
Subject: Re: looking for 2D FFT code?

Posted by [jyli](#) on Fri, 20 Dec 1996 08:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

William Ryu (wsryu@fas2.fas.harvard.edu) wrote:

: While it isn't obvious from the help file, IDL's `fft()` function will
: do multi-dimensional ffts ("The result returned by FFT is a complex
: array that has the same dimensions as the input array.").

With the help of RSI engineers, I think I have found the answer to my problem.

In the beginning, I fed a test image into FFT and the resulting power spectrum was not what I expected. Well now I know it is because the way IDL stores positive and negative frequency components in the FFT complex arrays, one needs to do a shift operation before displaying the spectrum. And now Page 1-280 in the IDL reference manual seems to make a lot sense.

Thanks for those who have responded.

happy holidays and happy IDL programming !

--

=====

Jason Y. Li	Tel : (301) 286-1029
Code 913	Fax : (301) 286-1759
NASA Goddard Space Flight Center	www : http://climate.gsfc.nasa.gov
Greenbelt, MD 20771, USA	email: jyli@climate.gsfc.nasa.gov

=====

Beauty of style, harmony, grace and good rhythm depend on simplicity.
