Subject: Re: Comparison operators and floating-point errors
Posted by R.G.Stockwell on Mon, 19 Apr 2010 22:23:07 GMT
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"pp" <pp.penteado@gmail.com> wrote in message
news:54eb565d-1480-43e8-b202-1e938bebb5e6@n20g2000prh.google groups.com...
On Apr 19, 6:24 pm, Ed Hyer <ejh...@gmail.com> wrote:
> On Apr 19, 1:36 pm, Craig Markwardt <craig.markwa...@gmail.com> wrote:
>
>> Right. Try setting NAN=0.0/0.0 or NAN=!values.f_nan.
>
> OK, so for the purpose of masking an array with a binary mask, I had
> been using
>
> MASKED_DATA = DATA / FLOAT(MASK)
>
> and should instead use
>
> MASKED_DATA = (DATA * MASK) / FLOAT(MASK)
>
> in order to ensure that the masked values are all NaN.

> Or

> w=where(~mask,nw)
> if (nw gt 0) then masked_data[w]=!values.d_nan

Definitely good advice. You want people to understand your
code when they read it, and if you want nans, then explicitly
put in nans. There is no way a person can know what is
in your mask array, and know that you are NANing out values.

cheers,
bob