

The default option is ABSOLUTE. This results in an absolute scan of the field for the specified value regardless of what other characters may surround the value.

WITH DELIMITERS is used to scan for a value which is delimited by blanks or by any characters that are neither letters nor numeric characters.

WITH DELIMITERS *operand5* is used to scan for a value which is delimited by the character(s) specified in *operand5*.

DELETE-REPLACE-clause



| Operand | Possible Structure | | Possible Formats | | | | | | | | | | Referencing Permitted | Dynamic Definition | | | |
|----------|--------------------|---|------------------|--|--|--|--|--|--|--|--|--|-----------------------|--------------------|--|-----|----|
| Operand6 | C | S | | | | | | | | | | | | | | yes | no |

The DELETE option is used to delete each value from *operand1*.

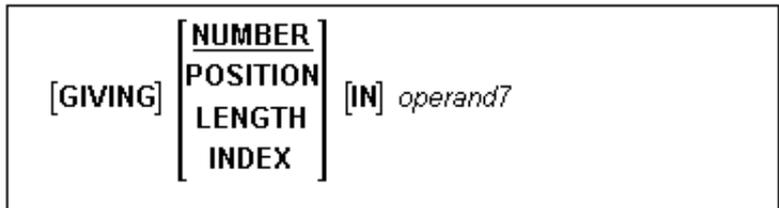
The REPLACE option is used to replace each value in *operand1* by the value specified in *operand6*.

If you specify the keyword FIRST, only the first identical value will be deleted/replaced.

If the REPLACE operation results in more characters being generated than will fit into *operand1*, you will receive an error message.

If *operand1* is a DYNAMIC variable, a REPLACE operation may cause its length to be increased or decreased; a DELETE operation may cause its length to be set to "0". The current length of a DYNAMIC variable can be ascertained by using the system variable *LENGTH. For general information on DYNAMIC variables, see your Natural User's Guide.

GIVING-clause



| Operand | Possible Structure | | Possible Formats | | | | | | | | | | Referencing Permitted | Dynamic Definition | | | |
|----------|--------------------|---|------------------|--|--|--|--|--|--|--|--|--|-----------------------|--------------------|--|-----|-----|
| Operand7 | | S | | | | | | | | | | | | | | yes | yes |

GIVING NUMBER is used to obtain the number of occurrences of the value sought. If the REPLACE FIRST or DELETE FIRST option is also used, the number will not exceed 1.

GIVING POSITION is used to obtain the byte position within *operand1* (or the substring of *operand1*) where the first value identical to *operand4* was found.

GIVING LENGTH is used to obtain the length of *operand1* (or the substring of *operand1*) after all delete/replace operations have been performed.

GIVING INDEX

`[GIVING] INDEX [IN] operand7...3`

GIVING INDEX is used to obtain the occurrence number (index) of the *operand1* occurrence in which the first value identical to *operand4* was found.

GIVING INDEX is applicable only if *operand1* is an array. *Operand7* must be specified as many times as there are dimensions contained in *operand1* (maximum three times).

Operand7 will contain "0" if the value sought is found in none of the occurrences.

Note:

If the index range of *operand1* includes the occurrence 0 (e.g. 0:5), a value of "0" in *operand7* is ambiguous. In this case, an additional GIVING NUMBER clause should be used to ascertain whether the value sought was actually found or not.

Example 1

```

/* EXAMPLE 'EXMEX1': EXAMINE
/*****
DEFINE DATA LOCAL
1 #TEXT (A40)
1 #A (A1)
1 #NMB1 (N2)
1 #NMB2 (N2)
1 #NMB3 (N2)
1 #NMBEX2 (N2)
1 #NMBEX3 (N2)
1 #NMBEX4 (N2)
1 #POSEX5 (N2)
1 #LGHEX6 (N2)
END-DEFINE
/*****
WRITE 'EXAMPLE 1 (GIVING NUMBER, WITH DELIMITER)'
MOVE 'ABC A B C .A. .B. .C. -A- -B- ' TO #TEXT
ASSIGN #A = 'A'
EXAMINE #TEXT FOR #A GIVING NUMBER #NMB1
EXAMINE #TEXT FOR #A WITH DELIMITER GIVING NUMBER #NMB2
EXAMINE #TEXT FOR #A WITH DELIMITER '.' GIVING NUMBER #NMB3
WRITE NOTITLE '=' #NMB1 '=' #NMB2 '=' #NMB3
/*****
WRITE / 'EXAMPLE 2 (WITH DELIMITER, REPLACE, GIVING NUMBER)'
WRITE '=' #TEXT
EXAMINE #TEXT FOR #A WITH DELIMITER '-' REPLACE WITH '*'
GIVING NUMBER #NMBEX2
WRITE '=' #TEXT '=' #NMBEX2
/*****
WRITE / 'EXAMPLE 3 (REPLACE, GIVING NUMBER)'
WRITE '=' #TEXT
EXAMINE #TEXT ' ' REPLACE WITH '+' GIVING NUMBER #NMBEX3
WRITE '=' #TEXT '=' #NMBEX3
/*****
WRITE / 'EXAMPLE 4 (FULL, REPLACE, GIVING NUMBER)'
WRITE '=' #TEXT
EXAMINE FULL #TEXT ' ' REPLACE WITH '+' GIVING NUMBER #NMBEX4
WRITE '=' #TEXT '=' #NMBEX4
/*****
WRITE / 'EXAMPLE 5 (DELETE, GIVING POSITION)'
WRITE '=' #TEXT
EXAMINE #TEXT '+' DELETE GIVING POSITION #POSEX5
WRITE '=' #TEXT '=' #POSEX5
/*****
WRITE / 'EXAMPLE 6 (DELETE, GIVING LENGTH)'
WRITE '=' #TEXT
EXAMINE #TEXT FOR 'A' DELETE GIVING LENGTH #LGHEX6
WRITE '=' #TEXT '=' #LGHEX6
END

```

```

EXAMPLE 1 (GIVING NUMBER, WITH DELIMITER)
#NMB1: 4 #NMB2: 3 #NMB3: 1

EXAMPLE 2 (WITH DELIMITER, REPLACE, GIVING NUMBER)
#TEXT: ABC A B C .A. .B. .C. -A- -B-
#TEXT: ABC A B C .A. .B. .C. -* -B- #NMBEX2: 1

EXAMPLE 3 (REPLACE, GIVING NUMBER)
#TEXT: ABC A B C .A. .B. .C. -* -B-
#TEXT: ABC+++A+B+C+++A.++.B.++.C.++++-*+++B- #NMBEX3: 18

EXAMPLE 4 (FULL, REPLACE, GIVING NUMBER)
#TEXT: ABC+++A+B+C+++A.++.B.++.C.++++-*+++B-
#TEXT: ABC+++A+B+C+++A.++.B.++.C.++++-*+++B-+ #NMBEX4: 1

EXAMPLE 5 (DELETE, GIVING POSITION)
#TEXT: ABC+++A+B+C+++A.++.B.++.C.++++-*+++B-+
#TEXT: ABCABC.A..B..C.-*--B- #POSEX5: 4

EXAMPLE 6 (DELETE, GIVING LENGTH)
#TEXT: ABCABC.A..B..C.-*--B-
#TEXT: BCBC...B..C.-*--B- #LGHEX6: 18

```

Example 2

```

/* EXAMPLE 'EXMEX2': EXAMINE SUBSTRING, PATTERN, TRANSLATE
/*****
DEFINE DATA LOCAL
1 #TEXT (A50)
1 #A (A7)
1 #NMB (N2)
1 #START (N2)
1 #TAB(A2/1:10)
END-DEFINE
/*****
MOVE 'ABC  A B C  .A.  .B.  .C.  -A-  -B-  -C-' TO #TEXT
/*****
ASSIGN #A = 'A B C'
ASSIGN #START = 6
EXAMINE SUBSTRING(#TEXT,#START,9) FOR #A GIVING NUMBER #NMB
WRITE NOTITLE '=' #NMB
/*****
EXAMINE #TEXT FOR PATTERN '*B' GIVING NUMBER #NMB
WRITE NOTITLE '=' #NMB
/*****
MOVE 'AX' TO #TAB(1)
MOVE 'BY' TO #TAB(2)
MOVE 'CZ' TO #TAB(3)
EXAMINE #TEXT TRANSLATE USING #TAB(*)
WRITE NOTITLE '=' #TEXT
EXAMINE #TEXT TRANSLATE USING INVERTED #TAB(*)
WRITE NOTITLE '=' #TEXT
/*****
END

```

```

#NMB:    1
#NMB:    4
#TEXT: XYZ  X Y Z  .X.  .Y.  .Z.  -X-  -Y-  -Z-
#TEXT: ABC  A B C  .A.  .B.  .C.  -A-  -B-  -C-

```