
Subject: Re: Scientific Notation

Posted by [David Fanning](#) on Mon, 08 Sep 2008 23:25:15 GMT

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Jeff writes:

> have a trouble with a very large number... Comments are welcome!!!

>

> I have the following data subset:

>

> lat, long, data

> -24.2 -56.3 234.4

> -24.1 -56.2 456.5

> -24.2 -56.2 NaN

> -24.5 -56.3 232.4

> -24.7 -52.3 NaN

>

> I need to fill the NaN cells with 1.70171e38. I'm doing this:

>

> index = where(finite(temp, /nan), count)

> if count ne 0 then temp[index] = 1.70141e38

>

> It works fine. Then I'm exporting it to an ascii file (using

> output_to_ascii_doit) and I got:

>

> -24.2 -56.3 234.4

> -24.1 -56.2 456.5

> -24.2 -56.2 *****

> -24.5 -56.3 232.4

> -24.7 -52.3 *****

>

>

> How can I write this right number (1.70171e38) correctly?

Pass OUTPUT_TO_ASCII_DOIT the correct output format. That is to say, something other than the F6.1 you appear to be using. You will need something with enough width to accommodate this number.

Cheers,

David

P.S. I don't know OUTPUT_TO_ASCII_DOIT, but presumably you can pass it some kind of a format, perhaps via a FORMAT keyword.

--

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
