
Subject: Re: Divide By Zero error

Posted by [Craig Markwardt](#) on Fri, 09 Nov 2001 22:59:44 GMT

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"Logan Lindquist" <llindqsit@mrdoc.cc> writes:

> This is a multi-part message in MIME format.
>
> -----=_NextPart_000_0009_01C16841.6350B0C0
> Content-Type: text/plain;
> charset="iso-8859-1"
> Content-Transfer-Encoding: quoted-printable
>
> Does anyone know what the minum window size is for the fft function? =
> Does it have to be divisble by a certain number? I am getting 0's with a =
> 8x8 array. The array is pretty flat and dark [all around pixel value of =
> 50] but I wouldn't think that I should get zero's returned as a =
> frequency component.=20
>
> The solution that I see is to check to see if there are zero's in the =
> array and then either change them to 0.1 or skip that array when trying =
> to display it. [with a note to the user letting them know that no =
> frequency component can be found.]
>
> Hopefully someone will read this! I am going to try calling RSI to see =
> if they have an answer.=20

Logan, the usual way fourier power is defined, is the *squared
magnitude* of the fourier coefficients.

If you define

power = -alog10(abs(f)^2)

then I think your problems will be alleviated.

Craig

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