
Subject: Re: FFTs in IDL

Posted by [Sergei Senin](#) on Fri, 23 Feb 1996 08:00:00 GMT

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Achim Hein <hein@maxwell.nv.et-inf.uni-siegen.de> wrote:

>>> skipped<<<

> -It is very important to know that there is a little mistake in the

> WAVE-Algorithm not in the IDL-Algorithm, try to plot test=findgen(4097)

> and oplot,fft(fft(test,-1),1) you will see what I mean.

Sorry, a I'm a bit late for this discussion, but nevertheless:

```
wave> test=findgen(4097)
```

```
wave> print, max(test-fft(fft(test,-1),1))
```

```
wave> ( 29.4698, 0.247685)
```

and:

```
wave> test=findgen(4096)
```

```
wave> print, max(test-fft(fft(test,-1),1))
```

```
wave> ( 0.0163574, -0.000450487)
```

There seems to be no mistake, but simply no check in the procedure for the number of elements in the array being 2^X .

> -In my opinion zero padding is definitely not a stupid thing to do.

No, but sometimes painfull :-) Could REBIN help in doing this for 2D arrays?

> Achim Hein

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