
Subject: Re: how to debug floating error

Posted by [user](#) on Wed, 10 Jul 2002 10:36:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

well i don't know if this is going to help at all, but i had a quite similar problem when i started using idl few weeks ago. i operated alog() to a matrix which contained negative values. error message was:

```
% Program caused arithmetic error: Floating divide by 0
% Program caused arithmetic error: Floating illegal operand
```

but the operation still ran to the end. values that couldn't be calculated were replaced with string '-NaN' in the result matrix. now you can at least start tracing the problem :) just convert the image matrix to string and execute the command

```
print,where(string_matrix eq '      -NaN')
```

notice the white spaces :)

check your calculations
and think what values are considered as 'bad data'. i hope this helps.

oh, the other possible string can be '-Inf'

-sauli

Julia wrote:

```
> Hi, there,
>
> I made a program to do the FFT analysis of an image. After the program
> terminated, there are some error information printed in the log window:
> "
> % Program caused arithmetic error: Floating underflow
> % Program caused arithmetic error: Floating overflow
> % Program caused arithmetic error: Floating illegal operand
> "
>
> The program can run till the end of it. And only these error informations
> are displayed. How can I know where these errors occure? How can I debug
> them out?
>
> Any suggestion will be appreciated,
>
> Julia
```

>
>
>
