
Subject: Numbers from nowhere?

Posted by [Conor](#) on Fri, 15 Feb 2008 15:08:24 GMT

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I'm just curious:

```
print,3.3,format='(f30.28)'  
3.2999999523162841796875000000
```

Obviously float is only good to ~6 decimal places, but IDL will still print out additional digits. It seems that it does reach a point where IDL will only print out zeroes. I'm just curious - where do these extra digits come from? Does it come from rounding errors converting binary to decimal? Or does it come from some other nefarious location?
