
Subject: Re: Finding NaNs in arrays - Strange outcome
Posted by [David Fanning](#) on Sat, 05 Dec 2015 14:38:40 GMT
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dmfl0590@gmail.com writes:

```
>
> Hello
>
> I have a 3D array A ( A  FLOAT   = Array[480, 480, 160]). I wanted to check for NaNs so I
had split one 2D array as follows:
>
> A1 = total(A[0:79, 0:79,25])
> A2 = total(A[80:159,80:159,25])
> A3 = total(A[160:239,160:239,25])
> A4 = total(A[240:319,240:319,25])
> A5 = total(A[320:399,320:399,25])
> A6 = total(A[400:479,400:479,25])
>
> print, 'A1', A1
> print, 'A2', A2
> print, 'A3', A3
> print, 'A4', A4
> print, 'A5', A5
> print, 'A6', A6
>
> print, 'total',total(A[*,*,25])
>
> PRINT, 'sum',A1+A2+A3+A4+A5+A6
>
> I got the following print results:
> A1    682066.
> A2 1.51149e+007
> A3 9.41048e+006
> A4 9.07705e+006
> A5 1.18558e+007
> A6    62705.1
> total      NaN
> sum 4.62031e+007
>
>
> Why the total(A[*,*,25]) gave me NaN? Isn't the same thing as the sum?
>
> Can anyone help with this?
```

The way to find NaNs in arrays is to use the Finite function:

http://www.idlcoyote.com/math_tips/nans.html

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")
