
Subject: Re: IDL 8.2.2 and PLOT with NaN values
Posted by [wlandsman](#) on Wed, 27 Mar 2013 21:10:23 GMT
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Not only are the math errors hardware dependent, but today I came across the fact that it can depend on how the array is ordered.

```
IDL> print,min([2.,!values.f_nan,3.])
      2.00000
IDL> print,min([!values.f_nan,3.,2.])
      NaN
IDL> print,!version
{ x86_64 linux unix linux 8.2.2 Jan 23 2013    64    64}
```

The help for MIN says

"Note: If the MIN function is run on an array containing NaN values and the NAN keyword is not set, an invalid result will occur."

but this should probably read

Note: If the MIN function is run on an array containing NaN values and the NAN keyword is not set, an invalid result **may** occur.

On Wednesday, March 27, 2013 5:39:22 AM UTC-4, Fabien wrote:

```
> Quoting IDL help:
>
>
>
> "The detection of math errors, such as division by zero, overflow, and
>
> attempting to take the logarithm of a negative number, is hardware and
>
> operating system dependent."
>
>
>
> http://www.exelisvis.com/docs/Math\_Errors.html
```
