

XPEDITER/TSO — Counting Statements and Paragraphs

General Questions

Question	Page(s)
What is the COUNT command used for in XPEDITER/TSO?	2
What location in XPEDITER/TSO do I specify the COUNT command?	2
Where do I see the counter during the test session?	2
Can I see the count in my log?	2
How do I count paragraphs in a nested program?	2
How do I remove the counter?	2

Functionality / Scenario Questions

Question	Page(s)
How do I use the COUNT primary command?	3
How do I use the COUNT line command?	6
How do I use the SHOW COUNTS command?	8
How do I use the SHOW MODULES command?	10
How do I pause the execution of my program when I reach a certain limit?	12

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

What is the COUNT command used for in XPEDITER/TSO?

Use the COUNT command to monitor program execution and report on the number of times a specified statement or range of statements has been executed. You can also set a condition to pause execution when the execution reaches the specified limit.

What location in XPEDITER/TSO do I specify the COUNT command?

You can use the COUNT command where breakpoints can be set or deleted. Valid locations are statement numbers, paragraph names, ALL STATE, ALL PARA, ALL LABELS, ALL PROC, or ALL PROG. You can also specify a list separated by spaces or commas; to specify a range, use the THRU keyword (e.g. COUNT 613 THRU 620).

Where do I see the counter during the test session?

The count is indicated by a seven-digit counter starting in column 74 on the source listing screen. See page 4 for an example of the counter.

Can I see the count in my log?

Yes, but first you must enter the SHOW COUNTS command, which enters a record in the log of all counted lines for the module. Then use the LOG command to view the session log.

How do I count paragraphs in a nested program?

To count paragraphs in a nested program, use the command COUNT *[name of nested program]*:ALL PARA.

How do I remove the counter?

To remove the counter use the DELETE COUNT primary command or the DC line command.

How do I use the COUNT primary command?

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 ==> 00003

          File List/JCL Member ==> 'USERID.XPEDITER.V6R50M0.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

COUNT Count the number of times a statement or paragraph is executed.

Primary Command: COUNT, COU, C

Examples: C ALL STATE
 COU 8000-READ-INPUT

Line Command: C

2. Count the number of executions for each paragraph.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> count all para                                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 2: COUNT Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>
                1 COMMAND(S) COMPLETED                    SCROLL ==> CSR
                -----
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
    
```

0000000

↑

The counter is displayed.

Figure 3: Results of COUNT Command

3. Scroll down.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> [PF8]                                SCROLL ==> CSR
                1 COMMAND(S) COMPLETED
                -----
000347  01 PARMINFO                                >  ..00003
      ** END **

----- Before CWXTCOB <>
====> B  PROCEDURE DIVISION USING PARMINFO.
000351  0000-MAINLINE.                                0000000
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 4: Scroll Down Command

4. Place your cursor on line 374 and scroll down. To scroll a specific number of lines, you must have the scroll amount set to CSR.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> [PF8]                                SCROLL ==> CSR
PROGRAM: CWXTCOB  MODULE: CWXTCOB  COMP DATE: 02/25/99  COMP TIME: 09:47:36
                -----
000347  01 PARMINFO                                >  ..00003
      ** END **

----- Before CWXTCOB <>
000365      UNTIL REGION-SUB > 4.
000366      PERFORM 9900-CLOSE.
000367 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.                                0000000
000375      IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY
000377      ELSE
000378          IF SALES
000379          PERFORM 3000-PROCESS-SALES

```

Figure 5: Results of Scroll Down Command

How do I use the COUNT line command?

5. Put a count on statements 376, 379, 382, and 384.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> [ENTER]                                SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99   COMP TIME: 09:47:36
-----+-----
000347  01 PARMINFO                                >  ..00003
      ** END **

-----
----- Before CWXTCOB <>
000374  1000-PROCESS-DATA.                          0000000
000375      IF HOURLY
c 376      PERFORM 2000-PROCESS-HOURLY
000377      ELSE
000378      IF SALES
c 379      PERFORM 3000-PROCESS-SALES
000380      ELSE
000381      IF MANAGEMENT
c 382      PERFORM 4000-PROCESS-MANAGEMENT
000383      ELSE
c 384      MOVE ' INVALID EMPLOYEE TYPE ' TO ERROR-LINE
000385      WRITE REPORT-RECORD FROM ERROR-LINE.
000386      PERFORM 8000-READ-INPUT.
000387      ***
000388      *** CALCULATE TYPE H (HOURLY) EMPLOYEE COMPENSATION. ANY

```

Figure 6: COUNT Line Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                                4 COMMAND(S) COMPLETED
-----+-----
000347  01 PARMINFO                                >  ..00003
      ** END **

-----
----- Before CWXTCOB <>
000374  1000-PROCESS-DATA.                          0000000
000375      IF HOURLY
000376      PERFORM 2000-PROCESS-HOURLY              0000000
000377      ELSE
000378      IF SALES
000379      PERFORM 3000-PROCESS-SALES              0000000
000380      ELSE
000381      IF MANAGEMENT
000382      PERFORM 4000-PROCESS-MANAGEMENT          0000000
000383      ELSE
000384      MOVE ' INVALID EMPLOYEE TYPE ' TO ERROR-LINE 0000000
000385      WRITE REPORT-RECORD FROM ERROR-LINE.
000386      PERFORM 8000-READ-INPUT.
000387      ***
000388      *** CALCULATE TYPE H (HOURLY) EMPLOYEE COMPENSATION. ANY

```

Figure 7: Results of COUNT Command

6. Begin program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR
                                           4 COMMAND(S) COMPLETED
                                           -----+--
000347  01 PARMINFO                            >  .00003
      ** END **

----- Before CWXTCOB <>
000374  1000-PROCESS-DATA.                      0000000
000375      IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY      0000000
000377      ELSE
000378          IF SALES
000379              PERFORM 3000-PROCESS-SALES    0000000
000380      ELSE
000381          IF MANAGEMENT
000382              PERFORM 4000-PROCESS-MANAGEMENT 0000000
000383      ELSE
000384          MOVE ' INVALID EMPLOYEE TYPE ' TO ERROR-LINE 0000000
000385          WRITE REPORT-RECORD FROM ERROR-LINE.
000386      PERFORM 8000-READ-INPUT.
000387      ***
000388      *** CALCULATE TYPE H (HOURLY) EMPLOYEE COMPENSATION. ANY

```

Figure 8: 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.                      0000017
000375      IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY      0000005
000377      ELSE
000378          IF SALES
000379              PERFORM 3000-PROCESS-SALES    0000008
000380      ELSE

```

Figure 9: Results of GO Command

How do I use the SHOW COUNTS command?

SHOW COUNTS Display all statements that have an execution counter.

Primary Command: SHOW COUNTS, SH COU

7. Display all counters.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> show counts                                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.                                0000017
000375          IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY                    0000005
000377          ELSE
000378          IF SALES
000379          PERFORM 3000-PROCESS-SALES                      0000008
000380          ELSE
    
```

Figure 10: SHOW COUNTS Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
          SPECIFIED STATEMENTS ARE SHOWN - RESTORE SOURCE WITH 'END'
          ** END **

----- After CWXTCOB <>
***** TOP OF MODULE *****
- - - - - 350 LINES NOT DISPLAYED
000351  0000-MAINLINE.                                0000001
- - - - - 22 LINES NOT DISPLAYED
000374  1000-PROCESS-DATA.                            0000017
- - - - - 1 LINE NOT DISPLAYED
000376          PERFORM 2000-PROCESS-HOURLY            0000005
- - - - - 2 LINES NOT DISPLAYED
000379          PERFORM 3000-PROCESS-SALES              0000008
- - - - - 2 LINES NOT DISPLAYED
000382          PERFORM 4000-PROCESS-MANAGEMENT        0000004
- - - - - 1 LINE NOT DISPLAYED
000384          MOVE ' INVALID EMPLOYEE TYPE ' to ERROR-LINE 0000000
- - - - - 10 LINES NOT DISPLAYED
000395  2000-PROCESS-HOURLY.                          0000005
    
```

Figure 11: Results of SHOW COUNTS Command

8. Reset excluded lines.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> [PF3]                                SCROLL ==> CSR
          SPECIFIED STATEMENTS ARE SHOWN - RESTORE SOURCE WITH 'END'
          ** END **

----- After CWXTCOB <>
***** TOP OF MODULE *****
----- 350 LINES NOT DISPLAYED
000351  0000-MAINLINE.                            0000001
----- 22 LINES NOT DISPLAYED
000374  1000-PROCESS-DATA.                        0000017
----- 1 LINE NOT DISPLAYED
000376          PERFORM 2000-PROCESS-HOURLY        0000005
----- 2 LINES NOT DISPLAYED
000379          PERFORM 3000-PROCESS-SALES         0000008
----- 2 LINES NOT DISPLAYED
000382          PERFORM 4000-PROCESS-MANAGEMENT    0000004
----- 1 LINE NOT DISPLAYED
000384          MOVE ' INVALID EMPLOYEE TYPE ' to ERROR-LINE 0000000
----- 10 LINES NOT DISPLAYED
000395  2000-PROCESS-HOURLY.                      0000005

```

Figure 12: END Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
PROGRAM: CWXTCOB    MODULE: CWXTCOB    COMP DATE: 02/25/99    COMP TIME: 09:47:36
          ** 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.                            0000017
000375          IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY          0000005
000377          ELSE
000378          IF SALES
000379          PERFORM 3000-PROCESS-SALES          0000008
000380          ELSE

```

Figure 13: Source Listing Screen

How do I use the SHOW MODULES command?

SHOW MODULES Display a list of application modules loaded and the number of times each module was executed.

Primary Command: SHOW MODULES, SH MOD, SH M

9. Display the number of times each module was executed.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> show modules                                SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99  COMP TIME: 09:47:36
      ** 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.                                0000017
000375          IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY                    0000005
000377          ELSE
000378          IF SALES
000379          PERFORM 3000-PROCESS-SALES                      0000008
000380          ELSE

```

Figure 14: SHOW MODULES Command

```

----- XPEDITER/TSO - SHOW -----
COMMAND ==>
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99  COMP TIME: 09:47:36
----- After CWXTCOB -> -----
***** TOP OF DATA *****

MODULE CWXTCOB  START 000DF540 SIZE 00007AC0 ENTRY 000DF540      REUS
                LOADED FROM USERID.LOAD
                DATE OF LINK EDIT 02/25/99  AMODE 24  RMODE 24

      CSECT CWXTCOB  START 000DF540 SIZE 0000393A USE 00001  SOURCE PRESENT
                SOURCE LANGUAGE OF PROGRAM IS OS/VIS COBOL
                DATE OF COMPILE IS 022599 AT 094736
                DATE OF LISTING IS 022599 AT 094736
                LISTING IS FROM USERID.XT65.DDIO

      CSECT CWXTDATE START 000E4160 SIZE 000006FA USE 00014  NO SOURCE CALL
                SOURCE LANGUAGE OF PROGRAM IS OS/VIS COBOL
                DATE OF COMPILE IS 022599 AT 094719

      CSECT CWXTSUBC START 000E2E80 SIZE 000007E2 USE 00008  NO SOURCE CALL
                SOURCE LANGUAGE OF PROGRAM IS OS/VIS COBOL
                DATE OF COMPILE IS 022599 AT 094700

```

Figure 15: Results of SHOW MODULES Command

10. 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 ->
***** TOP OF DATA *****

MODULE CWXTCOB  START 000DF540 SIZE 00007AC0 ENTRY 000DF540      REUS
                LOADED FROM USERID.LOAD
                DATE OF LINK EDIT 02/25/99  AMODE 24  RMODE 24

CSECT CWXTCOB  START 000DF540 SIZE 0000393A USE 00001  SOURCE PRESENT
                SOURCE LANGUAGE OF PROGRAM IS OS/VIS COBOL
                DATE OF COMPILE IS 022599 AT 094736
                DATE OF LISTING IS 022599 AT 094736
                LISTING IS FROM USERID.XT65.DDIO

CSECT CWXTDATE START 000E4160 SIZE 000006FA USE 00014  NO SOURCE CALL
                SOURCE LANGUAGE OF PROGRAM IS OS/VIS COBOL
                DATE OF COMPILE IS 022599 AT 094719

CSECT CWXTSUBC START 000E2E80 SIZE 000007E2 USE 00008  NO SOURCE CALL
                SOURCE LANGUAGE OF PROGRAM IS OS/VIS COBOL
                DATE OF COMPILE IS 022599 AT 094700

```

Figure 16: Return**11. Exit the session.**

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ===> exit                                SCROLL ===> CSR
PROGRAM: CWXTCOB      MODULE: CWXTCOB    COMP DATE: 02/25/99  COMP TIME: 09:47:36
** 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.                                0000017
000375          IF HOURLY
000376          PERFORM 2000-PROCESS-HOURLY                        0000005
000377          ELSE
000378          IF SALES
000379          PERFORM 3000-PROCESS-SALES                          0000008
000380          ELSE

```

Figure 17: EXIT

How do I pause the execution of my program when the count reaches a certain limit?

This example shows you how to gain control after a specified number of records have been read.

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 ==> 00003

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. Locate line 621.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> locate 621                                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 2: LOCATE Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>>                                         SCROLL ==> CSR
PROGRAM: CWXTCOB   MODULE: CWXTCOB   COMP DATE: 02/25/99   COMP TIME: 09:47:36
                -----+-----
000347  01 PARMINFO                                    > ..00003
                ** END **

----- Before CWXTCOB <> -----
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
000635      IF PARM-DATA IS NUMERIC

```

Figure 3: Results of LOCATE Command

COUNT [MAX] Set a limit on the number of times a statement or paragraph is executed.

Primary Command: COUNT, COU, C

Examples: COUNT STATE MAX 10
C PARA MAX 5

3. Read 5 additional employee records on line 621 and stop before the 6th record is read.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> count 621 max 5                                SCROLL ==> CSR
PROGRAM: CWXTCOB    MODULE: CWXTCOB    COMP DATE: 02/25/99  COMP TIME: 09:47:36
-----+-----
000347  01 PARMINFO                                > ..00003
      ** END **

----- Before CWXTCOB <> -----
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
000635      IF PARM-DATA IS NUMERIC
    
```

Figure 4: COUNT Command with MAX

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>
                                1 COMMAND(S) COMPLETED
                                -----+-----
000347  01 PARMINFO                                > ..00003
      ** END **

----- Before CWXTCOB <> -----
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
000635      IF PARM-DATA IS NUMERIC
    
```

0000000

The Count is now displayed.

Figure 5: Results of COUNT Command with MAX

4. Resume program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR
                                1 COMMAND(S) COMPLETED
                                -
000153 K 05 WA-EMP-TYPE                       > S
                                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                     > 01431S5TED HESSMAN ONE COPL
                                -----1-----2-----3
----- After CWXTCOB:621 <-----
===== > READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA 0000000
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
000635 IF PARM-DATA IS NUMERIC

```

Figure 6: GO Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                                SPECIFIED EXECUTION MAX HAS BEEN REACHED
                                -
000153 K 05 WA-EMP-TYPE                       > S
                                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                     > 04147S3LAURA MARTIN TWO ENDE
                                -----1-----2-----3
----- Before CWXTCOB:621 <-----
===== > READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA 0000005
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
000635 IF PARM-DATA IS NUMERIC

```

Figure 7: Results of GO Command

5. Resume program execution.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> go                                SCROLL ==> CSR
                SPECIFIED EXECUTION MAX HAS BEEN REACHED
-
000153 K 05 WA-EMP-TYPE                        > S
                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                      > 04147S3LAURA MARTIN TWO ENDE
                -----1-----2-----3
----- Before CWXTCOB:621 <>
===== READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA 0000005
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
000635 IF PARM-DATA IS NUMERIC
    
```

Figure 8: GO Command

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==>                                SCROLL ==> CSR
                CANNOT EXCEED SPECIFIED EXECUTION MAX
-
000153 K 05 WA-EMP-TYPE                        > S
                -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                      > 04147S3LAURA MARTIN TWO ENDE
                -----1-----2-----3
----- Before CWXTCOB:621 <>
===== READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA 0000005
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
000635 IF PARM-DATA IS NUMERIC
    
```

The program will not continue to execute because doing so will cause the statement count to exceed the maximum set.

Figure 9: Results of GO Command

6. Reset the count max by overtyping the counter.

```

----- XPEDITER/TSO - SOURCE -----
COMMAND ==> [ENTER]                                SCROLL ==> CSR
          CANNOT EXCEED SPECIFIED EXECUTION MAX
          -
000153 K 05 WA-EMP-TYPE                             > S
          -----1-----2-----3
MORE-> 01 EMPLOYEE-RECORD                           > 04147S3LAURA MARTIN TWO ENDE
          -----1-----2-----3
          ----- Before CWXTCOB:621 <>
===== READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA 0000000
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
000635 IF PARM-DATA IS NUMERIC
    
```

Overtyping the counter.

Figure 10: Reset COUNT MAX

```

----- 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 <>
===== READ EMPLOYEE-FILE INTO EMPLOYEE-WORK-AREA 0000005
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
000635 IF PARM-DATA IS NUMERIC
    
```

The max was reset, but the counter is maintained.

Figure 11: Results of Resetting the COUNT MAX

