Subject: Re: negative return values after FFT Posted by edward.s.meinel@aero. on Thu, 27 Jul 2006 14:22:00 GMT View Forum Message <> Reply to Message

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))) adisn123@yahoo.com wrote: > Hi, > > I did FFT from spacial domain to frequency domain on an image of about 500 x 500 pixel size. > IDL> ft = FFT(image, -1) > > After filtering job, it was inversly fourier tranformed back using > IDL> inverse = FFT(ft, 1) > When I printed "inverse", the values were complex numbers. > 1. Aren't they supposed to real numbers since I tranformed back to > spcial domain? > When I only get real numbers, using > IDL> print, float(FFT(ft,1)) > There were some negative values in the array (quite a lot). > > For my understanding, the inversely fourier tranformed values should > represent the pixel values corresponding to individual pixel > coordinates in 500 x 500 size. > How do I interpret those negative pixel values?

> Thanks.