EXAMINE TRANSLATE

```
EXAMINE { operand1                                  } [AND]
        { SUBSTRING (operand1,operand2,operand3)    }
        TRANSLATE { INTO { UPPER } [CASE]           }
                  { USING [INVERTED] operand4       }
                  { LOWER }
```

Operand	Possible Structure					Possible Formats											Referencing Permitted	Dynamic Definition
Operand1		S	A			A											yes	no
Operand2	C	S					N	P	I								yes	no
Operand3	C	S					N	P	I								yes	no
Operand4		S	A			A					B						yes	no

Function

The EXAMINE TRANSLATE statement is used to translate the characters contained in a field into upper-case or lower-case, or into other characters.

operand1

Operand1 is the field whose content is to be translated.

SUBSTRING

Normally, the entire content of a field is translated.

With the SUBSTRING option, you translate only a certain part of the field. After the field name (*operand1*) in the SUBSTRING clause, you specify first the starting position (*operand2*) and then the length (*operand3*) of the field portion to be examined.

For example, to translate the 5th to 12th position inclusive of a field #A, you would specify:

```
EXAMINE SUBSTRING(#A,5,8) AND TRANSLATE ...
```

Note:
If you omit operand2, the starting position is assumed to be "1". If you omit operand3, the length is assumed to be from the starting position to the end of the field.

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INTO UPPER/LOWER CASE

If you specify INTO UPPER CASE, the content of *operand1* will be translated into upper case.

If you specify INTO LOWER CASE, the content of *operand1* will be translated into lower case.

Translation Table

Operand4 is the translation table to be used for character translation.

The table must be of format/length A2 or B2.

Note:
If for a character to be translated more than one translation is defined in the translation table, the last of these translations applies.

INVERTED

If you specify the keyword INVERTED, the translation table (*operand4*) will be used inverted; that is, the translation direction will be reversed.

Example

```
/* 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
```

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```
#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-
```