
Subject: Re: Divide By Zero error

Posted by [Paul Manusiu](#) on Fri, 09 Nov 2001 05:24:04 GMT

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```
<!doctype html public "-//w3c//dtd html 4.0 transitional//en">
```

```
<html>
```

```
<body bgcolor="#FFFFFF">
```

What is the log of zero ??

<p>Logan Lindquist wrote:

```
<blockquote TYPE=CITE><style></style>
```

```
<font face="Arial"><font size=-1>I
```

```
got another one for all you math whiz's!</font></font>&nbsp;<font face="Arial"><font size=-1>Here
```

```
is the error</font></font><font face="Arial"><font size=-1>*****</font></font><font size=-2>IDL>
```

```
.STEP</font><font size=-2>% Program caused arithmetic error: Floating divide
```

```
by 0</font><font size=-2>% Program caused arithmetic error: Floating illegal
```

```
operand</font>&nbsp;<font face="Arial"><font size=-1>&nbsp;<font face="Arial"><font size=-1>Caused by second
```

```
statement [log]</font></font><font face="Arial"><font size=-1>****</font></font><font
```

```
face="Arial"><font size=-1>f
```

```
= fft(tempfft, -1)</font></font><font face="Arial"><font size=-1>power
```

```
= -alog10(double(f))</font></font>&nbsp;&nbsp;<font face="Arial"><font size=-1>I
```

tried a bunch of different things trying to isolate the error and get it

to stop. That is why the code looks that way and not all nice and compact.

I don't understand exactly why it's giving me invalid numbers and so this

is why I shall include the output data: print,

```
f</font></font><font face="Arial"><font size=-1>*****</font></font><font size=-2>(
```

```
55.0313, 0.000000)( 0.378331, 1.10309)( -0.281250, 0.312500)( -0.284581,
```

```
0.134343)( -0.281250, 0.000000)( -0.284581, -0.134343)</font><font size=-2>(
```

```
-0.281250, -0.312500)( 0.378331, -1.10309)</font><font size=-2>( 0.467505,
```

```
0.265950)( 0.117743, -0.359700)( 0.0514515, -0.0800206)( 0.0514515, -0.0175206)(
```

```
0.0643956, -0.00457645)( 0.0735485, 0.00457646)</font><font size=-2>( 0.0643956,
```

```
0.0396177)( 0.139840, 0.0266735)</font><font size=-2>( -0.234375, 0.265625)(
```

```
0.0312500, -0.0845971)( -0.0156250, -0.0156250)( -0.0129442, -0.0533471)(
```

```
0.0156250, -0.0468750)( 0.0312500, -0.0404029)</font><font size=-2>( -0.0156250,
```

```
-0.0156250)( 0.0754442, -0.00915291)</font><font size=-2>( -0.217505, 0.109700)(
```

```
0.0735485, -0.0487706)( -0.00189563, 0.0708677)( 0.00725728, -0.0159502)(
```

```
-0.00189563, 0.0266735)( -0.0148398, -0.00457646)</font><font size=-2>(
```

```
0.0735485, 0.0137294)( 0.0514515, -0.0266735)</font><font size=-2>( -0.187500,
```

```
0.000000)( 0.0377221, -0.0156250)( 0.000000, 0.000000)( -0.00647209, 0.0156250)(
```

```
0.000000, 0.000000)( -0.00647209, -0.0156250)</font><font size=-2>( 0.000000,
```

```
0.000000)( 0.0377221, 0.0156250)</font><font size=-2>( -0.217505, -0.109700)(
```

```
0.0514515, 0.0266735)( 0.0735485, -0.0137294)( -0.0148398, 0.00457646)(
```

```
-0.00189563, -0.0266735)( 0.00725728, 0.0159502)</font><font size=-2>(
```

```
-0.00189563, -0.0708677)( 0.0735485, 0.0487706)</font><font size=-2>( -0.234375,
```

```
-0.265625)( 0.0754442, 0.00915291)( -0.0156250, 0.0156250)( 0.0312500,
```

```
0.0404029)( 0.0156250, 0.0468750)( -0.0129442, 0.0533471)</font><font size=-2>(
```

```
-0.0156250, 0.0156250)( 0.0312500, 0.0845971)</font><font size=-2>( 0.467505,
```

```
-0.265950)( 0.139840, -0.0266735)( 0.0643956, -0.0396177)( 0.0735485, -0.00457646)(
```

0.0643956, 0.00457645)(0.0514515, 0.0175206)(0.0514515,
0.0800206)(0.117743, 0.359700) print,
power*****IDL>
print, power-1.7406094 0.42212772 NaN NaN NaN NaN
NaN 0.422127720.33021387 0.92906595 1.2886023 1.2886023
1.1911436 1.1334259 1.1911436 0.85436921NaN 1.5051500
NaN NaN 1.8061800 1.5051500 NaN 1.1223743NaN 1.1334259
NaN 2.1392261 NaN NaN 1.1334259 1.2886024NaN 1.4234043
Infinity NaN Infinity NaN Infinity 1.4234043NaN 1.2886024
1.1334259 NaN NaN 2.1392261 NaN 1.1334259NaN 1.1223743
NaN 1.5051500 1.8061800 NaN NaN 1.50515000.33021387
0.85436921 1.1911436 1.1334259 1.1911436 1.2886023 1.2886023
0.92906595 What
is this NaN business and why am I getting Infinity? Arg :) <font
face="Arial">Thanks
to the math geeks,<font
size=-1>Logan</blockquote>

 </body></html>
