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Subject: negative return values after FFT

Posted by [adisn123](#) on Wed, 26 Jul 2006 21:01:57 GMT

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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.

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