
Subject: Re: idl and pv-wave

Posted by [Achim Hein](#) on Fri, 24 Jan 1997 08:00:00 GMT

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decre wrote:

>

> Achim Hein wrote:

>>

>> Matt Delaney wrote:

>>>

>> In my opinion IDL allows more powerful tools especially graphic

>> input/output-tools additionally there are some little mistakes in the

>> WAVE/FFT algorithm.

>>

>> Achim

>>

>> _____

>>

>

> Wooops !

> I'm new to pv-wave and intend to use it for fft, a.o.

> Can you comment on those little mistakes in the WAVE/FFT ?

>

> Many thanks,

> Michel Decre

>

Try the following:

wave>test=findgen(4097)

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

wave>(31.3898,0.350983)

In IDL you will get as result:

IDL>test=findgen(4097)

IDL>print,max(test-fft(test,-1),1))

IDL>(0.000244141,1.39110e-05)

If you try to evaluate this FFT with a 4096-length, the results in both programs are quite equal.

There was a discussion some month ago with Sergei Senin....:

In his opinion:

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

But I think:

> It seems so, but I think a Fourier-Transform-Algorithm has to

> run for every array length

> <No, it shouldn't (at least in what is called classical FFT) - but a

<*programme*, based on the algorithm should.

> <Sergei Senin

> <ss@ee.port.ac.uk, <http://www.ee.port.ac.uk:80/~ss-www/>

Is there any 'mistake'-archive for IDL/WAVE?

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