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Subject: Re: BUG in IDL 4.0a PowerMac  
Posted by [rivers](#) on Fri, 05 Apr 1996 08:00:00 GMT  
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In article <4k3mro\$72p@newsreader.wustl.edu>, Paritosh Dhawale <paritosh> writes:

```
> Hello,
>
> I get this dangerous bug rather randomly running
> IDL 4.0a on a PowerMac 7500. Any one with similar
> problems? IDL fails to return the correct answer
> in statement 4.
>
> IDL> help,yy
> YY          FLOAT    =    35.0000
> IDL> help,last_row
> LAST_ROW    FLOAT    =    89.0000
> IDL> print,last_row-yy
>    54.0000
> IDL> print,fix(last_row-yy)
>    53
> IDL> print,fix(last_row)-fix(yy)
>    54
```

You have really not provided sufficient information. If you created YY and LAST\_ROW by direct assignment, i.e.  
YY = 35.0  
LAST\_ROW = 89.0

then I agree that there is a bug. All machines which I know of represent small floating point integers exactly, and there should be no roundoff error on subtraction. However, if YY or LAST\_ROW are computed, then they might be slightly different than the values they appear to have, and you are just seeing normal roundoff problems. Whenever you are trying to convert a float which might have some slight roundoff error to an integer like this you should use a function which returns the nearest integer, not the integer value after discarding fractional parts.

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