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× PC , Windows Application 가 .

- Application
- Serial
- 
- PC
- Windows

- **Windows Timer Resolution**
- Windows Timer 15.625ms Resolution 가 ,
- , 1ms Sleep 15ms 16ms Sleep 가
- Sleep Time
- Visual Studio Timer Resolution 1ms

### Solution (ComiIDE)

- **Shell TimerResolution** ,

### Solution (C++)

```
// timeBeginPeriod
// 1ms 가
// 0.5ms Resolution NtSetTimerResolution

#define TARGET_RESOLUTION 1 // 1-millisecond target resolution

TIMECAPS tc;
UINT wTimerRes;
```

```
if (timeGetDevCaps(&tc, sizeof(TIMECAPS)) != TIMERR_NOERROR)
{
    // Error; application can't continue.
}

wTimerRes = min(max(tc.wPeriodMin, TARGET_RESOLUTION), tc.wPeriodMax);
timeBeginPeriod(wTimerRes);

//      do your stuff here at approx. 1 ms timer resolution
timeEndPeriod(wTimerRes);
```

### Solution (C#)

```
[DllImport("ntdll.dll", SetLastError = true)]
private static extern NtStatus NtSetTimerResolution(
    uint DesiredResolution,
    bool SetResolution,
    ref uint CurrentResolution);

public static float SetTimerResolution(uint
timerResolutionIn100nsUnits, bool doSet = true)
{
    //      100ns
    // 1ms      SetTimerResolution(10000);
    // Enum NtStatus      ,      int

    uint currentRes_100ns = 0;
    var result = NtSetTimerResolution(timerResolutionIn100nsUnits,
doSet, ref currentRes_100ns);
    return currentRes_100ns;
}
```

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