOCUMENT - Document dataset disposition
E EXTENDED - Extended Setup Menu
A ALL - Display all of the above in succession (except 0)

Press ENTER to process or enter END command to terminate

```

9.2 Setup LOADLIB

Specify the LOADLIB containing the programs to test:

```
Profile: DEFAULT ----- XPEDITER/TSO - LOAD MODULE LIBRARIES -----
COMMAND ==>
COMMANDS:  DOWN (for additional User Libraries)

User Libraries:  --->>> Include ALL libraries your program requires <<<----
                (Even if the library is in LINKLST, ie. COBOL or LE runtime libraries)
                (1) ==> 'ENDV.TRAINING.ENDCLASS.DEVBLOAD'
                (2) ==>
                (3) ==>
                (4) ==>
                (5) ==>
                (6) ==>
                (7) ==>
                (8) ==>

Installation Libraries: (Changes made to this list override installed default
                (9) ==> 'CEE.SCEERUN'
                (10) ==>
                (11) ==>
                (12) ==>
                (13) ==>
                (14) ==>
                (15) ==>
                (16) ==>

                Press ENTER to Process or Enter END Command to Terminate
```

10 Setup DDIO Dataset

Specify the DDIO dataset containing the programs to test:

```
Profile: DEFAULT ----- XPEDITER/TSO - DDIO FILES -----
COMMAND ==>
```

User Libraries:

- (1) ==> '#6003.TRAINING.ENDCLASS.DEV.DDIO'
- (2) ==>
- (3) ==>
- (4) ==>
- (5) ==>
- (6) ==>

Installation Libraries: (Changes made here will override installed defaults)

- (7) ==>
- (8) ==>
- (9) ==>

Press ENTER to process or enter END command to terminate

10.1 PROGRAM PREPARATION MENU

```
----- XPEDITER/TSO - PROGRAM PREPARATION MENU -----
OPTION ==>
```

- 1 CONVERT COMPILE JCL - Convert compile JCL for XPEDITER
- 2 COMPILE FACILITY - Compile programs for XPEDITER
- 3 BIND FACILITY MENU - Bind application plans or packages
- 4 EDIT ALLOCATION LIST - Edit or Create file allocation lists

For the COMPILE FACILITY, you may use the Compile Profile field below as a method of selecting a specific profile that contains or will contain the desired compile parameters. If an existing name is entered, the compile parameters previously saved under that name will be used. If a new name is entered, a new profile will be created to hold the newly entered compile parameters. A '?' in the Compile Profile field will display a member list of existing names permitting profiles to be selected, displayed or maintained (i.e., COPY, RENAME, DELETE, etc.).

```
Compile Profile ==> DEFAULT DEFAULT COMPILE PROFILE
```

Press ENTER to process or enter END command to terminate

This screen will start the process of compiling a program using Xpediter built-in facilities. In the next several pages are the screen for compiling a program for testing under Xpediter.

11 COMPILE FACILITY

----- XPEDITER/TSO - COMPILE FACILITY -----

COMMAND ==>

Primary Commands: Listing (Display output) SETup (Display general settings)

Compile Profile: DEFAULT - DEFAULT COMPILE PROFILE

Source Dsname ==> STUDENT.COBOL(BOMBER)

Preparation ==> BATCH (Batch/Editjcl/Foreground)

Language ==> E-COBOL Select From The List Below

(E-COBOL/HLASM)

()

SEL Options: D - Display settings

S - Process only

SEL	STEPS	S - Select DB2 Precompile libraries	

_	1. DB2 Precompile	_ DBD1	_ DBV1
_	2. CICS Translation		
D	3. Compile		
D	4. Linkedit		

11.1 Compile Facility - General Settings

----- COMPILE FACILITY - GENERAL SETTINGS -----

COMMAND ==>

Listing ID ==> (Optional)

Batch Processing Items:

Sysout Class ==> Q

Monitor Status ==> N (Y/N)

Display Results ==> Y (Y/N)

Job Statement

==> //\$7101L JOB

==> /**

==> /**

==> /**

Press ENTER to update or enter END command to terminate

11.2 COMPILE STEP

----- LINKEDIT STEP -----

COMMAND ==>

Options ==>
==>

SYSLIB Datasets:

(1) ==>
(2) ==>
(3) ==>
(4) ==>
(5) ==>
(6) ==>
(7) ==>
(8) ==>

Object Library ==>

DDIO File ==> STUDENT.DDIO
LP Options DSN ==>

Press ENTER to update or enter END command to terminate

11.3 LINKEDIT STEP

----- LINKEDIT STEP -----

COMMAND ==>

Options ==>
==>

Load Library ==> STUDENT.LODLIB

SYSLIB Datasets:

(1) ==>
(2) ==>
(3) ==>
(4) ==>
(5) ==>
(6) ==>
(7) ==>
(8) ==>

SYSLIN Control Statements:

==>
==>

Press ENTER to update or enter END command to terminate

12 Profile - DEFAULT

Profile: DEFAULT ----- XPEDITER/TSO - STANDARD (2.1) -----
COMMAND ==>

COMMANDS: SEtup (Display Setup Menu)
PROFile (Display Profile List)

TEST SELECTION CRITERIA:

Program ==> bomber
Entry Point ==>
Load Module ==>

Initial Script ==>
Post Script ==>

PARM (Caps = YES) ==>

File List/JCL Member ==> BOMBER.FAU

Preview Files? ==> NO

Code Coverage Test? ==> NO (YES, NO, TDO) System Flow? ==> NO

Is This a DB2 Test? ==> NO Plan ==> System ==>

Press ENTER to process or enter END command to terminate