Subject: Re: Interesting Filled Contour Problem
Posted by Carsten Lechte on Tue, 17 Apr 2012 11:54:27 GMT
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On 17/04/12 05:21, Craig Markwardt wrote:
> NAN OP X
> will always result in a value of NAN, for all operations OP and for all operands X

Unless that OP is a comparison operator; then the result is always
false, i.e. NAN eq NAN is false etc.

> Strangely,
> NAN< 0
> produces NAN, so apparently NAN is a negative number (!!!).

You jest, but what is happening is this:

```
IDL> print, asdf, asdf GT 0, asdf LT 0, asdf < 0, asdf > 0
      -1.0000000          -NaN           NaN       1.0000000
   0   0   0   1
   1   0   0   0
      -1.0000000          -NaN           NaN       0.0000000
       0.0000000       0.0000000       0.0000000       1.0000000
```

It seems like "asdf < 0" zeros those elements WHERE(asdf gt 0), i.e.
element 3, while "asdf > 0" uses the COMPLEMENT of WHERE(asdf gt 0),
i.e. [0,1,2], instead of zeroing WHERE(asdf LT 0), i.e. [0].

Unexpected, inconsistent, yet conforming to IEEE.

chl