

# XPEDITER/TSO — Gaining Control Conditionally

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

**NOTE:** For more information on how to step through your program unconditionally using GO commands, see the Rapid Response section Stepping Through Program Execution.

## **Which XPEDITER/TSO commands can I use to gain control of my program based on some condition?**

You can use the commands WHEN, COUNT with MAX, and an inserted IF and PAUSE to gain control of your program. For an example of how to use the WHEN command, see 3. For an example of how to use the COUNT with MAX command, see *“How do I pause the execution of my program when I reach a certain limit?”* in the Counting Statements and Paragraphs Rapid Response section. For an example of how to use the inserted IF and PAUSE, see page 8.

## How do I use the WHEN command?

**WHEN** Stop execution when a program variable changes value or when a specified condition is true.

Primary Command: WHEN

Examples: WHEN WA-EMP-TYPE CHANGES  
 WHEN CALC-SALES NOT NUMERIC  
 WHEN REGION-ID (WA-EMP-REGION) = 'EAST '

### 1. Execute the program until EMPLOYEE-WORK-AREA changes.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> when employee-work-area;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
  
```

Figure 1: WHEN and GO Commands

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                               SCROLL ==> CSR
                WHEN EMPLOYEE-WORK-AREA CHANGES
                -----1-----2-----3
MORE->  01  EMPLOYEE-RECORD                >  03431H2GAIL LAWRENCE  123 NORT
                -----1-----2-----3
MORE->  01  EMPLOYEE-WORK-AREA              >  03431H2GAIL LAWRENCE  123 NORT
                **  END  **

----- After CWXTCOB:621<>
000620  8000-READ-INPUT.
====>  READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622      AT END
000623      MOVE 'Y' TO EOF-SW.
000624      ADD 1 TO RECORDS-READ.
000625      ***
000626      ***
000627  9000-OPEN.
000628      OPEN INPUT  EMPLOYEE-FILE.
000629      OPEN OUTPUT REPORT-FILE.
000630      ***
000631      ***  VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
  
```

Figure 2: Results of WHEN and GO Commands

## How can I determine the value of my variables when I stop after my conditions are met?

The WHEN command pauses whenever a specified condition is true or when a program variable changes value. XPEDITER/TSO stops after the instruction that meets the requirement of the WHEN command and automatically keeps the value of data items referenced by the current execution line whenever execution halts.

### 2. Set a breakpoint to stop when WA-EMP-TYPE = 'S' .

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> when wa-emp-type = 's'                                SCROLL ==> CSR
                WHEN EMPLOYEE-WORK-AREA CHANGES
                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD > 03431H2GAIL LAWRENCE 123 NORT
                -----1-----2-----3
MORE-> 01 EMPLOYEE-WORK-AREA > 03431H2GAIL LAWRENCE 123 NORT
      ** END **
----- After CWXTCOB:621<>
000616 8000-READ-INPUT.
====>> READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000618 AT END
000619 MOVE 'Y' TO EOF-SW.
000620 ADD 1 TO RECORDS-READ.
000621 ***
000622 ***
000623 9000-OPEN.
000624 OPEN INPUT EMPLOYEE-FILE.
000625 OPEN OUTPUT REPORT-FILE.
000626 ***
000627 *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
000628 ***
000629 9100-CHECK-PARM.
000630 IF PARM-LTH = 5

```

Figure 3: Conditional WHEN Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
PROGRAM: CWXTCOB  MODULE: CWXTCOB  COMP DATE: 02/25/99  COMP TIME: 09:47:36
                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD > 03431H2GAIL LAWRENCE 123 NORT
                -----1-----2-----3
MORE-> 01 EMPLOYEE-WORK-AREA > 03431H2GAIL LAWRENCE 123 NORT
      ** END **
----- After CWXTCOB:621<>
000616 8000-READ-INPUT.
====>> READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000618 AT END
000619 MOVE 'Y' TO EOF-SW.
000620 ADD 1 TO RECORDS-READ.
000621 ***
000622 ***
000623 9000-OPEN.
000624 OPEN INPUT EMPLOYEE-FILE.
000625 OPEN OUTPUT REPORT-FILE.
000626 ***
000627 *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
000628 ***
000629 9100-CHECK-PARM.
000630 IF PARM-LTH = 5

```

Figure 4: Results of Conditional WHEN Command

3. Retain WA-EMP-TYPE in the KEEP window by using the KEEP command and resume program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> keep wa-emp-type;go                SCROLL ==> CSR
PROGRAM: CWXTCOB    MODULE: CWXTCOB    COMP DATE: 02/25/99    COMP TIME: 09:47:36
-----+-----1-----+-----2-----+-----3
MORE-> 01 EMPLOYEE-RECORD                    > 03431H2GAIL LAWRENCE 123 NORT
-----+-----1-----+-----2-----+-----3
MORE-> 01 EMPLOYEE-WORK-AREA                  > 03431H2GAIL LAWRENCE 123 NORT
** END **
----- After CWXTCOB:621<>
000620 8000-READ-INPUT.
====>> READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622 AT END
000623 MOVE 'Y' TO EOF-SW.
000624 ADD 1 TO RECORDS-READ.
000625 ***
000626 ***
000627 9000-OPEN.
000628 OPEN INPUT EMPLOYEE-FILE.
000629 OPEN OUTPUT REPORT-FILE.
000630 ***
000631 *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
000632 ***
000633 9100-CHECK-PARM.
000634 IF PARM-LTH = 5
    
```

Figure 5: KEEP and GO Commands

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>
                WHEN WA-EMP-TYPE = 'S'
                -
000153 K 05 WA-EMP-TYPE                    > S
-----+-----1-----+-----2-----+-----3
MORE-> 01 EMPLOYEE-RECORD                    > 01431S5TED HESSMAN ONE COPL
-----+-----1-----+-----2-----+-----3
----- After CWXTCOB:621 <>
000620 8000-READ-INPUT.
====>> READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622 AT END
000623 MOVE 'Y' TO EOF-SW.
000624 ADD 1 TO RECORDS-READ.
000625 ***
000626 ***
000627 9000-OPEN.
000628 OPEN INPUT EMPLOYEE-FILE.
000629 OPEN OUTPUT REPORT-FILE.
000630 ***
000631 *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
000632 ***
000633 9100-CHECK-PARM.
000634 IF PARM-LTH = 5
    
```

Figure 6: Results of KEEP and GO Command

## How do I view the WHEN statements that are in effect?

**SHOW WHEN**            Display all WHEN commands currently in effect.

Primary Command:        SHOW WHEN, SH WHEN

### 4. Display all when commands.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> show when                                SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99  COMP TIME: 09:47:36
-
000153 K 05 WA-EMP-TYPE                               > S
-----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                             > 01431S5TED HESSMAN   ONE COPL
-----1-----2-----3
----- After CWXTCOB:621 <-
000620      8000-READ-INPUT.
====>>      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622                AT END
000623                MOVE 'Y' TO EOF-SW.
000624      ADD 1 TO RECORDS-READ.
000625      ***
000626      ***
000627      9000-OPEN.
000628      OPEN INPUT  EMPLOYEE-FILE.
000629      OPEN OUTPUT REPORT-FILE.
000630      ***
000631      ***  VALID PARMs ARE BLANK OR 5 DIGIT NUMBER
000632      ***
000633      9100-CHECK-PARM.
000634      IF PARM-LTH = 5

```

Figure 7: SHOW WHEN Command

### 5. Return to the source listing screen.

```

----- XPEDITER/TSO - SHOW -----
COMMAND ==> [PF3]                                SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99  COMP TIME: 09:47:36
----- After CWXTCOB:621 ->
***** TOP OF DATA *****
WHEN WA-EMP-TYPE = 'S'
WHEN EMPLOYEE-WORK-AREA CHANGES
***** BOTTOM OF DATA *****

```

Figure 8: Results of SHOW WHEN Command

## How do I use the DELETE WHEN command?

**DELETE WHEN** Remove all WHEN commands currently in effect.

Primary Command: DELETE WHEN, DEL WHEN, D WHEN  
*To remove individual WHEN conditions, use the DELETE command followed by the entire WHEN statement.*

Examples: DELETE WHEN WA-EMP-TYPE = 'S'

### 6. Delete all when breakpoints.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> delete when                                SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99  COMP TIME: 09:47:36
-
000153 K 05 WA-EMP-TYPE                                > S
-----+-----1-----+-----2-----+-----3
MORE-> 01 EMPLOYEE-RECORD                              > 01431S5TED HESSMAN   ONE COPL
-----+-----1-----+-----2-----+-----3
----- After CWXTCOB:621 <>
000620      8000-READ-INPUT.
====>>      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622                AT END
000623                MOVE 'Y' TO EOF-SW.
000624                ADD 1 TO RECORDS-READ.
000625                ***
000626                ***
000627      9000-OPEN.
000628                OPEN INPUT  EMPLOYEE-FILE.
000629                OPEN OUTPUT REPORT-FILE.
000630                ***
000631                *** VALID PARMs ARE BLANK OR 5 DIGIT NUMBER
000632                ***
000633      9100-CHECK-PARM.
000634                IF PARM-LTH = 5

```

Figure 9: DELETE WHEN Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                                DELETE COMMAND PROCESSED
-
000153 K 05 WA-EMP-TYPE                                > S
-----+-----1-----+-----2-----+-----3
MORE-> 01 EMPLOYEE-RECORD                              > 01431S5TED HESSMAN   ONE COPL
-----+-----1-----+-----2-----+-----3
----- After CWXTCOB:621 <>
000620      8000-READ-INPUT.
====>>      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622                AT END
000623                MOVE 'Y' TO EOF-SW.
000624                ADD 1 TO RECORDS-READ.
000625                ***
000626                ***
000627      9000-OPEN.
000628                OPEN INPUT  EMPLOYEE-FILE.
000629                OPEN OUTPUT REPORT-FILE.

```

Figure 10: Results of the DELETE WHEN Command

## How do I use the INSERT line command?

**PAUSE** Suspend execution when used within a block of inserted commands.

### 7. Insert 3 blank lines after the add statement.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                                DELETE COMMAND PROCESSED
                                -
000153 K 05 WA-EMP-TYPE                    > S
                                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                  > 04147S3LAURA MARTIN TWO ENDE
                                -----1-----2-----3
----- Before CWXTCOB:621 <>
000620      8000-READ-INPUT.
=====>      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622                AT END
000623                MOVE 'Y' TO EOF-SW.
i3 24          ADD 1 TO RECORDS-READ.
000625      ***
000626      ***
000627      9000-OPEN.
000628                OPEN INPUT  EMPLOYEE-FILE.
000629                OPEN OUTPUT REPORT-FILE.
000630      ***
000631      *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
000632      ***

```

Figure 11: Insert Command

### 8. Insert the commands to stop program execution if the value of WA-EMP-TYPE = 'S'.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
PROGRAM: CWXTCOB    MODULE: CWXTCOB    COMP DATE: 02/25/99    COMP TIME: 14:27:44
                                -
000153 K 05 WA-EMP-TYPE                    > S
                                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                  > 04147S3LAURA MARTIN TWO ENDE
                                -----1-----2-----3
----- Before CWXTCOB:621 <>
000620      8000-READ-INPUT.
=====>      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622                AT END
000623                MOVE 'Y' TO EOF-SW.
000624                ADD 1 TO RECORDS-READ.
''''''      if wa-emp-type = 's'
''''''                pause
''''''      end-if
000625      ***
000626      ***
000627      9000-OPEN.
000628                OPEN INPUT  EMPLOYEE-FILE.
000629                OPEN OUTPUT REPORT-FILE.
000629      ***
000630      *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER

```

Figure 12: PAUSE Command



## Which XPEDITER/TSO commands can be used with the INSERT command?

You **can** use the following XPEDITER/TSO commands within the INSERT command with **COBOL**:

ACCEPT	EXIT	KEEP	SHOW
AFTER	GOTO	MOVE	SKIP
BEFORE	IF/ELSE construct	PAUSE	TRACE
COUNT	IF/OR construct	PEEK	WHEN
DELETE	INCLUDE	SET	WS

You **cannot** use the following XPEDITER/TSO commands within the INSERT command with **COBOL**:

AASNAP	EXPLAIN	LOAD	SOURCE
ALLOC	FADB2	LOCATE	STATUS
AT	FIND	LOG	TEST
BROWSE	GEN	MEMORY	TSO
CONNECT	GO	MONITOR	UP
DLEFT	GO <i>n</i>	NOLINES	USE
DLI	GRPEGS	RESUME	WHEREIS
DOWN	HELP	RETEST	XCHANGE
DRIGHT	INSERT	REVERSE	XPED
END	INTERCEPT	RIGHT	
EXCLUDE	LEFT	RUN	

You **can** use the following XPEDITER/TSO commands within the INSERT command with **Assembler**:

AFTER	GOTO	MOVE	SKIP
BEFORE	IF/ELSE construct	PAUSE	TRACE
COUNT	IF/OR construct	PEEK	WHEN
DELETE	INCLUDE	SET	
EXIT	KEEP	SHOW	

You **cannot** use the following XPEDITER/TSO commands within the INSERT command with **Assembler**:

AASNAP	EXCLUDE	LEFT	STATUS
ALLOC	FADB2	LOAD	TEST
AT	FIND	LOCATE	TSO
BROWSE	GEN	LOG	UP
CONNECT	GO	MEMORY	USING
DLEFT	GO <i>n</i>	NOLINES	VERIFY
DLI	GRPEGS	RETEST	WHEREIS
DOWN	HELP	RIGHT	XCHANGE
DRIGHT	INSERT	RUN	XPED
END	INTERCEPT	SOURCE	

You **can** use the following XPEDITER/TSO commands within the INSERT command with **PL/I**:

AFTER	GOTO	PAUSE	SKIP
BEFORE	IF/ELSE construct	PEEK	TRACE
COUNT	INCLUDE	RETURN	WHEN
DELETE	KEEP	SET	
EXIT	MOVE	SHOW	

You **cannot** use the following XPEDITER/TSO commands within the INSERT command with **PL/I**:

AASNAP	EXCLUDE	LEFT	STATUS
ALLOC	EXPLAIN	LOAD	TEST
AT	FADB2	LOCATE	TSO
BROWSE	FIND	LOG	UP
CONNECT	GO	MEMORY	WHEREIS
DLEFT	GO <i>n</i>	NOLINES	XCHANGE
DLI	GRPEGS	RETEST	XPED
DOWN	HELP	RIGHT	
DRIGHT	INSERT	RUN	
END	INTERCEPT	SOURCE	

## Are there any restrictions when using the INSERT command?

There are some restrictions when using the INSERT command:

1. The I line command cannot be combined with other line commands.
2. You cannot insert lines after a statement containing only ELSE, AT END, scope terminators (END-IF, END-READ, END-PERFORM), after the IF portion of an IF . . . THEN statement, an internal procedure call, an internal function call, or where a breakpoint cannot be set. The reason for this is that XPEDITER/TSO internally generates an AFTER breakpoint on the statement where the I line command is entered and interpretively executes the inserted statements only if the internal AFTER breakpoint is reached. The inserted statements are associated with the code above them.
3. You can only insert at a line that has a statement number. No inserting is allowed at a line with dashes (-----).
4. Placing the I line command on branching verbs is not permitted. A message INSERT NOT PERMITTED FOLLOWING *verb* is issued when you attempt to do so. If you want to execute statements following the return from an actual performed paragraph, insert the statement after the last executable code in the out-of-line paragraph.

## Which XPEDITER/TSO commands can be included within a test script for PL/1 or C Language?

The following commands **can** be included within a test script for **PL/1** or **C Language**.

AA SNAP	DELETE	INCLUDE	PAUSE	SKIP
AFTER	EXCLUDE	INTERCEPT	PEEK	SOURCE
AT	EXIT	KEEP	RESET	TRACE
BEFORE	GO	LINE	RETURN	WHEN
BROWSE	GOTO	LOAD	SET	
COUNT	GPREGS	MOVE	SHOW	

**Note:** AA SNAP, AT, BROWSE, and EXCLUDE cannot be used in unattended batch.

The following commands **cannot** be included within a test script for **PL/1** or **C Language**.

ALLOC	DRIGHT	LOCATE	RUN	WHEREIS
BOTTOM	END	LOG	STATUS	XCHANGE
CONNECT	FADB2	MEMORY	TEST	XPED
DLEFT	FIND	NOLINES	TOP	
DLI	HELP	RETEST	TSO	
DOWN	LEFT	RIGHT	UP	

**Note:** TEST and XPED can be used in unattended batch.

## 9. Resume program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR
PROGRAM: CWXTCOB      MODULE: CWXTCOB      COMP DATE: 02/25/99  COMP TIME: 14:27:44
-
000153 K 05 WA-EMP-TYPE                        > S
-
MORE-> 01 EMPLOYEE-RECORD                      > 04147S3LAURA MARTIN TWO ENDE
-
----- Before CWXTCOB:621 <> -----
000620      8000-READ-INPUT.
=====>      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622              AT END
000623              MOVE 'Y' TO EOF-SW.
000624              ADD 1 TO RECORDS-READ.
' ' ' ' ' '      IF WA-EMP-TYPE = 'S'
' ' ' ' ' '      PAUSE
' ' ' ' ' '      END-IF
000625      ***
000626      ***
000627      9000-OPEN.
000628              OPEN INPUT  EMPLOYEE-FILE.
000629              OPEN OUTPUT REPORT-FILE.
000630      ***
000631      *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER

```

Figure 13: GO Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
-
PAUSE REQUESTED BY INSERTED COMMAND
-
000153 K 05 WA-EMP-TYPE                        > S
** END **
-
----- After CWXTCOB:624 <> -----
000620      8000-READ-INPUT.
000621      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622              AT END
000623              MOVE 'Y' TO EOF-SW.
000624      ADD 1 TO RECORDS-READ.
' ' ' ' ' '      IF WA-EMP-TYPE = 'S'
=====>      PAUSE
' ' ' ' ' '      END-IF
000625      ***
000626      ***
000627      9000-OPEN.
000628              OPEN INPUT  EMPLOYEE-FILE.
000629              OPEN OUTPUT REPORT-FILE.
000630      ***
000631      *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER

```

Figure 14: Results of PAUSE Command

## How do I resume execution of my program after it has stopped?

### 10. Continue to execute the program by using the GO 1 command.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go 1                                SCROLL ==> CSR
          PAUSE REQUESTED BY INSERTED COMMAND
          -
000153 K 05 WA-EMP-TYPE                          > S
          ** END **

----- After CWXTCOB:624 <> -----
000620      8000-READ-INPUT.
000621      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622      AT END
000623      MOVE 'Y' TO EOF-SW.
000624      ADD 1 TO RECORDS-READ.
          ' ' ' ' ' ' IF WA-EMP-TYPE = 'S'
=====>      PAUSE
          ' ' ' ' ' ' END-IF
000625      ***
000626      ***
000627      9000-OPEN.
000628      OPEN INPUT  EMPLOYEE-FILE.
000629      OPEN OUTPUT REPORT-FILE.
000630      ***
000631      *** VALID PARS ARE BLANK OR 5 DIGIT NUMBER

```

Figure 15: GO 1 Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                     SCROLL ==> CSR
PROGRAM: CWXTCOB      MODULE: CWXTCOB      COMP DATE: 02/25/99  COMP TIME: 09:47:36
          -
000153 K 05 WA-EMP-TYPE                          > S
          ** END **

----- Before CWXTCOB:620 <> -----
=====>      8000-READ-INPUT.
000621      READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622      AT END
000623      MOVE 'Y' TO EOF-SW.
000624      ADD 1 TO RECORDS-READ.
          ' ' ' ' ' ' IF WA-EMP-TYPE = 'S'
          ' ' ' ' ' ' PAUSE
          ' ' ' ' ' ' END-IF
000625      ***
000626      ***
000627      9000-OPEN.
000628      OPEN INPUT  EMPLOYEE-FILE.
000629      OPEN OUTPUT REPORT-FILE.
000630      ***
000631      *** VALID PARS ARE BLANK OR 5 DIGIT NUMBER

```

Figure 16: Results of GO 1 Command

## How do I use the DELETE line command?

### 11. Delete the inserted code.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> [ENTER]                                SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99  COMP TIME: 09:47:36
-
000153 K 05 WA-EMP-TYPE                               > S
      ** END **

----- Before CWXTCOB:620 <>
===== 8000-READ-INPUT.
000621     READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622     AT END
000623     MOVE 'Y' TO EOF-SW.
000624     ADD 1 TO RECORDS-READ.
dd''''     IF WA-EMP-TYPE = 'S'
''''''     PAUSE
dd''''     END-IF
000625     ***
000626     ***
000627     9000-OPEN.
000628     OPEN INPUT  EMPLOYEE-FILE.
000629     OPEN OUTPUT REPORT-FILE.
000630     ***
000631     *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER

```

Figure 17: DELETE Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                                DELETE COMMAND PROCESSED
-
000153 K 05 WA-EMP-TYPE                               > S
      ** END **

----- Before CWXTCOB:620 <>
===== 8000-READ-INPUT.
000621     READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA
000622     AT END
000623     MOVE 'Y' TO EOF-SW.
000624     ADD 1 TO RECORDS-READ.
000625     ***
000626     ***
000627     9000-OPEN.
000628     OPEN INPUT  EMPLOYEE-FILE.
000629     OPEN OUTPUT REPORT-FILE.
000630     ***
000631     *** VALID PARMS ARE BLANK OR 5 DIGIT NUMBER
000632     ***
000633     9100-CHECK-PARM.
000634     IF PARM-LTH = 5

```

Figure 18: Results of DELETE Command

## Are there any restrictions when using the DELETE command?

These are the restrictions when using the DELETE command:

1. When you remove all breakpoints (including the default breakpoints) and execute a program, XPEDITER/TSO displays the log and issues the message TEST COMPLETED.
2. When using the DELETE command, specify the module (external program), load module, or data location, when necessary. For instance, if you are in a program called TRIMAIN and want to delete a breakpoint on statement 24 in the separately compiled program TRITST, enter DELETE BEFORE TRITST:24.

