BEFORE BREAK PROCESSING

Structured Mode Syntax

```
BEFORE [BREAK] [PROCESSING]

   statement ...

END-BEFORE
```

Reporting Mode Syntax

```
[BEFORE [BREAK] [PROCESSING]
{  statement                  }
{  DO statement ... DOEND     }
```

This chapter covers the following topics:

- Function

- Restrictions

- Syntax Description

- Example

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

Related Statements: ACCEPT/REJECT | AT BREAK | AT START OF DATA | AT END OF DATA | BACKOUT TRANSACTION | DELETE | END TRANSACTION | FIND | GET | GET SAME | GET TRANSACTION | HISTOGRAM | LIMIT | PASSW | PERFORM BREAK PROCESSING | READ | RETRY | STORE | UPDATE

Belongs to Function Group: *Database Access and Update*

Function

The BEFORE BREAK PROCESSING statement may be used in conjunction with automatic break processing to perform processing:

- before the value of the break control field is checked;

- before the statements specified with an AT BREAK statement are executed;

- before Natural system functions are evaluated.

This statement is most often used to initialize or compute values of user-defined variables which are to be used in break processing (see AT BREAK statement).

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

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

- *Control Breaks*

- *BEFORE BREAK PROCESSING Statement*

- *Example of BEFORE BREAK PROCESSING Statement*

Restrictions

- The BEFORE BREAK PROCESSING statement may only be used with a processing loop that has been initiated with one of the following statements:

  - FIND

  - READ

  - HISTOGRAM

  - SORT

  - READ WORK FILE

  It may be placed anywhere within the processing loop and is always related to the processing loop in which it is contained. Only one BEFORE BREAK PROCESSING statement may be specified per processing loop.

- The BEFORE BREAK PROCESSING statement must not be used in conjunction with the statement PERFORM BREAK PROCESSING.

Syntax Description

Syntax Element	Description
statement...	**Statement(s) for Break Processing:** In place of statement, you must supply one or several suitable statements, depending on the situation. For an example of a statement, see *Example* below. If no break processing is to be performed (that is, no AT BREAK statement is specified for the processing loop), any statements specified with a BEFORE BREAK PROCESSING statement will *not* be executed.
END-BEFORE	**End of BEFORE BREAK PROCESSING Statement:** In structured mode, the Natural reserved word END-BEFORE must be used to end the BEFORE BREAK PROCESSING statement.

Example

```
** Example 'BBPEX1': BEFORE BREAK PROCESSING
************************************************************************
DEFINE DATA LOCAL
1 EMPLOY-VIEW VIEW OF EMPLOYEES
  2 CITY
  2 NAME
  2 SALARY (1)
  2 BONUS  (1,1)
*
1 #INCOME  (P11)
END-DEFINE
*
LIMIT 7
READ EMPLOY-VIEW BY CITY = 'L'
  /*
 BEFORE BREAK PROCESSING
    COMPUTE #INCOME = SALARY (1) + BONUS (1,1)
  END-BEFORE
  /*
  AT BREAK OF CITY
    WRITE NOTITLE  'AVERAGE INCOME FOR' OLD (CITY) 20X AVER(#INCOME) /
  END-BREAK
  /*
  DISPLAY CITY 'NAME' NAME 'SALARY' SALARY (1) 'BONUS' BONUS (1,1)
END-READ
END
```

Output of Program BBPEX1:

```
         CITY               NAME           SALARY     BONUS
-------------------- -------------------- ---------- ----------


LA BASSEE            HULOT                  165000      70000
AVERAGE INCOME FOR LA BASSEE                                    235000

LA CHAPELLE ST LUC   GUILLARD               124100      23000
LA CHAPELLE ST LUC   BERGE                  198500      50000
LA CHAPELLE ST LUC   POLETTE                124090      23000
LA CHAPELLE ST LUC   DELAUNEY               115000      23000
LA CHAPELLE ST LUC   SCHECK                 125600      23000
LA CHAPELLE ST LUC   KREEBS                 184550      50000
AVERAGE INCOME FOR LA CHAPELLE ST LUC                          177306
```