Subject: Re: manipulating structures
Posted by Kenneth P. Bowman on Sun, 08 Apr 2007 18:40:36 GMT
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In article <MPG.2082e11919d147fa989f1c@news.frii.com>, David Fanning <news@dfanning.com> wrote:

> Kenneth P. Bowman writes:

>

- >> 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.

>

> Has this been reported to ITTVIS, Ken?

We discussed this in this group several years ago, and *I think* I had some communication with them about this. The response was to add a note in the TOTAL documentation pointing out this behavior.

The rules for IEEE arithmetic say that the result of any operation involving a NaN is a NaN. That is not true in the case of TOTAL. If you sum an array that is all NaNs, the result is zero.

Ken