
Subject: Re: ATAN inconsistencies

Posted by [Michael Werger](#) on Mon, 15 Nov 1999 08:00:00 GMT

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"Kenneth P. Bowman" wrote:

```
>
> Here's a platform dependency that took me quite a while to track down.
>
> The SGI (IRIX) version of IDL returns 0.0 when you try to take the
> arctan(0/0). The Alpha version (properly) returns a NaN.
>
> Ken Bowman
>
> IDL Version 5.1 (IRIX mipseb). Research Systems, Inc.
> IDL> print, atan(0.0, 0.0)
>    0.00000
>
> IDL Version 5.1 (OSF alpha). Research Systems, Inc.
> IDL> print, atan(0.0, 0.0)
>    NaNQ
> % Program caused arithmetic error: Floating illegal operand
```

IDL 5.2 on Solaris 2.7:

```
IDL> print, atan(0.0, 0.0)
    0.00000
```

... Any comments about the proper handling? ;-)

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Michael Werger

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