

Re: 99% CPU usage in CWinThread::PumpMessage

Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.mfc/2004-04/1139.html>

From: Olaf van der Spek (*Olaf_at_XCC.TMFWeb.NL*)

Date: 04/12/04

Date: Mon, 12 Apr 2004 17:48:42 +0200

KS wrote:

> *Not sure without seeing the code.*

If I understand the profiler output correctly, the following lines tell me that the PumpMessage function consumed 98.6% of the time itself and 99.1% of the time was consumed by itself and it's children.

>> 75351,273 98,6 75773,696 99,1 1437

>> CWinThread::PumpMessage(void) (mfc42d.dll)

> *But if you have a thread that has a loop in it, I'd suggest putting a Sleep(100) inside the loop. I've had problems with threads hogging up resources.*

I do have a loop, but it's blocking on a select call.

>

> *Another possibility is to lower the thread's priority.*

That won't solve the CPU usage itself, although it's a reasonable temporary workaround.

>

> *KS*

>

> *"Olaf van der Spek" <Olaf@XCC.TMFWeb.NL> wrote in message news:u6f7utJIEHA.3444@TK2MSFTNGP11.phx.gbl...*

>

>> *Hi,*

>>

>> *I'm writing a file transfer application and I'm stuck with a nasty issue. For some weird reason, CPU usage hits 99% some times. So I fired up the VC6 profiler, the results are attached.*

>>

>> *98% of the time is spend inside CWinThread::PumpMessage*

>> *But that's a simple function, how can so much time be spend there?*

>>

>> *Profile: Function timing, sorted by time*

>> *Date: Sun Apr 11 21:12:13 2004*

```
>>
>>
>>Program Statistics
>>-----
>> Command line at 2004 Apr 11 20:57: "F:\VC\xbt\XBT Client\Debug\XBT
>>Client"
>> Total time: 76459,318 millisecond
>> Time outside of functions: 20,774 millisecond
>> Call depth: 36
>> Total functions: 3188
>> Total hits: 1435373
>> Function coverage: 39,6%
>> Overhead Calculated 2
>> Overhead Average 2
>>
>>Module Statistics for xbt client.exe
>>-----
>> Time in module: 76438,544 millisecond
>> Percent of time in module: 100,0%
>> Functions in module: 3188
>> Hits in module: 1435373
>> Module function coverage: 39,6%
>>
>> Func Func+Child Hit
>> Time % Time % Count Function
>>-----
>> 75351,273 98,6 75773,696 99,1 1437
>>CWinThread::PumpMessage(void) (mfc42d.dll)
>> 75,806 0,1 75,806 0,1 58546 operator delete(void *)
>>(mfc42d.dll)
>> 73,318 0,1 107,126 0,1 155186
>>std::allocator<bool>::~destroy(bool *) (bt_file.obj)
>
>
>
```