Subject: Re: Calculating mean (was mean and sdev) Posted by nospam on Thu, 05 Mar 1998 08:00:00 GMT

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In article <34FE5D52.70D510F8@linmpi.mpg.de> Kevin Ivory <Kevin.Ivory@linmpi.mpg.de> writes:

- > Kevin Spencer wrote:
- >> they get rid of stdev in the first place? And calculating the mean
- >> is trivial; just use total(x)/n\_elements(x).

>

- > It is not as trivial as that. If your array contains NaNs, you will
- > always get a NaN as a result. In many cases you will want to have
- > the mean of the finite values.

I just looked at the source for moment in IDL 5.0.2, and it appears that it does not correctly handle NaNs.

```
TypeX = SIZE(X)

nX = TypeX[TypeX[0]+2]

Mean = DATOTAL(X, Double = Double) / nX
```

the function DATOTAL just calls total() and massages the return type. The documentation for total() says that you have to set /NAN to have it treat NaNs as missing data, and the call to total does not do that, nor does it remove the NaNs from the count of elements.

scott

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Scott Stuart stuart at II mit edu