Subject: Re: Complications with variance using FFTs Posted by Craig Markwardt on Wed, 21 Jul 2004 18:30:54 GMT

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olde_english33@hotmail.com (Eric) writes:

>

- > From what I can gather from my program, the positive frequencies are
- > those from 1:15. Then the frequencies from 16:30 are the complex
- > conjugates of the frequencies from 15:1. Therefore, I thinkt that IDL
- > is already accounting for the complex conjugate in the negative
- > frequencies, unless I am missing something.

I think you are missing that when you multiply the positive frequency components by a complex phase, then you must also multiply the negative frequency components by the complex conjugate, i.e. the negative of that phase. To preserve a real signal that is.

That's another probing question, is the final result of your technique real or complex?

Craig	
,	EMAIL: craigmnet@REMOVEcow.physics.wisc.edu Derivatives Remove "net" for better response