
Subject: Re: Debugging a widget program (someone else's)
Posted by [Michael Galloy](#) on Thu, 09 May 2013 23:14:42 GMT
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On 5/9/13 3:03 pm, wlandsman wrote:

> I'm looking for generic advice on how to debug a large widget
> program. Right now I press on a button and it displays an
> incorrect value. But I don't have any idea where to insert a
> breakpoint in the thousands of lines of code to debug the problem.
> Yes, I could look at the widget creation section for the button, then
> look for the event handler, and then try to follow the hierarchy of
> procedures until I find the function doing the calculations.
>
> What I would really like is some sort of procedure event log, that
> could show me in order the procedures and functions that are called
> after I press the button. Sort of like a reverse traceback that
> tells me where I am going rather than how I got where I am ;-)
>
> I vaguely recall reading about something like this, but maybe it
> wasn't in IDL.
>
> Thanks, --Wayne
>

You could use something like my logging framework, but that would require putting a line in each routine you cared about. Something as simple as:

```
mg_log, ", /debug
```

When the widget program was initialized, you would want to start up the logging system with something like:

```
mg_log, level=5, filename='widget.log'
```

You can change the level to less than 5 to turn off the /DEBUG messages.

More information at:

```
http://michaelgalloy.com/2011/11/17/logging.html
```

Mike

--

Michael Galloy

www.michaelgalloy.com

Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)

Research Mathematician

Tech-X Corporation

Subject: Re: Debugging a widget program (someone else's)

Posted by [wlandsman](#) on Fri, 10 May 2013 03:52:09 GMT

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Thanks Mike, the logging framework looks great for development of large projects. In my case, I was able to use PROFILER to list all the procedures used after pressing the widget button - though in alphabetical order rather than in the order they are called. But among the ~200 procedures listed, I was able to spot and debug the likely culprit. Cheers, --Wayne

On Thursday, May 9, 2013 7:14:42 PM UTC-4, Mike Galloy wrote:

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> Mike
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