The Library SysLibTime.lib

This library contains functions. This library provides the function blocks CurTime and CurTimeEx for reading the realtime clock of the local computer. The execution is synchronous.

Used structures: SystemTime SysTime64

CurTime

This function block provides the realtime of the local computer in microseconds; using the structure SysTime64.

Input Variable	Data type	Description
SystemTime	SysTime64	Realtime read from the local computer in microseconds, see structure SysTime64

CurTimeEx

This function block provides extended information on the realtime clock data on the local computer of type BOOL can be used to read the display mode of the realtime clock of the computer.

The function returns 0 in case of 12-hour mode, it returns 1 in case of 24-hour mode.

Input Variable	Data type	Description
bDummy	BOOL	TRUE starts the function

Structure SystemTimeDate

This structure contains the following information on the realtime given by the local computer clock. It is used by the function block CurTimeEx.

Component	Data type	Description
dwLowMSecs	DWORD	The realtime is returned in microseconds, using a Low DWORD plus a High DWORD, see also in structure SysTime64Structure_SysTime64>Proc
dwHighMsec	DWORD	
Year	UINT	Year, e.g. "2002"
Month	UINT	Month, e.g. "12"
Day	UINT	Day of month, e.g. "3"
Hour	UINT	Hour of the current day, e.g. "13"
Minute	UINT	Minutes of the current hour, e.g. "43"
Second	UINT	Seconds of the current minute, e.g. "15"
Milliseconds	UINT	Milliseconds of the current second, e.g. "649"
DayOfWeek	UINT	Day of the week, e.g. "2" (Monday = 1)

Structure SysTime64

This structure contains the realtime of the local computer in microseconds. A Low- plus a High-DWORD are used for that purpose, thus 64 Bit are available. The structure is used by the function blocks CurTime and CurTimeEx.

Component	Data type	Description
ulLow	DWORD	Low DWORD of the realtime value (microseconds)
ulHigh	DWORD	High DWORD of the realtime value (microseconds)