
Subject: Re: where() and IEEE NaN

Posted by [Vincenzo Andretta](#) on Sat, 06 Nov 1999 08:00:00 GMT

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Try:

```
WHERE(FINITE(array,/NaN) eq 1)
```

Example:

```
IDL> array=[1.0,!VALUES.F_Infinity,!VALUES.F_Infinity,!VALUES.F_NaN]
```

```
IDL> print,where(finite(array) eq 0)
```

```
1      2      3
```

```
IDL> print,where(finite(array,/NaN) eq 1)
```

```
3
```

```
IDL> print,where(finite(array,/infinity) eq 1)
```

```
1      2
```

Note that IDL seems to be able to deal with "infinities", at least to some extent:

```
IDL> print,min(array),max(array)
```

```
-Inf      Inf
```

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

```
IDL> print,1./array
```

```
1.00000  0.00000  -0.00000      NaN
```

I wouldn't rely on this behaviour, but it is conceivable one might want to know where NaN values are, while ignoring infinities.

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P.S:

```
IDL> help,/structure,!version
```

```
** Structure !VERSION, 5 tags, length=80:
```

```
ARCH      STRING  'alpha'
```

```
OS        STRING  'OSF'
```

OS_FAMILY	STRING	'unix'
RELEASE	STRING	'5.2'
BUILD_DATE	STRING	'Oct 30 1998'
