
Subject: Re: idl system variable for overflow/underflow errors
Posted by [Michael Galloy](#) on Wed, 07 Sep 2011 15:20:32 GMT
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On 9/7/11 9:06 AM, simona bellavista wrote:

> Hi all,
>
> I am trying to debug a program that give overflow errors and I get a
> printout that says "Program caused arithmetic error: Floating
> overflow". I would like to know if there is a system variable that
> registers that an overflow has happened, something like !overflow = 1
> if an overflow has occurred, otherwise zero.
>
> Thanks a lot

Look at the CHECK_MATH routine. You can call it to find what types of math errors have happened since the last time you called it.

Also, there is a system variable, !EXCEPT, that lets you specify the level of detail in your overflow error message. Robin Wilson recently had a blog post about it:

[http://blog.rtwilson.com/get-more-detailed-messages-for-math s-errors-in-idl/](http://blog.rtwilson.com/get-more-detailed-messages-for-math-s-errors-in-idl/)

Note that CHECK_MATH and !EXCEPT interact with each other as described in the CHECK_MATH documentation.

Mike

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Subject: Re: idl system variable for overflow/underflow errors
Posted by [Brian Wolven](#) on Wed, 07 Sep 2011 15:20:58 GMT
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You might look at the help for the check_math function; that probably has the info you need.

Subject: Re: idl system variable for overflow/underflow errors
Posted by [simona bellavista](#) on Wed, 07 Sep 2011 15:21:57 GMT
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I looked a little bit into it and I found out I can use the function `check_math()` for this task.
I write it here in case this can help somebodyelse in future

On Sep 7, 5:06 pm, simona bellavista <afy...@gmail.com> wrote:

> Hi all,
>
> I am trying to debug a program that give overflow errors and I get a
> printout that says "Program caused arithmetic error: Floating
> overflow". I would like to know if there is a system variable that
> registers that an overflow has happened, something like !overflow = 1
> if an overflow has occurred, otherwise zero.
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> Thanks a lot

Subject: Re: idl system variable for overflow/underflow errors
Posted by [simona bellavista](#) on Wed, 07 Sep 2011 15:26:31 GMT
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Yeah, thanks you a lot
I didn't see your replies and answered to myself :D

On Sep 7, 5:20 pm, Brian Wolven <brian.wol...@gmail.com> wrote:

> You might look at the help for the `check_math` function; that probably has the info you need.
