

LOWER\$ - Convert Text-string to Lower Case

The LOWER\$ routine converts a text-string to lower case.

1. Invocation

To convert a text-string to lower-case:

```
CALL LOWER$ USING string length
```

where *string* is a PIC X(n) variable length text-string and *length* is a PIC 9(4) COMP variable, or literal, indicating the length of the text-string.

2. STOP Codes and Exception Conditions

The following STOP codes may be generated by LOWER\$:

STOP code	Description
20205	The length parameter is zero.

No exceptions are returned by LOWER\$.

3. Programming Notes

LOWER\$ is only available with GSM SP-29, or later.

If the version of GLOBAL.EXE is V4.9e, or lower, LOWER\$ behaves as though the StrictAlphabeticCaseConversionInSVC21 setting is enabled (i.e. a 7-bit character set is assumed).

If the version of GLOBAL.EXE is V4.9f, or higher, the value of the StrictAlphabeticCaseConversionInSVC21 setting is honoured (i.e. an 8-bit character-set may be supported):

StrictAlphabeticCaseConversionInSVC21	Off	On
Byte values #41 - #5A converted to	#61 - #7A	#61 - #7A
Byte values #C1 - #DA converted to	#E1 = #FA	Not converted

LOWER\$ uses a bit-wise conversion so that some non-alphabetic characters may be converted. See the following before/after results:

```
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxy{|}~
!"#$%&'()*+,-./0123456789:;<=>?`abcdefghijklmnopqrstuvwxy{|}~□`abcdefghijklmnopqrstuvwxy{|}~
```

4. Examples

None.

5. Copy-Books

None.

6. See Also

- UPPER\$ Convert to upper-case
- LCASE\$ Convert alphabetic characters to lower-case
- UCASE\$ Convert alphabetic characters to upper-case