
Subject: Re: Thread::GetCurrentThreadId() and Thread::GetCurrentThreadHandle()
new methods

Posted by [tojocky](#) on Tue, 11 Jan 2011 15:11:20 GMT

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mirek wrote on Tue, 11 January 2011 15:49We have

```
Handle    GetHandle() const { return handle; }
```

but no equivalent for thread ID (whereas we have both as static method).

GetHandle is not a static method. GetHandle and GetCurrentHandle are different methods.

Other Idea:

To demonstrate that Mirek proposed (customized) a more faster than my proposed (API) I have created a simple test running in threads:

```
void WorkerThread(DivisorsInfo f)
```

```
{
```

```
    char _l[1000];
```

```
    Thread::Id id_api;
```

```
    Thread::IdCustom id_custom;
```

```
    TimeStop v_timer;
```

```
    v_timer.Reset();
```

```
    for(int i=0;i<1000000000;++i){
```

```
        id_custom = Thread::GetCurrentIdCustom();
```

```
    }
```

```
    dword v_time_cust = v_timer.Elapsed();
```

```
    v_timer.Reset();
```

```
    for(int i=0;i<1000000000;++i){
```

```
        id_api = Thread::GetCurrentId();
```

```
    }
```

```
    dword v_time_api1 = v_timer.Elapsed();
```

```
    sprintf(_l, "Run Thread: %X. api time %u, custom time %u", Thread::GetCurrentIdCustom(),  
v_time_api1, v_time_cust);
```

```
}
```

and restul under linux (Ubuntu):

Run Thread: B34EEF34. api time 0.991, custom time 1.088. custom realization are faster
0.910846 times

Run Thread: B2CEBF34. api time 1.455, custom time 1.080. custom realization are faster
1.347222 times

Run Thread: B24E8F34. api time 1.862, custom time 0.680. custom realization are faster 2.738235 times
Run Thread: B1CD4F34. api time 2.133, custom time 0.927. custom realization are faster 2.300971 times
Run Thread: B0CAFF34. api time 2.223, custom time 0.698. custom realization are faster 3.184814 times
Run Thread: B14C3F34. api time 2.234, custom time 0.903. custom realization are faster 2.473976 times
Run Thread: B049BF34. api time 2.192, custom time 0.648. custom realization are faster 3.382716 times
Run Thread: AFC87F34. api time 2.030, custom time 0.573. custom realization are faster 3.542757 times

and same code under windows xp

Run Thread: 162229. api time 0.672, custom time 0.390. custom realization are faster 1.723077 times
Run Thread: 167561. api time 0.860, custom time 0.984. custom realization are faster 0.873984 times
Run Thread: 162229. api time 1.219, custom time 1.156. custom realization are faster 1.054498 times
Run Thread: 171BD1. api time 1.265, custom time 0.735. custom realization are faster 1.721088 times
Run Thread: 16C899. api time 1.594, custom time 0.890. custom realization are faster 1.791011 times
Run Thread: 176F09. api time 1.485, custom time 0.578. custom realization are faster 2.569204 times
Run Thread: 17C241. api time 1.485, custom time 0.437. custom realization are faster 3.398169 times
In the end: Mirek realization are approximative 2 times faster than API functionality.
Mirek, can you add your proposed functionality?
