
Subject: Re: compilation of subroutines without resetting calling sequence
Posted by [Kenneth P. Bowman](#) on Mon, 05 Jul 2010 20:21:34 GMT
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In article

<5a442a1b-8386-4d8e-807e-cb2890f75907@7g2000prh.googlegroups.com>,
Ed Hyer <ejhyer@gmail.com> wrote:

- > OK, compiled procedure 'A' calls function 'B', but spends most of its
- > time in functions 'C-Z'.
- >
- > Function 'B' has a math error somewhere, which I am trying various
- > things to get rid of. By setting !EXCEPT=2, I have lots of information
- > on where the screwup is occurring.
- >
- > Once I get the spew from !EXCEPT=2, I manually interrupt the program,
- > which is at that point working through functions 'C-Z'. I make changes
- > to subroutine 'B', recompile it, and then '.continue' to see if the
- > changes worked next time through subroutine 'B'.
- >
- > Except that doesn't work. '.compile' returns no exception, and
- > '.continue' works like one expects, but it won't actually recompile
- > the routine.
- >
- > So, evidently it's the top-level routine that must be recompiled in
- > order to get changes to subroutines into effect, but if someone wants
- > to provide a more coherent explanation of what IDL is doing here, I'd
- > love to hear it.

Instead of just setting !EXCEPT (which is often all that is needed in simple cases), use CHECK_MATH in B to check the math error status and stop execution inside function B. (Don't forget to read the notes at the bottom of the CHECK_MATH help page.)

Then, if you recompile B, IDL will return to the top level and you can run the program again.

Ken Bowman
