

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>	<p>Report Specification: The notation (<i>rep</i>) may be used to specify the identification of the report for which the AT END OF PAGE statement is applicable. A value in the range 0 - 31 or a logical name which has been assigned using the DEFINE PRINTER statement may be specified.</p> <p>If (<i>rep</i>) is not specified, the AT END OF PAGE statement will apply to the first report (Report 0).</p> <p>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>.</p>
END-ENDPAGE	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*.

Output of Program AEPEX1S:

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

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	KEPA	28014	MADRID
ACHIESON	ROBERT	DE3 4TR	DERBY
ADAM	SIMONE	89300	JOIGNY

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)