

The Library SysLibStr.lib

This library provides functions for string operations. If the target system is supporting the functionality, the following functions can be used. The execution is synchronous.

to compare strings:

- SysStrCmp
- SysStrCmpl
- SysStrCmpN
- SysStrCmpNI

to copy strings:

- SysStrCpy

or to retrieve the length of a string:

- SysStrLen

SysStrCmp

This function of type DINT compares lexicographically two strings and returns one of the following values:

Return value < 0 String1 smaller than String2
 Return value = 0 String1 = String2
 Return value > 0 String1 bigger als String2

Input-Variable	Data type	Description
dwString1	STRING	first String
dwString2	STRING	second String

SysStrCmpl

This function of type DINT checks whether two strings are identical and returns one of the following values:

Return value < 0 String1 smaller than String2
 Return value = 0 String1 = String2
 Return value > 0 String1 bigger than String2

Input-Variable	Data type	Description
dwString1	STRING	first String
dwString2	STRING	second String

SysStrCmpN

This function of type DINT compares the size of two strings, whereby a defined number of characters counted from the beginning of the string will be considered.

One of the following values will be returned:

Return value < 0 String1 smaller than String2
 Return value = 0 String1 = String2
 Return value > 0 String1 bigger than String2

Input-Variable	Data type	Description
sString1	STRING	first String
sString2	STRING	second String
diChars	DINT	Number of places, for which – counted from the beginning of the string – the size of the strings should be compared

SysStrCmpNI

This function of type DINT checks whether a defined number of characters of two strings (starting at the beginning of the string) are identical. One of the following return values will show the result:

Return value < 0 String1 smaller than String2
 Return value = 0 String1 = String2
 Return value > 0 String1 bigger than String2

Input-Variable	Data type	Description
sString1	STRING	first String
sString2	STRING	second String
diChars	DINT	Number of places, for which – counted from the beginning of the string – should be checked whether they are identic in both strings

SysStrCpy

This function of type DWORD copies one string (Str1) to another (Str2). It will return a pointer to the target string Str2.

Input-Variable	Data type	Description
sString1	STRING	String, to which you want to copy (target)
sString2	STRING	String, which should be copied (source)

SysStrLen

This function of type DINT acquires the length of a string. It will return the number of characters, excluding the "terminal NULL".

Input-Variable	Data type	Description
sString1	STRING	String, the length of which should be checked