
Subject: Re: Confusion about nthread and ncore

Posted by [victor.cazcarra](#) on Thu, 27 Nov 2014 09:05:51 GMT

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El martes, 25 de noviembre de 2014 18:38:48 UTC+1, chu xiangning escribió:

> Thanks for your suggestion!

> I've tested my program under different cases by setting nthreads to different values.

(cpu,tpool_nthreads = 3)

> I have an i7 cpu, which has 4 cores and 8 threads(2 per cpu).

> It turns out the program runs faster when I set nthread to 4 instead of 8 (IDL default). This result is expected anyway.

> As a suggestion to IDL, I would suggest they change the default value of nthreads according to number of cores.

>

>

> nthread time (sec)

> 1 7.923

> 2 4.458

> 3 3.451

> 4 3.055

> 6 3.162

> 8 3.298

Hi,

I think that it always depends on your program. if your program can do some works in parrallel automatically, for example if you work with big matricies IDL do some parallelization so it is better not using all the threads.

I was working with IDL_bridge trying to split a big loop to work in parallel and for me it worked better using the number of threads instead of the number of cores.

I am not a hardware expert but I guess that it also depends on the structure of your processor.

In any case, It is a good idea always testing your program and choose the best compromise between number of threads and time.
