Subject: Re: IDL platform difference Posted by Christophe Marque on Thu, 25 Mar 1999 08:00:00 GMT View Forum Message <> Reply to Message

## **Hubert Dietl wrote:**

>

- > I have noticed that IDL for Windows and IDL for MacOS seem to handle
- > some calculations and/or output using float variables differently. I
- > have a procedure that is carrying out a large calculation and printing
- > the results to a file. When I run the same procedure on the two
- > different platforms, I get two different amswers. Example:

>

> On the PC: 4.94e+009 On the Mac: 4.93e+09

>

- > I expected the difference in the number of zeroes in the exponent, but
- > not the change in value. Has anyone ever encountered this before? I
- > understand the difference is small, but there really shouldn't be any
- > difference at all. Thanks for any help.

>

> S.Thiel beorabor@bemail.com

## Hi,

I have yet encountered the same problem in running a complicated program on a Windows NT IDL and a UNIX Digital alpha IDL.

I can't easily find where programs begin to diverge.

I print the main results:

The first step is:

For Windows:

limit flux= 0.000151933

I realize 50 iterations and then:

max= 0.000129077 min=-0.000131113

For UNIX:

limit flux= 0.000113608

I realize 50 iterations and then:

max= 8.65482e-5 min= -8.74129e-5

The other steps have the same behaviour.

I thought the difference was the 2 kinds of processors:

Intel 32 bits and Dec alpha 64 bits.

The main trouble is you have the same behaviour when you use double floats instead of floats.

--

Christophe Marque