## 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

>

Subject: Re: how to debug floating error Posted by Kenneth P. Bowman on Wed, 10 Jul 2002 12:16:05 GMT View Forum Message <> Reply to Message

In article <agggkc\$f13\$1@dipsy.missouri.edu>, "Julia" <julia65201@yahoo.com> wrote:

- > % 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?

The first thing to do is to set

!EXCEPT = 2

See the chapter on controlling errors in the "Building IDL Applications" manual.

Regards, Ken