
Subject: ATAN inconsistencies

Posted by [bowman](#) on Fri, 12 Nov 1999 08:00:00 GMT

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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

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Replace AT with @
