
Subject: Re: Help, no improvement in FFT speed on a multiprocessor system
Posted by [Kenneth P. Bowman](#) on Mon, 07 Sep 2009 13:40:36 GMT
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In article <4aa34391\$1@darkstar>, "Marco" <null@null.net> wrote:

> I'm running IDL 7.1 on a Linux 2.6. This is an HP quad processor with each
> processors having 6 cores for 24 cores total.
>
> Doing large 2-D FFTs (>8Kx8K) I get no benefit from the extra processors.
> I can vary the number used in IDL from 24 down to 1, and see that the
> number actually of processors actually showing a load is the correct number,
> but from 4 to 24 threads, the speed is the same and no faster than Matlab,
> which uses only a single processor out of the 24.
>
> I've tried varied IDL_CPU_TPOOL_NTHREADS and IDL_CPU_TPOOL_MIN_ELTS, but
> have not been able to improve the results.
>
> Any suggestions?
>
> Thanks in advance,

Do your array dimensions have small prime factors (2, 3, 4, or 5)?

Ken Bowman
