Subject: Help, no improvement in FFT speed on a multiprocessor system
Posted by Marco on Sun, 06 Sep 2009 05:06:53 GMT

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,

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