
Subject: Re: Measure Performance via QueryPerformanceCounter

Posted by [KM](#) on Sat, 20 Nov 2004 15:20:20 GMT

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On Sat, 19 Nov 2004, Daniel wrote:

> I have a small programm with some loops, but still the programm is
> to slow. So I would like to measure which loops take how long. I
> was thinking of measuring via with help of the
> QueryPerformanceCounter API like
>
> result=call_external('kernel32.dll','QueryPerformanceCounter ',/l64_value)
>
> but I only get an constant value as return. Has anybody used this
> API before an how would the correct call_external command look
> like.

Are your loops and program in IDL on in the DLL? It looks like you might be using the DLL just for performance checking? If so, you might want to stay in IDL instead and look at the PROFILER procedure.

-k.

Subject: Re: Measure Performance via QueryPerformanceCounter

Posted by dszlucha@gmail.com on Sat, 20 Nov 2004 22:59:23 GMT

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Daniel -

To measure elapsed time in IDL try:

```
start = SYSTIME(/SECONDS)
```

<code to time here>

```
elapsed_time = SYSTIME(/SECONDS) - start
```

Also, a win32 function that I've used to ckeck elapsed time is
timeGetTime() (result = CALL_EXTERNAL('kernel32.dll', 'timeGetTime',
/L64_VALUE))

David

Subject: Re: Measure Performance via QueryPerformanceCounter

Posted by [supaey2000](#) on Mon, 22 Nov 2004 15:11:10 GMT

Thank you Ken and David for your help.

The PROFILER procedure was what I was looking for and I will use it in future.

The resolution of Systime (/seconds) was not accurate enough to allow measurements of the required time for 5 or 6 IDL commands within one procedure.

The QueryPerformanceCounter still helped me for this.

It worked quite good with the C-Code Library IDL_Tools from Randall Frank for IDL 5.6 (<http://www.kilvarock.com/freesoftware/dlms/randallfrank.htm>), since Call_External can't handle "normal" paramters.

I give an short example for someone who needs to call kernel32.dll functions.

```
err = EXTPROC_DEFINE('QueryPerformanceCounter','kernel32.dll','QueryPerformanceCounter','l(p)')
err = EXTPROC_DEFINE('QueryPerformanceFrequency','kernel32.dll','QueryPerformanceFrequency','l(p)')
```

```
a=[0ll]
b=[0ll]
c=[0ll]
ret=QueryPerformanceFrequency(a)
ret=QueryPerformanceCounter(b)
```

```
for i=0,10 do print, 'Performance Test'
ret=QueryPerformanceCounter(c)
```

```
print, 'Time required: ' + strtrim(string((c-b)/double(a)),2) + '
Seconds'
```

Thank you,

Daniel
