Subject: Re: manipulating structures
Posted by Kenneth P. Bowman on Sun, 08 Apr 2007 14:06:07 GMT
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In article <1175997980.025055.256650@e65g2000hsc.googlegroups.com>, "metachronist" <rkombiyil@gmail.com> wrote:

- > Thanks much! I don't trust myself in such circumstances and hence I
- > agree with Dr.B :-) This prompts me to ask another trivial question,
- > if I may..Since I have lots of missing data, and I do lots of math
- > operations (array ops, fft etc. etc.), will these (NaN) propagate all
- > the way through in such situations? Should I be using them in
- > conjunction with finite statement? Any pointers as to where one oughta
- > be careful with these NaNs?

>

- > Thanks in advance for your time and sharing your experience,
- > ~rk

Many IDL functions include /NAN keywords to skip NaNs in operations (TOTAL, MEAN, etc.). In other cases, you will have to find the good data with WHERE(FINITE(...), COUNT = count).

There is one special case that you have to watch out for when using TOTAL with the /NAN keyword. If *all* of the elements are NaNs, the result returned is not a NaN, but a zero.

I think this is a serious implementation bug because it renders the /NAN keyword useless in most circumstances, but I guess we are stuck with it.

Inconsistently, this happens with TOTAL, but not with MEAN

IDL> print, mean(x, /nan)
NaN

Ken