Subject: Re: MEDIAN and double? Posted by Craig Markwardt on Sat, 18 May 2002 02:49:01 GMT View Forum Message <> Reply to Message

"Pavel A. Romashkin" <pavel\_romashkin@hotmail.com> writes:

> I always thought that MEDIAN in Double is just

> print, (the\_data[sort(the\_data)])[n\_elements(the\_data)/2]

That works for a single number, but the nice part about MEDIAN is that it can be applied with a sliding window, as in,

ysmooth = median(y, window)

But, if your data have double precision then YSMOOTH is not always high enough precision to respect the original data. Or, at least, mine didn't.

For example, consider:

IDL> print, median(1d + 2.4d-9 + [0,0]) - 10.00000

Whoops!

Craig

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response