
Subject: Mean and NaNs

Posted by [Fabzi](#) on Wed, 06 Feb 2013 16:16:35 GMT

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Hi IDLers,

I know I have been annoying with NaNs lately, but is the following "Floating illegal operand" supposed to happen???

```
IDL> print, !VERSION
```

```
{ x86_64 linux unix linux 8.2.2 Jan 23 2013    64    64}
```

```
IDL> data = FINDGEN(10,10,10)
```

```
IDL> data[5,5,*] = !VALUES.F_NAN
```

```
IDL> help, mean(data, /NAN)
```

```
<Expression>  FLOAT    =    499.444
```

```
IDL> help, mean(data, DIMENSION=3, /NAN)
```

```
<Expression>  FLOAT    = Array[10, 10]
```

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

Which is related to:

```
IDL> print, mean(!VALUES.F_NAN)
```

```
NaN
```

```
IDL> print, mean(!VALUES.F_NAN, /NAN)
```

```
-NaN
```

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

Is it my job to catch those cases or is something wrong?

Thanks,

Fabien
