
Subject: NaN problem in integer arrays

Posted by [galaxytraveler42](#) on Thu, 17 Oct 2013 15:44:46 GMT

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I use NaN's a lot in my arrays in place of missing or bad data points, but I have problems with it everytime my arrays are integer.

An example of a test program:

```
x=[0,1,2,0]
```

```
s=where(x EQ 0,count)
```

```
if count gt 0 then x(s)!=Values.F_NAN
```

```
help, X
```

```
> X          INT      = Array[4]
```

```
print, X
```

```
> % Stop encountered: test.pro
```

```
> % Program caused arithmetic error: Floating illegal operand
```

And if I change it to a long array:

```
x=long(x)
```

```
then I get:
```

```
> X          LONG      = Array[4]
```

```
> -2147483648      1      2 -2147483648
```

```
> % Program caused arithmetic error: Floating illegal operand
```

But if I do this with a floating array.

```
x=[0.,1.,2.,0.]
```

```
Then it works just fine
```

```
> X          FLOAT      = Array[4]
```

```
>      NaN      1.00000      2.00000      NaN
```

I can see that other people have had troubles with this and explained it as a windows compiler errors, but I have a mac computer.

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

Do anyone know if there is a solution for this?
