
Subject: Missing GetTickCount64

Posted by [steffen](#) on Thu, 23 Oct 2014 09:50:32 GMT

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Windows Vista and newer has got a GetTickCount64 function, I was recently making a long running application and had a use for a non overflowing timer value.

So here is a simple expansion of the existing block in Core/Utils:

```
#ifdef PLATFORM_POSIX
dword GetTickCount() {
#if _POSIX_C_SOURCE >= 199309L
    struct timespec tp;
    if (clock_gettime(CLOCK_MONOTONIC, &tp) == 0)
    {
        return (dword)((tp.tv_sec * 1000) + (tp.tv_nsec / 1000000));
    }
    return 0; // ?? (errno is set)
#else
    struct timeval tv[1];
    struct timezone tz[1];
    memset(tz, 0, sizeof(tz));
    gettimeofday(tv, tz);
    return (dword)tv->tv_sec * 1000 + tv->tv_usec / 1000;
#endif
}
```

```
qword GetTickCount64() {
#if _POSIX_C_SOURCE >= 199309L
    struct timespec tp;
    if (clock_gettime(CLOCK_MONOTONIC, &tp) == 0)
    {
        return (qword)((tp.tv_sec * 1000) + (tp.tv_nsec / 1000000));
    }
    return 0; // ?? (errno is set)
#else
    struct timeval tv[1];
    struct timezone tz[1];
    memset(tz, 0, sizeof(tz));
    gettimeofday(tv, tz);
    return (qword)tv->tv_sec * 1000 + tv->tv_usec / 1000;
#endif
}
#endif
```
