

# XPEDITER/TSO — Using Abend-AID

## General Questions

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## Functionality / Scenario Questions

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

## **What is the AA SNAP command?**

The AA snap report displays an Abend-AID Snapshot report that contains context-sensitive diagnostic and analysis information about an abend. You can also issue the command when there is no abend to get status information on your DB2, IMS, or IDMS database, provided the Abend-AID support for those databases is installed.

## **What might cause the AA SNAP command not to work?**

The most common reason that the AA SNAP command does not work is that the Abend-AID loadlib has not been entered on the Test Session Load Libraries screen of the setup.

## **Why is the AA Snap report different from the last time I reviewed it under XPEDITER/TSO using the AA SNAP command? (*COBOL only*)**

The AA snap report is dependent upon the release of Abend-AID you are running, not the version of XPEDITER/TSO. Therefore, it is likely that a new release of Abend-AID has been installed.

## How do I invoke Abend-AID when I am using XPEDITER/TSO?

### 1. Begin a new test of your program.

```

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

COMMANDS:  Setup (Display Setup Menu)

TEST SELECTION CRITERIA:

          Program ==> CWXTCOB
          Entry Point ==>
          Load Module ==>

Initial Script ==>
Post Script ==>

          PARM String ==>

File List/JCL Member ==> 'USERID.XPEDITER.V6R5M0.SAMPLIB(CWXTJCLC)'

Code Coverage Test? ==> NO
Is This a DB2 Test? ==> NO      Plan ==>                System ==>
Test with XPEDITER+ ==> NO      Qualified LU name ==>
          Press ENTER to process or enter END command to terminate

```

Figure 1: Test Standard Screen

### 2. Begin program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR

          BEFORE BREAKPOINT ENCOUNTERED
          -----
000347  01 PARMINFO                            > ..
          ** 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 2: GO Command

3. Display the Abend-AID snapshot report.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> aa snap                                SCROLL ==> CSR
      SOC7 ABEND ENCOUNTERED, USE "AA SNAP" COMMAND FOR ADDITIONAL INFORMATION
000128 05 EMP-WAGES                                > ?????????? INVALID PACKED
000169 10 WA-EMP-HOURS                             > 40          DECIMAL
000170 10 WA-EMP-RATE                               > ?????????? INVALID PACKED
      ** END **

-----
----- Abend at CWXTCOB:402 <>
000401      ELSE
=====>      COMPUTE EMP-WAGES = WA-EMP-HOURS * WA-EMP-RATE.
000403      COMPUTE EMP-COMPENSATION = EMP-WAGES + OT-AMOUNT.
000404      ADD EMP-COMPENSATION TO GRAND-TOTAL-EMP.
000405      CALL 'CWXTDATE' USING END-OF-MONTH-SW
000406                      YRS-OF-SERVICE
000407                      TODAYS-DATE
000408                      WA-EMP-HIRE-DATE.
000409      PERFORM 5000-STORE-EMPLOYEE-DETAIL.
000410      SET HOLD-IX UP BY 1.
000411      ***
000412      *** CALCULATE TYPE S (SALES) EMPLOYEE COMPENSATION. THE TOTAL
000413      *** SALES FOR THE EMPLOYEE IS PASSED TO THE CALLED PROGRAM WHICH
000414      *** CALCULATES COMMISSION. ONCE EMPLOYEE COMPENSATION IS
000415      *** RETURNED FROM CWXTSUBC, IT IS STORED IN A HOLD-TABLE. THE
    
```

Figure 3: AA SNAP Command

```

----- XPEDITER/TSO - BROWSE -----
COMMAND ==>                                SCROLL ==> CSR
PROGRAM: CWXTCOB      MODULE: CWXTCOB      COMP DATE: 02/25/99  COMP TIME: 09:47:36
----- Abend at CWXTCOB:402 ->
SYS99104.T162410.RA000.USERID.R0176835      dd ABENDAID line 000000
***** TOP OF DATA *****
1      A B E N D - A I D      A A S N A P      PAGE 1
OWEDNESDAY 14 APR 1999      H09.00.03.19980629-R09.00.03
*****
*      A b e n d - A I D      D i a g n o s t i c s      *
*      *
*      Copyright (C) 1976, 1998, Compuware Corporation.      *
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*      Copyright Laws Of The United States.      *
*      Licensed for use at: 010000      *
*      COMPUWARE MIS PRODUCTION      *
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*****

Model - 9672      OPSYS - MVS/SP 6.0.6      Job - USERID
                  CP FMID - HBB6606      Step - ATSOPROC
                  System - CW01      Time - 16.24.10
                  DFSMS/MVS - V1R4M0
                  JES2 - OS 2.5.0
    
```

Figure 4: Abend-AID Snapshot Report

## 4. Find the Diagnostic section.

```

----- XPEDITER/TSO - BROWSE -----
COMMAND ==> f diagnostic                                SCROLL ==> CSR
PROGRAM: CWXTCOB    MODULE: CWXTCOB    COMP DATE: 02/25/99  COMP TIME: 09:47:36
----- Abend at CWXTCOB:402 ->
SYS99104.T162410.RA000.USERID.R0176835                dd ABENDAID line 000000
***** TOP OF DATA *****
1              A B E N D - A I D      A A S N A P          PAGE 1
OWEDNESDAY 14 APR 1999                                H09.00.03.19980629-R09.00.03
*****
*              A b e n d - A I D    D i a g n o s t i c s      *
*                                                                 *
*      Copyright (C) 1976, 1998, Compuware Corporation.        *
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*****

Model - 9672          OPSYS      - MVS/SP 6.0.6      Job - USERID
                    CP FMID     - HBB6606          Step - ATSOPROC
                    System      - CW01              Time - 16.24.10
                    DFSMS/MVS   - V1R4M0
                    JES2        - OS 2.5.0

```

Figure 5: FIND Command

```

----- XPEDITER/TSO - BROWSE -----
COMMAND ==>                                           SCROLL ==> CSR
                                CHARS 'DIAGNOSTIC' FOUND
----- Abend at CWXTCOB:402 ->
SYS99104.T162410.RA000.USERID.R0176835                dd ABENDAID line 000022
*****
* Diagnostic Section *
*****

A Data Exception was caused by data referenced at displacement 332
from the start of BL cell 04. The field contains X'025C5B'. Refer to
the data division map in the program listing to locate the field name.

The field causing the exception is located in Working-Storage of
program CWXTCOB.

-----

A Data Exception is caused when a computational-3 field has
an invalid digit (not 0-9), or its last byte contains an invalid
sign (not F, C, or D).

```

Figure 6: Diagnostic Section

## 5. Return to the source listing screen.

```

----- XPEDITER/TSO - BROWSE -----
COMMAND ===> [PF3]                                SCROLL ===> CSR
                CHARS 'DIAGNOSTIC' FOUND
----- Abend at CWXTCOB:402 ->
SYS99104.T162410.RA000.USERID.R0176835          dd ABENDAID line 000022
                *****
                * Diagnostic Section *
                *****

A Data Exception was caused by data referenced at displacement 332
from the start of BL cell 04. The field contains X'025C5B'. Refer to
the data division map in the program listing to locate the field name.

The field causing the exception is located in Working-Storage of
program CWXTCOB.

-----

A Data Exception is caused when a computational-3 field has
an invalid digit (not 0-9), or its last byte contains an invalid
sign (not F, C, or D).

```

Figure 7: Return

## 6. Exit the session.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ===> exit                                SCROLL ===> CSR
PROGRAM: CWXTCOB  MODULE: CWXTCOB  COMP DATE: 02/25/99  COMP TIME: 09:47:36
000128  05 EMP-WAGES                > ??????????  INVALID PACKED
000169  10 WA-EMP-HOURS              > 40                DECIMAL
000170  10 WA-EMP-RATE              > ??????????  INVALID PACKED
                ** END **

----- Abend at CWXTCOB:402 <>
000401      ELSE
=====>      COMPUTE EMP-WAGES = WA-EMP-HOURS * WA-EMP-RATE.
000403      COMPUTE EMP-COMPENSATION = EMP-WAGES + OT-AMOUNT.
000404      ADD EMP-COMPENSATION TO GRAND-TOTAL-EMP.
000405      CALL 'CWXTDATE' USING END-OF-MONTH-SW
000406                      YRS-OF-SERVICE
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000408                      WA-EMP-HIRE-DATE.
000409      PERFORM 5000-STORE-EMPLOYEE-DETAIL.
000410      SET HOLD-IX UP BY 1.
000411      ***
000412      *** CALCULATE TYPE S (SALES) EMPLOYEE COMPENSATION. THE TOTAL
000413      *** SALES FOR THE EMPLOYEE IS PASSED TO THE CALLED PROGRAM WHICH
000414      *** CALCULATES COMMISSION. ONCE EMPLOYEE COMPENSATION IS
000415      *** RETURNED FROM CWXTSUBC, IT IS STORED IN A HOLD-TABLE. THE

```

Figure 8: EXIT