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Subject: Re: exp() infinity

Posted by [mankoff](#) on Fri, 08 Aug 2008 16:52:33 GMT

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On Aug 8, 12:07 pm, maffie <matthias.demuz...@geo.kuleuven.be> wrote:

> Hi,

>

> Thank you!

> I the meanwhile I found this link, with the exact same question (and

> answer):[http://www.dfanning.com/math\\_tips/underflow.html](http://www.dfanning.com/math_tips/underflow.html)

>

> Is there also a possibility to add double precision (with this "d") to

> an array? And it seems that I have many more problems with my

> calculations, because I get some more messages about underflow and

> overflow.

>

> Thereby 2 more questions:

> - Would there be a solution to solve all these in ones? Like adding a

> statement somewhere to work in double precision in any of the

> calculations?

> - Is there an easy way to see where exactly (in a sequence of

> calculations) where it all goes wrong?

>

> Thank you!

> Matthias

To convert an array to double you can do

```
IDL> dbl = arr*1.0d
```

or slightly faster

```
IDL> dbl = DOUBLE(arr)
```

To find out where the problems are happening, you can use ON\_ERROR or !

EXCEPT and CHECK\_MATH

-k.

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