

XPEDITER/TSO — Batch Execution

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NOTE: The following examples apply to COBOL, PL/I, C and Assembler unless otherwise indicated.

Can I test one step in the middle of a jobstream, or must I test all the steps leading to that?

Using batch connect, you can test any number of steps in a jobstream without testing the preceding steps. However, all of the previous steps in the jobstream will be executed to ensure that the test is accurate.

Batch Connect is a facility that enables you to connect to a submitted batch job, see the source, and manipulate data as it executes interactively in its native environment. With Batch Connect's JCL scanner you can debug a single step or multiple steps.

What are the possible causes for an S106 abend?

An S106 abend is an uncorrectable I/O error occurred while placing a module in virtual storage for execution. There are a couple of possible causes:

- Region parameter specifies incorrect or insufficient quantity of virtual storage.
- During a transient area load or dynamic load resulting from a LINK, LOAD, XCTL, or ATTACH macro instruction, the fetch routine found an error.

To fix this abend, determine how much memory is left in the region using the SHOW REGION command. If you do not have enough memory, you can either execute your program using batch connect, or you can increase your TSO address space.

If I get space errors in TSO, should I try the program again in batch?

If you encounter space issues while debugging your program interactively under XPEDITER/TSO, you can do either one of the following:

1. Debug your program interactively under batch by selecting option 3 from the XPEDITER/TSO primary menu, provided the batch connect facility has been installed at your site, or;
2. Increase the size of your TSO region and rerun your test interactively under TSO by selecting option 2 from the XPEDITER/TSO primary menu, provided you have the authority to increase the amount of TSO region allocated to you.

Can I use TSO or batch to test programs using tapes for input and/or output?

When you are using tapes for input and/or output, you will need to test your programs using batch connect, which is option 3 from the XPEDITER/TSO primary menu.

How can I use batch connect to test in interactive or unattended mode?

1. Select option 3 for batch connect testing.

```

----- XPEDITER/TSO 6.5 - PRIMARY MENU -----
OPTION  ==> 3

      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  CICS         - Connect to a CICS region
      5  UTILITIES    - Perform utility functions
      F  FADB2        - Invoke File-AID for DB2
      C  CODE COVERAGE - Code Coverage Reports and Utilities
      B  BULLETIN     - Display summary of changes for this release
      T  TUTORIAL     - Display information about XPEDITER/TSO
      X  EXIT         - Exit primary menu

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

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                COMPUWARE XPEDITER PRODUCTION (6.5)

Press ENTER to process or enter END command to terminate

```

Figure 1: Primary Menu

2. Specify the JCL to execute the program you want to debug.

```

----- XPEDITER/TSO - PROCESS EXECUTE JCL -----
COMMAND ==> [ENTER]

Primary Commands:  blank (Process JCL)  Browse  Edit  Setup  Status

ISPF Library:
Project ==>
Group   ==>           ==>           ==>           ==>
Type   ==>
Member ==>           (Blank for member selection list)

Other Partitioned or Sequential Dataset:
Dataset Name ==> 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
Volume Serial ==>           (If not cataloged)

Compuware Product Options:
Command Center Results Interface User ID ==>

Press ENTER to process or enter END command to terminate

```

Figure 2: Process Execute JCL Screen

3. Fill in the jobcard and press Enter to process.

```

----- XPEDITER/TSO - JOB CARD FOR SUBMIT PROC EXPANSION -----
COMMAND ==> [ENTER]

The JOB CARD below is used by the SUBMIT PROC expansion process.
Its purpose is to extract information from PROCs such as DD names and
to resolve symbolic substitution. MSGCLASS, MSGLEVEL, TYPRUN, and NOTIFY
are reserved for XPEDITER use and will be ignored if specified below.

The following utilities make use of this information:
- CONVERT COMPILE JCL
- EDIT ALLOCATION LIST (File Allocation Utility)
- BATCH CONNECT

JOB CARD INFORMATION:
-----*-----1-----*-----2-----*-----3-----*-----4-----*-----5-----*-----6-----*-----7--
==> //USERIDX JOB (ACCOUNT), 'NAME', CLASS=A, MSGCLASS=X
==> /*
==> /*
==> /*

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

Figure 3: Batch Job Card

```

----- XPEDITER/TSO - SELECT JOB STEP ----- ROW 1 OF 4
COMMAND ==> SCROLL ==> PAGE

Line Commands:           Primary Commands:
I - Interactive testing   Edit - Display converted selected steps
U - Unattended testing   END - Exit without processing
IC - Interactive Code Coverage RUN - Submit and connect
UC - Unattended Code Coverage SETup - Setup work datasets
                           SUBmit - Convert selected steps and submit
                           SStatus - Display status of submitted job(s)

blank - Reset I/U/C

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'

PROGRAM   INITSCR   STEPNAME   PROCNAME   PROCSTEP   EXEC PGM
-----
- CWXTCOB   _____   RUN01     CWXTPROC   STEP01
- IEBGENER  _____   RUN01     CWXTPROC   STEP02
- CWXTCOB   _____   RUN02     CWXTPROC   STEP01
- IEBGENER  _____   RUN02     CWXTPROC   STEP02
***** BOTTOM OF DATA *****
    
```

Figure 4: Select Job Step Screen

4. Select the steps for interactive and unattended testing.

```

----- XPEDITER/TSO - SELECT JOB STEP ----- Row 1 of 4
COMMAND ==> [ENTER]                               SCROLL ==> PAGE

Line Commands:                                     Primary Commands:
 I - Interactive testing                           Edit - Display converted selected steps
 U - Unattended testing                           END - Exit without processing
 IC - Interactive Code Coverage                   RUN - Submit and connect
 UC - Unattended Code Coverage                   SETup - Setup work datasets
 blank - Reset I/U/C                             SUBmit - Convert selected steps and submit
                                                SStatus - Display status of submitted job(s)

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
```

	PROGRAM	INITSCR	STEPNAME	PROCNAME	PROCSTEP	EXEC PGM
i_	CWXTCOB	_____	RUN01	CWXTPROC	STEP01	
__	IEBGENER	_____	RUN01	CWXTPROC	STEP02	
u_	CWXTCOB	cwxtcob_	RUN02	CWXTPROC	STEP01	
__	IEBGENER	_____	RUN02	CWXTPROC	STEP02	

```

***** Bottom of data *****
```

Figure 5: Select Steps

```

----- XPEDITER/TSO - SELECT JOB STEP ----- Row 1 of 4
COMMAND ==>                                         SCROLL ==> PAGE

Line Commands:                                     Primary Commands:
 I - Interactive testing                           Edit - Display converted selected steps
 U - Unattended testing                           END - Exit without processing
 IC - Interactive Code Coverage                   RUN - Submit and connect
 UC - Unattended Code Coverage                   SETup - Setup work datasets
 blank - Reset I/U/C                             SUBmit - Convert selected steps and submit
                                                SStatus - Display status of submitted job(s)

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
```

	PROGRAM	INITSCR	STEPNAME	PROCNAME	PROCSTEP	EXEC PGM
I	CWXTCOB	_____	RUN01	CWXTPROC	STEP01	XPTSO
__	IEBGENER	_____	RUN01	CWXTPROC	STEP02	
U	CWXTCOB	CWXTCOB	RUN02	CWXTPROC	STEP01	XPBATCH
__	IEBGENER	_____	RUN02	CWXTPROC	STEP02	

```

***** Bottom of data *****
```

Figure 6: Results of Step Selection

NOTE: The DDIO and INCLUDE files have already been defined to the setup. The script you are pointing to in the unattended batch job (CWXTCOB, in this example) is something that you would have needed to create.

5. Submit the job.

```

----- XPEDITER/TSO - SELECT JOB STEP ----- Row 1 of 4
COMMAND ==> sub                                SCROLL ==> PAGE

Line Commands:                                Primary Commands:
 I - Interactive testing                       Edit - Display converted selected steps
 U - Unattended testing                       END - Exit without processing
 IC - Interactive Code Coverage               RUN - Submit and connect
 UC - Unattended Code Coverage              SETup - Setup work datasets
                                           SUBmit - Convert selected steps and submit
 blank - Reset I/U/C                        SStatus - Display status of submitted job(s)

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
```

	PROGRAM	INITSCR	STEPNAME	PROCNAME	PROCSTEP	EXEC PGM
I	CWXTCOB	_____	RUN01	CWXTPROC	STEP01	XPTSO
___	IEBGENER	_____	RUN01	CWXTPROC	STEP02	
U	CWXTCOB	CWXTCOB	RUN02	CWXTPROC	STEP01	XPBATCH
___	IEBGENER	_____	RUN02	CWXTPROC	STEP02	

```

***** Bottom of data *****

```

Figure 7: Submit the Job

```

----- XPEDITER/TSO - SELECT JOB STEP ----- Row 1 of 4
COMMAND ==> sub                                SCROLL ==> PAGE

Line Commands:                                Primary Commands:
 I - Interactive testing                       Edit - Display converted selected steps
 U - Unattended testing                       END - Exit without processing
 IC - Interactive Code Coverage               RUN - Submit and connect
 UC - Unattended Code Coverage              SETup - Setup work datasets
                                           SUBmit - Convert selected steps and submit
 blank - Reset I/U/C                        SStatus - Display status of submitted job(s)

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
```

	PROGRAM	INITSCR	STEPNAME	PROCNAME	PROCSTEP	EXEC PGM
I	CWXTCOB	_____	RUN01	CWXTPROC	STEP01	XPTSO
___	IEBGENER	_____	RUN01	CWXTPROC	STEP02	
U	CWXTCOB	CWXTCOB	RUN02	CWXTPROC	STEP01	XPBATCH
___	IEBGENER	_____	RUN02	CWXTPROC	STEP02	

```

***** Bottom of data *****
JOB USERIDX(JOB06095) SUBMITTED
***

```

Figure 8: Results of Submitting the Job

6. Check the job status.

```

----- XPEDITER/TSO - SELECT JOB STEP ----- JOB SUBMITTED
COMMAND ==> st                                SCROLL ==> PAGE

Line Commands:                                Primary Commands:
 I - Interactive testing                       Edit - Display converted selected steps
 U - Unattended testing                       END - Exit without processing
 IC - Interactive Code Coverage              RUN - Submit and connect
 UC - Unattended Code Coverage              SETup - Setup work datasets
                                           SUBmit - Convert selected steps and submit
                                           SStatus - Display status of submitted job(s)

blank - Reset I/U/C

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
```

	PROGRAM	INITSCR	STEPNAME	PROCNAME	PROCSTEP	EXEC PGM
I	CWXTCOB	_____	RUN01	CWXTPROC	STEP01	XPTSO
___	IEBGENER	_____	RUN01	CWXTPROC	STEP02	
U	CWXTCOB	CWXTCOB	RUN02	CWXTPROC	STEP01	XPBATCH
___	IEBGENER	_____	RUN02	CWXTPROC	STEP02	

```

***** Bottom of data *****
```

Figure 9: Display Job Status

7. View the job status waiting for connection.

```

+XPD0011 VTAM NODE: A01CS000 USER: USERID JOBNAME: USERIDX
+XPD0012 JOBNUMBER: JOB06095 STEP: RUN01 PROCSTEP: STEP01
+XPD0013 IS WAITING FOR CONNECTION ON SYSTEM CW01.
***
```

Figure 10: Job Notification

8. Connect to the batch job using the attach command.

```

----- XPEDITER/TSO - STATUS ----- Row 1 of 1
COMMAND ==> [ENTER]                               SCROLL ==> PAGE

Line Commands: A (Attach)  B (Browse)  C (Cancel)
                  I (Info)   P (Purge)  R (Requeue)

      Jobname ==>                (Specific jobname, blank for TSO userid, or
                                  '*' for all jobs using batch connect)
Sort Sequence ==> JOBID          (JOBNAME/JOBID)

CMD JOBNAME  JOBID    STATUS  H CONNECT  MESSAGE
-----
a  USERIDX JOB06095 RUNNING N Ready
***** Bottom of data *****

```

Figure 11: Attach the Job

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                         SCROLL ==> CSR
                BEFORE BREAKPOINT ENCOUNTERED
                -----
000347  01 PARMINFO                                >  ..00003
        ** END **

----- Before CWXTCOB <>
====> B  PROCEDURE DIVISION USING PARMINFO.
000351  0000-MAINLINE.
000352      PERFORM 9000-OPEN.
000353      PERFORM 9100-CHECK-PARM.
000354      IF GOOD-PARM
000355          PERFORM 9200-INIT
000356          PERFORM 8000-READ-INPUT
000357          UNTIL RECORDS-READ = START-NUMBER
000358          OR END-OF-FILE
000359          PERFORM 1000-PROCESS-DATA
000360          UNTIL END-OF-FILE
000361          PERFORM 6000-PRINT-EMPLOYEE-REPORT
000362          MOVE 1 TO REGION-SUB
000363          IF END-OF-MONTH
000364          PERFORM 7000-PRINT-REGION-REPORT

```

Figure 12: Source Listing Screen

NOTE: When the source is displayed, all XPEDITER debugging commands are available.

9. Begin program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR
                BEFORE BREAKPOINT ENCOUNTERED
                -----
000347  01 PARMINFO                            >  .00003
        ** END **

----- Before CWXTCOB <>
====> B  PROCEDURE DIVISION USING PARMINFO.
000351  0000-MAINLINE.
000352      PERFORM 9000-OPEN.
000353      PERFORM 9100-CHECK-PARM.
000354      IF GOOD-PARM
000355          PERFORM 9200-INIT
000356          PERFORM 8000-READ-INPUT
000357              UNTIL RECORDS-READ = START-NUMBER
000358              OR END-OF-FILE
000359      PERFORM 1000-PROCESS-DATA
000360          UNTIL END-OF-FILE
000361      PERFORM 6000-PRINT-EMPLOYEE-REPORT
000362      MOVE 1 TO REGION-SUB
000363      IF END-OF-MONTH
000364      PERFORM 7000-PRINT-REGION-REPORT

```

Figure 13: GO Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                TEST COMPLETED
                ** END **

----- After CWXTCOB <>
000366      PERFORM 9900-CLOSE.
====> A  GOBACK.
000368  ***
000369  *** DIFFERENT PROCESSING OCCURS BASED ON EMPLOYEE TYPE.  THERE
000370  *** ARE 3 VALID EMPLOYEE TYPES.  IF A RECORD IS READ CONTAINING
000371  *** A RECORD TYPE OTHER THAN H, S OR M, AN ERROR MESSAGE IS
000372  *** WRITTEN AND PROCESSING CONTINUES.
000373  ***
000374      1000-PROCESS-DATA.
000375      IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY
000377      ELSE
000378          IF SALES
000379              PERFORM 3000-PROCESS-SALES
000380      ELSE

```

Figure 14: Results of GO Command

10. Resume execution of batch job.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR
                                           TEST COMPLETED
      ** END **

----- After CWXTCOB <> -----
000366      PERFORM 9900-CLOSE.
====>> A    GOBACK.
000368      ***
000369      *** DIFFERENT PROCESSING OCCURS BASED ON EMPLOYEE TYPE.  THERE
000370      *** ARE 3 VALID EMPLOYEE TYPES.  IF A RECORD IS READ CONTAINING
000371      *** A RECORD TYPE OTHER THAN H, S OR M, AN ERROR MESSAGE IS
000372      *** WRITTEN AND PROCESSING CONTINUES.
000373      ***
000374      1000-PROCESS-DATA.
000375      IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY
000377      ELSE
000378          IF SALES
000379              PERFORM 3000-PROCESS-SALES
000380      ELSE

```

Figure 15: Results of GO Command

11. Press Enter to view notification screen.

```

----- XPEDITER/TSO - STATUS ----- Row 1 of 1
COMMAND ==> [ENTER]                            SCROLL ==> PAGE

Line Commands: A (Attach)  B (Browse)  C (Cancel)
                  I (Info)    P (Purge)   R (Requeue)

      Jobname ==>                (Specific jobname, blank for TSO userid, or
      Sort Sequence ==> JOBID    '*' for all jobs using batch connect)
                                (JOBNAME/JOBID)

CMD JOBNAME  JOBID  STATUS  H CONNECT  MESSAGE
-----
-  USERIDX JOB06095 RUNNING N Ready  CONNECTION ENDED
***** Bottom of data *****

```

Figure 16: Status Screen

12. You will be notified when the next step has run.

```
10.49.04 JOB06095 $HASPI65 USERIDX ENDED AT CW01 MAXCC=00 - MAX COND CODE 0000
CN(INTERNAL)
***
```

Figure 17: Job Notification

```
----- XPEDITER/TSO - STATUS ----- Row 1 of 1
COMMAND ==> SCROLL ==> PAGE

Line Commands: A (Attach) B (Browse) C (Cancel)
                I (Info)   P (Purge)   R (Requeue)

      Jobname ==> (Specific jobname, blank for TSO userid, or
                  '*' for all jobs using batch connect)
Sort Sequence ==> JOBID (JOBNAME/JOBID)

CMD JOBNAME JOBID STATUS H CONNECT MESSAGE
-----
-  USERIDX JOB06095 OUTPUT N
***** Bottom of data *****
```

Figure 18: Job Status Screen

13. Browse the output of the batch job.

```

----- XPEDITER/TSO - STATUS ----- Row 1 of 1
COMMAND ==> [ENTER]                               SCROLL ==> PAGE

Line Commands: A (Attach)  B (Browse)  C (Cancel)
                  I (Info)   P (Purge)  R (Requeue)

      Jobname ==>                (Specific jobname, blank for TSO userid, or
                                  '*' for all jobs using batch connect)
Sort Sequence ==> JOBID          (JOBNAME/JOBID)

CMD JOBNAME  JOBID    STATUS  H CONNECT  MESSAGE
-----
b  USERIDX JOB06095 OUTPUT N
***** Bottom of data *****

```

Figure 19: Browse the Job

```

Menu Utilities Compilers Help
-----
BROWSE      USERID.SPF121.OUTLIST                Line 00000000 Col 001 080
Command ==>                               Scroll ==> CSR
***** Top of Data *****
1          J E S 2  J O B  L O G  --  S Y S T E M  C W 0 1  --  N O
0
10.42.58 JOB06095 ---- TUESDAY, 14 APRIL 1999 ----
10.42.58 JOB06095 IRR010I USERID USERID IS ASSIGNED TO THIS JOB.
10.43.00 JOB06095 ICH70001I USERID LAST ACCESS AT 10:33:09 ON TUESDAY, MAY 2
10.43.00 JOB06095 $HASP373 USERIDX STARTED - INIT 2 - CLASS A - SYS CW01
10.43.00 JOB06095 IEF403I USERIDX - STARTED - TIME=10.43.00
10.43.00 JOB06095 -                                     --TIMINGS (
10.43.00 JOB06095 -JOBNAME  STEPNAME PROCSTEP      RC  EXCP  CONN   TCB   SR
10.43.00 JOB06095 -USERIDX @COMPXT@              00    9    8     .00  .0
10.48.54 JOB06095 -USERIDX RUN01   STEP01         00   677  1333  .03   .0
10.48.54 JOB06095 -USERIDX RUN01   STEP02         00    46   43     .00  .0
10.49.02 JOB06095 -USERIDX RUN02   STEP01         00   721  1281  .03   .0
10.49.03 JOB06095 -USERIDX RUN02   STEP02         00    50   47     .00  .0
10.49.03 JOB06095 -USERIDX #COMPXT#              00    45   40     .00  .0
10.49.04 JOB06095 IEF404I USERIDX - ENDED - TIME=10.49.04
10.49.04 JOB06095 -USERIDX ENDED. NAME-
10.49.04 JOB06095 $HASP395 USERIDX ENDED
0----- JES2 JOB STATISTICS -----

```

Figure 20: Output of Batch Job

14. Find the first occurrence of REPORT.

```

Menu  Utilities  Compilers  Help
-----
BROWSE      USERID.SPF121.OUTLIST                Line 00000000 Col 001 080
Command ==> f report                               Scroll ==> CSR
***** Top of Data *****
1          J E S 2  J O B  L O G  --  S Y S T E M  C W 0 1  --  N O
0
10.42.58 JOB06095 ---- TUESDAY, 14 APRIL 1999 ----
10.42.58 JOB06095 IRR010I USERID USERID IS ASSIGNED TO THIS JOB.
10.43.00 JOB06095 ICH70001I USERID LAST ACCESS AT 10:33:09 ON TUESDAY, MAY 2
10.43.00 JOB06095 $HASP373 USERIDX STARTED - INIT 2 - CLASS A - SYS CW01
10.43.00 JOB06095 IEF403I USERIDX - STARTED - TIME=10.43.00
10.43.00 JOB06095 - --TIMINGS (
10.43.00 JOB06095 -JOBNAME STEPNAME PROCSTEP RC EXCP CONN TCB SR
10.43.00 JOB06095 -USERIDX @COMPXT@ 00 9 8 .00 .0
10.48.54 JOB06095 -USERIDX RUN01 STEP01 00 677 1333 .03 .0
10.48.54 JOB06095 -USERIDX RUN01 STEP02 00 46 43 .00 .0
10.49.02 JOB06095 -USERIDX RUN02 STEP01 00 721 1281 .03 .0
10.49.03 JOB06095 -USERIDX RUN02 STEP02 00 50 47 .00 .0
10.49.03 JOB06095 -USERIDX #COMPXT# 00 45 40 .00 .0
10.49.04 JOB06095 IEF404I USERIDX - ENDED - TIME=10.49.04
10.49.04 JOB06095 -USERIDX ENDED. NAME- TOTAL TCB CPU TI
10.49.04 JOB06095 $HASP395 USERIDX ENDED
0----- JES2 JOB STATISTICS -----
    
```

Figure 21: Scroll Down

```

Menu  Utilities  Compilers  Help
-----
BROWSE      USERID.SPF121.OUTLIST                CHARS 'REPORT' found
Command ==>                               Scroll ==> CSR
RUN DATE 04/14/99      EMPLOYEE COMPENSATION REPORT                PAGE 1

EMPLOYEE NAME  REGION TYPE  HIRE DATE  YRS OF SERVICE  SALARY  O/T  COMMISSION  TOTAL
JOHN SMITH     NORTH  H   10/15/81   17   1083.00  0.00    0.00    1083.00
ROY GARDNER    NORTH  S   12/31/92   06   750.00  0.00   3300.00  4050.00
DAN PEARSON    NORTH  S   07/20/89   09   850.00  0.00   1000.00  1850.00
MICHAEL DAYTON SOUTH  S   08/30/82   16   825.00  0.00   6000.00  6825.00
DENNIS WHITE   SOUTH  S   02/29/88   11  1050.00  0.00   1120.00  2170.00
VALERIE OLSEN  EAST   S   05/01/94   05   900.00  0.00   5600.00  6500.00
LAURA MARTIN  EAST   S   06/14/83   15  1225.00  0.00   6000.00  7225.00
MARCIA SULLIVAN EAST   H   04/05/93   06  1200.00  180.00  0.00   1380.00
JAMES MORRISON EAST   H   09/13/91   07  1017.50  0.00    0.00   1017.50
THOMAS LONG    WEST   H   03/31/87   12  1000.00  0.00    0.00   1000.00
DONNA BROWN    WEST   S   11/11/81   17  1000.00  0.00   3333.00  4333.00
SAMUEL ADDAMS  WEST   H   01/02/86   13  1100.00  82.50  0.00   1182.50
MARK JOHNSON   WEST   S   09/30/82   16   750.00  0.00   6000.00  6750.00
    
```

Figure 22: Employee Compensation Report

15. Find XPEDITER.

```

Menu Utilities Compilers Help
-----
BROWSE      USERID.SPF121.OUTLIST          CHARS 'REPORT' found
Command ==> f xpediter                    Scroll ==> CSR
RUN DATE 04/14/99      EMPLOYEE COMPENSATION REPORT          PAGE 1

EMPLOYEE NAME  REGION TYPE  HIRE DATE  YRS OF SERVICE  SALARY  O/T  COMMISSION  TOTAL
JOHN SMITH     NORTH  H   10/15/81   17   1083.00  0.00    0.00  1083.00
ROY GARDNER    NORTH  S   12/31/92   06   750.00  0.00   3300.00 4050.00
DAN PEARSON    NORTH  S   07/20/89   09   850.00  0.00   1000.00 1850.00
MICHAEL DAYTON SOUTH  S   08/30/82   16   825.00  0.00   6000.00 6825.00
DENNIS WHITE   SOUTH  S   02/29/88   11  1050.00  0.00   1120.00 2170.00
VALERIE OLSEN  EAST   S   05/01/94   05   900.00  0.00   5600.00 6500.00
LAURA MARTIN  EAST   S   06/14/83   15  1225.00  0.00   6000.00 7225.00
MARCIA SULLIVAN EAST   H   04/05/93   06  1200.00 180.00    0.00  1380.00
JAMES MORRISON EAST   H   09/13/91   07  1017.50  0.00    0.00  1017.50
THOMAS LONG    WEST   H   03/31/87   12  1000.00  0.00    0.00  1000.00
DONNA BROWN    WEST   S   11/11/81   17  1000.00  0.00   3333.00 4333.00
SAMUEL ADDAMS  WEST   H   01/02/86   13  1100.00  82.50    0.00  1182.50
MARK JOHNSON   WEST   S   09/30/82   16   750.00  0.00   6000.00 6750.00
    
```

Figure 23: Scroll Down

```

Menu Utilities Compilers Help
-----
BROWSE      USERID.SPF121.OUTLIST          CHARS 'XPEDITER' found
Command ==>                               Scroll ==> CSR
:                                               JOB: USERIDX      :
: XPEDITER/TSO RELEASE 06.05.00      CUSTOMER # 010000  STEP: STEP01     :
:                                               DATE: 04/14/1999 :
: COMPUWARE MIS PRODUCTION          TIME: 10.49.04   :
:                                               :
+-----+
XPED BATCH
TEST CWXTCOB
  INITSCR CWXTCOB
*** CWXTCOB FROM USERID.LOAD          LINK 02/25/99
  BEFORE CWXTCOB::CWXTCOB:
  AFTER CWXTCOB::CWXTCOB:
  BEFORE ALL PARA
  KEEP EMPLOYEE-WORK-AREA
  COUNT ALL STATE
PAUSE Before CWXTCOB
BEFORE BREAKPOINT ENCOUNTERED
----- CWXTCOB KEPT ITEMS --
    
```

This is the information contained in your script CWXTCOB.

Figure 24: Results of Scroll Down

16. Exit the output.

```

Menu  Utilities  Compilers  Help
-----
BROWSE  USERID.SPF121.OUTLIST          CHARS 'XPEDITER' found
Command ==> [PF3]                      Scroll ==> CSR
:                                         JOB: USERIDX      :
: XPEDITER/TSO RELEASE 06.05.00        CUSTOMER # 010000  STEP: STEP01     :
:                                         DATE: 04/14/1999  :
: COMPUWARE MIS PRODUCTION            TIME: 10.49.04    :
:                                         :
+-----+

XPED BATCH
TEST CWXTCOB
  INITSCR CWXTCOB
*** CWXTCOB FROM USERID.LOAD           LINK 02/25/99
BEFORE CWXTCOB::CWXTCOB:
AFTER  CWXTCOB::CWXTCOB:
BEFORE ALL PARA
KEEP EMPLOYEE-WORK-AREA
COUNT ALL STATE
PAUSE Before CWXTCOB
BEFORE BREAKPOINT ENCOUNTERED
----- CWXTCOB KEPT ITEMS --

```

Figure 25: EXIT Command

```

----- XPEDITER/TSO - STATUS ----- Row 1 of 1
COMMAND ==>                               SCROLL ==> PAGE

Line Commands: A (Attach) B (Browse) C (Cancel)
                I (Info)  P (Purge)  R (Requeue)

      Jobname ==>          (Specific jobname, blank for TSO userid, or
                          '*' for all jobs using batch connect)
Sort Sequence ==> JOBID   (JOBNAME/JOBID)

CMD JOBNAME  JOBID    STATUS  H CONNECT  MESSAGE
-----
_  USERIDX JOB06095 OUTPUT  N          BROWSED
***** Bottom of data *****

```

Figure 26: Status Screen

17. Return to Select Job Step Screen.

```

----- XPEDITER/TSO - STATUS ----- Row 1 of 1
COMMAND ===> [PF3]                               SCROLL ===> PAGE

Line Commands: A (Attach)  B (Browse)  C (Cancel)
                I (Info)    P (Purge)  R (Requeue)

        Jobname ===>                (Specific jobname, blank for TSO userid, or
        Sort Sequence ===> JOBID     '*' for all jobs using batch connect)
                                   (JOBNAME/JOBID)

CMD JOBNAME  JOBID    STATUS  H CONNECT  MESSAGE
-----
-  USERIDX  JOB06095  OUTPUT  N          BROWSED
***** Bottom of data *****
    
```

Figure 27: Status Screen

```

----- XPEDITER/TSO - SELECT JOB STEP ----- Row 1 of 4
COMMAND ===>                                       SCROLL ===> PAGE

Line Commands:
  I - Interactive testing
  U - Unattended testing
  IC - Interactive Code Coverage
  UC - Unattended Code Coverage
  blank - Reset I/U/C

Primary Commands:
  Edit - Display converted selected steps
  END - Exit without processing
  RUN - Submit and connect
  Setup - Setup work datasets
  SUBmit - Convert selected steps and submit
  SStatus - Display status of submitted job(s)

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC) '

-----
PROGRAM      INITSCR      STEPNAME      PROCNAME      PROCSTEP      EXEC PGM
-----
I  CWXTCOB      _____    RUN01         CWXTPROC      STEP01         XPTSO
-  IEBGENER      _____    RUN01         CWXTPROC      STEP02
U  CWXTCOB      CWXTCOB       RUN02         CWXTPROC      STEP01         XPBATCH
-  IEBGENER      _____    RUN02         CWXTPROC      STEP02
***** Bottom of data *****
    
```

Figure 28: Select Job Step Screen

18. End the batch connect test.

```

----- XPEDITER/TSO - SELECT JOB STEP ----- Row 1 of 4
COMMAND ==> [PF3]                               SCROLL ==> PAGE

Line Commands:                                Primary Commands:
 I - Interactive testing                       Edit - Display converted selected steps
 U - Unattended testing                       END - Exit without processing
 IC - Interactive Code Coverage               RUN - Submit and connect
 UC - Unattended Code Coverage               SETup - Setup work datasets
                                             SUBmit - Convert selected steps and submit
 blank - Reset I/U/C                         SStatus - Display status of submitted job(s)

Dataset: 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
```

	PROGRAM	INITSCR	STEPNAME	PROCNAME	PROCSTEP	EXEC PGM
I	CWXTCOB	_____	RUN01	CWXTPROC	STEP01	XPTSO
___	IEBGENER	_____	RUN01	CWXTPROC	STEP02	
U	CWXTCOB	CWXTCOB	RUN02	CWXTPROC	STEP01	XPBATCH
___	IEBGENER	_____	RUN02	CWXTPROC	STEP02	

```

***** Bottom of data *****

```

Figure 29: Return to Process Execute JCL Screen

```

----- XPEDITER/TSO - PROCESS EXECUTE JCL ----- Cancelled
COMMAND ==>

Primary Commands: blank (Process JCL)  Browse  Edit  SETup  SStatus

ISPF Library:
 Project ==>
 Group   ==>           ==>           ==>           ==>
 Type    ==>
 Member  ==>           (Blank for member selection list)

Other Partitioned or Sequential Dataset:
 Dataset Name ==> 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC) '
 Volume Serial ==>           (If not cataloged)

Press ENTER to process or enter END command to terminate

```

Figure 30: Process Execute JCL Screen

19. Return to the Primary menu.

```

----- XPEDITER/TSO - PROCESS EXECUTE JCL ----- Cancelled
COMMAND ==> [PF3]

Primary Commands:  blank (Process JCL)   Browse   Edit   SETup   SStatus

ISPF Library:
  Project ==>
  Group   ==>           ==>           ==>           ==>
  Type    ==>
  Member  ==>           (Blank for member selection list)

Other Partitioned or Sequential Dataset:
  Dataset Name ==> 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTPROC)'
  Volume Serial ==>           (If not cataloged)

Press ENTER to process or enter END command to terminate

```

Figure 31: Return to Primary Menu

```

----- XPEDITER/TSO 6.5 - 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  CICS          - Connect to a CICS region
    5  UTILITIES     - Perform utility functions
    F  FADB2         - Invoke File-AID for DB2
    B  BULLETIN     - Display summary of changes for this release
    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

```

Figure 32: Primary Menu