Subject: Since Raspberry have not RTC clock, I propose add SetTime functionality
Posted by sergeynikitin on Sun, 11 Dec 2016 17:52:54 GMT
View Forum Message <> Reply to Message

I propose this variant of function SetTime(Time) (file Core/TimeDate.cpp)

```
bool SetSysTime(Time time)
{
#ifdef __ARM_EABI__
 struct tm mytime;
    struct timeval garfield;
    time_t new_time;
 int result_t;

 //Set Time struct
 mytime.tm_sec = time.second;      // Seconds
 mytime.tm_min = time.minute;      // Minutes
 mytime.tm_hour = time.hour+1;       // Hours
 mytime.tm_mday = time.day;        // Day of Month
 mytime.tm_mon = time.month-1;     // Month
 mytime.tm_year = time.year-1900;    // Year


 new_time = mktime(&mytime);
 garfield.tv_sec =new_time;
 garfield.tv_usec=0;

 result_t=settimeofday(&garfield,NULL);
 if(result_t<0)
 {
  fprintf(stderr,"Error setting the Time.\n");
  return false;
 }
 else
 {
  return true;
 }
#else
#ifdef PLATFORM_POSIX
 struct tm      tmp_time;
 tmp_time.tm_sec  = time.second;
 tmp_time.tm_min  = time.minute;
 tmp_time.tm_hour = time.hour;
 tmp_time.tm_mday = time.day;
 tmp_time.tm_mon  = time.month-1;
 tmp_time.tm_year = time.year-1900;
 time_t raw_time  = mktime(&tmp_time);
```

```
 struct timespec sys_time;
 sys_time.tv_sec  = raw_time;
 sys_time.tv_nsec = 0;

 int result = clock_settime(CLOCK_REALTIME, &sys_time);
 return (result == 0);
#endif
#endif

#ifdef PLATFORM_WIN32
 SYSTEMTIME systime;
 systime.wYear = time.year;
 systime.wMonth = time.month;
 systime.wDay = time.day;
 systime.wHour = time.hour;
 systime.wMinute = time.minute;
 systime.wSecond = time.second;
 systime.wDayOfWeek = 0;
 systime.wMilliseconds = 0;
 return SetLocalTime( &systime );
#endif
}
```