AT END OF PAGE

Structured Mode Syntax

[AT] END [OF] PAGE [(rep)]

statement

END-ENDPAGE

Reporting Mode Syntax

```
[AT] END [OF] PAGE [(rep)]

{ statement

DO statement ... DOEND
```

This chapter covers the following topics:

- Function
- Syntax Description
- Example

For an explanation of the symbols used in the syntax diagram, see Syntax Symbols.

Related Statements: AT TOP OF PAGE | CLOSE PRINTER | DEFINE PRINTER | DISPLAY | EJECT | FORMAT | NEWPAGE | PRINT | SKIP | SUSPEND IDENTICAL SUPPRESS | WRITE | WRITE TITLE | WRITE TRAILER

Belongs to Function Group: Creation of Output Reports

Function

The AT END OF PAGE statement is used to specify processing that is to be performed when an end-of-page condition is detected (see the session parameter PS in the *Parameter Reference*). An end-of-page condition may also occur as a result of a SKIP or NEWPAGE statement, but not as a result of an EJECT or INPUT statement.

See also the following sections in the *Programming Guide*:

- Controlling Data Output
- Report Specification (rep) Notation
- Layout of an Output Page

• AT END OF PAGE Statement

Processing

An AT END OF PAGE statement block is only executed if the object which contains the statement block is active at the time when the end-of-page condition occurs.

An AT END OF PAGE statement must not be placed within an inline subroutine.

This statement is non-procedural, that is, its execution depends on an event, not on where in a program it is located.

Logical Page Size

The end-of-page check is performed after the processing of a DISPLAY or WRITE statement is completed. Therefore, if a DISPLAY or WRITE statement produces multiple lines of output, overflow of the physical page may occur before an end-of-page condition is detected.

A logical page size (session parameter PS) which is less than the physical page size must be specified to ensure that information printed by an AT END OF PAGE statement appears on the same physical page as the title.

Last-Page Handling

Within a main program, an end-of-page condition is activated when the execution of the main program terminates via ESCAPE, STOP or END.

Within a subroutine, an end-of-page condition is not activated when the execution of the subroutine terminates via ESCAPE-ROUTINE, RETURN or END-SUBROUTINE.

System Functions

Natural system functions may be used in conjunction with an AT END OF PAGE statement as described in the section *Using System Functions in Processing Loops* in the *System Functions* documentation.

If a system function is to be used within an AT END OF PAGE statement block, the GIVE SYSTEM FUNCTIONS clause must be specified in the corresponding DISPLAY statement.

INPUT Statement with AT END OF PAGE

If an INPUT statement is specified within an AT END OF PAGE statement block, no new page operation is performed. The page size (session parameter PS) must be reduced to a value that allows the lines created by the INPUT statement to appear on the same physical page.

See also:

- *Split Screen Feature* of INPUT Statement
- Example 2 AT END OF PAGE with INPUT Statement

Syntax Description

(<i>rep</i>)	Report Specification:The notation (rep) may be used to specify the identification of the report forwhich the AT END OF PAGE statement is applicable. A value in the range 0 - 31or a logical name which has been assigned using the DEFINE PRINTER statementmay be specified.If (rep) is not specified, the AT END OF PAGE statement will apply to thefirst report (Report 0).
END-ENDPAGE	For information on how to control the format of an output report created with Natural, see <i>Controlling Data Output</i> in the <i>Programming Guide</i> . The Natural reserved word END-ENDPAGE must be used to end the AT_END_OF
	PAGE statement.

Example

- Example 1 AT END OF PAGE
- Example 2 AT END OF PAGE with INPUT Statement

Example 1 - AT END OF PAGE

```
** Example 'AEPEX1S': AT END OF PAGE (structured mode)
DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES
 2 PERSONNEL-ID
 2 NAME
 2 JOB-TITLE
 2 SALARY (1)
 2 CURR-CODE (1)
END-DEFINE
*
FORMAT PS=10
LIMIT 10
READ EMPLOY-VIEW BY PERSONNEL-ID FROM '20017000'
 DISPLAY NOTITLE GIVE SYSTEM FUNCTIONS
        NAME JOB-TITLE 'SALARY' SALARY(1) CURR-CODE (1)
 /*
AT END OF PAGE
   WRITE / 28T 'AVERAGE SALARY: ...' AVER(SALARY(1)) CURR-CODE (1)
 END-ENDPAGE
END-READ
*
END
```

See also Natural System Functions for Use in Processing Loops.

NAME	CURRENT POSITION	SALARY CURRENCY CODE
CREMER MARKUSH GEE KUNEY NEEDHAM JACKSON	ANALYST TRAINEE MANAGER DBA PROGRAMMER PROGRAMMER	34000 USD 22000 USD 39500 USD 40200 USD 32500 USD 33000 USD
	AVERAGE SALARY:	33533 USD

Output of Program AEPEX1S:

Equivalent reporting-mode example: AEPEX1R.

Example 2 - AT END OF PAGE with INPUT Statement

```
** Example 'AEPEX2': AT END OF PAGE (with INPUT)
                                             DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES
  2 NAME
 2 FIRST-NAME
 2 POST-CODE
 2 CITY
*
1 #START-NAME (A20)
END-DEFINE
*
FORMAT PS=21
*
REPEAT
 READ (15) EMPLOY-VIEW BY NAME = #START-NAME
   DISPLAY NOTITLE NAME FIRST-NAME POST-CODE CITY
 END-READ
 NEWPAGE
  /*
 AT END OF PAGE
   MOVE NAME TO #START-NAME
   INPUT / '-' (79)
         / 10T 'Reposition to name ==>'
             #START-NAME (AD=MI) '(''.'' to exit)'
   IF #START-NAME = '.'
     STOP
   END-IF
 END-ENDPAGE
 /*
END-REPEAT
END
```

Output of Program AEPEX2S:

NAME	FIRST-NAME	POSTAL ADDRESS	CITY
ABELLAN ACHIESON ADAM	KEPA ROBERT SIMONE	28014 DE3 4TR 89300	MADRID DERBY JOIGNY

ADIVINGON	1000	11001	DDOOWL MI
ADKINSON	JEFF	11201	BROOKLYN
ADKINSON	PHYLLIS	90211	BEVERLEY HILLS
ADKINSON	HAZEL	20760	GAITHERSBURG
ADKINSON	DAVID	27514	CHAPEL HILL
ADKINSON	CHARLIE	21730	LEXINGTON
ADKINSON	MARTHA	17010	FRAMINGHAM
ADKINSON	TIMMIE	17300	BEDFORD
ADKINSON	BOB	66044	LAWRENCE
AECKERLE	SUSANNE	7000	STUTTGART
AFANASSIEV	PHILIP	39401	HATTIESBURG
AFANASSIEV	ROSE	60201	EVANSTON
AHL	FLEMMING	2300	SUNDBY

Reposition to name ==> AHL ('.' to exit)