Subject: Re: 2D FFT Slow. Any ideas? Posted by Brian on Mon, 08 Dec 2003 08:02:02 GMT View Forum Message <> Reply to Message Hi, The IDL code is A=dcomplex(randomn(seed,2048, 2048,/DOUBLE), randomn(seed,2048, 2048,/DOUBLE)) t=systime(1) FA=fft(A,-1)print, systime(1)-t The corresponding matlab code is A = randn(2048,2048) + i\*randn(2048,2048);tic; FA=fft2(A); toc I get around 10.4 sec in IDL, and around 3.7 sec in MATLAB 6.5 -brian "R.G. Stockwell" <noemail@please.com> schrieb im Newsbeitrag news:gN3Ab.767\$o\_.32178@news.uswest.net... > "Brian" <bri> brian.huether@NOdlrSPAM.de> wrote in message > news:a298a85e9af4e70d51199dcae50c4c81@news.teranews.com... >> I did a little benchmark between IDL and MATLAB. In each case I created >> random double precision complex array of size 2048 by 2048 and timed how >> long the 2D FFT took. In MATLAB 6.5 it took about 3.5 sec, and in IDL, it >> took about 10 sec. Is there a way to have IDL use MATLAB for the FFT, >> perhaps using activex? Or would the overhead in using activex defeat the >> purpose? >> >> thanks, >> brian >> >> > You could try calling an external routine, some of the best being available

at (fastest ft in the west)

> http://fftw.org/

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Cheers,
bob
PS I can't believe active x calls would improve speed, but hey, you never
know.
And, I'm surprised that the canned IDL is not very fast. Any chance you
don't really
have a 2048^2 array in idl (did you make a 2049^2 array for instance?)
If you post a blip of example code, I can run them here (matlab and idl) and
verify the time difference,
which would be very interesting.
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