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Subject: DST issue in Time()

Posted by [koldo](#) on Tue, 27 Mar 2018 07:08:22 GMT

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Hello all

Please check if we handle Daylight saving time properly in Windows.

I have checked it in C: local NTFS disk from Windows 10 and actual code does not report right hour.

However, from a Linux virtual machine, same code report properly the file time

```
Actual code for Windows:Time::Time(FileTime filetime) {
    SYSTEMTIME tm;
    FileTime ft;
    FileTimeToLocalFileTime(&filetime, &ft);
    FileTimeToSystemTime(&ft, &tm);
    *this = Time(tm.wYear, tm.wMonth, tm.wDay, tm.wHour, tm.wMinute, tm.wSecond);
}
```

```
Proposed code:Time::Time(FileTime filetime) {
    SYSTEMTIME tm, tml;
    FileTimeToSystemTime(&filetime, &tm);
    SystemTimeToTzSpecificLocalTime(NULL, &tm, &tml);
```

```
    *this = Time(tml.wYear, tml.wMonth, tml.wDay, tml.wHour, tml.wMinute, tml.wSecond);
}
```

See this: To account for daylight saving time when converting a file time to a local time, use the following sequence of functions in place of using FileTimeToLocalFileTime:

```
FileTimeToSystemTime
SystemTimeToTzSpecificLocalTime
```

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