Subject: Re: negative return values after FFT
Posted by James Kuyper on Thu, 27 Jul 2006 16:43:09 GMT
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edward.s.meinel@aero.org wrote:
> FFT(*, *) can take REAL input and return a COMPLEX result; however, a
> COMPLEX input always returns a COMPLEX result. To get a REAL result you
> need to do:
>
> inverse = REAL(ABS(FFT(ft, 1)))
>
> Ed
>
> PS. The one-line solution: inverse =
> REAL(ABS(FFT(FILTERING_JOB(FFT(image, -1)), 1)))

OK - that's a different way of interpreting the message. I was assuming, when he said that result was complex, that he wasn't referring to the data type of the result, but to it's value: in other words, that he was saying that the imaginary parts of the resulting array had significantly non-zero magnitudes. With real-valued images, and a properly defined filter, that shouldn't happen.

To the original poster (Google shortens your e-mail address to 'adisn...@yahoo.com', so I have no idea what I should call you):
Are you merely saying that the data type of the result was complex, or are you making the stronger statement that the values in that result had signficantly non-zero imaginary components?