Subject: Re: IDL 6.3 segmentation fault Posted by David Fanning on Thu, 01 Jun 2006 15:39:37 GMT View Forum Message <> Reply to Message

shd writes:

- > I wanted to post this as a reply to a thread on this group called
- > 'How to debug seg fault' but it's past the 30 day mark. The author of
- > that thread experienced something similar.

>

- > I'm getting a bit of odd behavior from my widget program on Ubuntu
- > 5.10. My GUI has a 'File' menu and a toolbar, both of which contain an
- > 'Exit' item which execute the exact same code:

>

- > ============
- > pro _exit, top
- > widget_control, top, /DESTROY
- > end
- > ============

>

- > I'm working from the command-line interpreter, not the IDE. Here's the
- > wierdness:

>

- > I compile and launch my program and press the 'Exit' button on the
- > toolbar. When I try to re-launch the program, my GUI doesn't come up
- > and IDL exits with only a 'Segmentation fault' message. However, if I
- > exit my GUI by simply killing the window (clicking the 'X' on the
- > border), the seg. fault doesn't occur. Also, if I exit the GUI by
- > selecting 'Exit' from the 'File' menu, the seg. fault doesn't occur.
- > So I launched the IDE to step through the program and it got much
- > stranger. I can't reproduce the segmentation fault from the IDE no
- > matter how I exit my GUI.

>

> Any else seen something like this?

Strangely written widget program!

This is not an event handler, so I presume it is a KILL_NOTIFY callback. But, assigned to two different widgets!? I suggest you are not killing what you *think* you are killing. :-)

Cheers,

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: IDL 6.3 segmentation fault Posted by shd on Thu, 01 Jun 2006 15:55:44 GMT

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```
David Fanning wrote:
 Strangely written widget program!
> This is not an event handler, so I presume it is a KILL_NOTIFY
> callback. But, assigned to two different widgets!? I suggest
> you are not killing what you *think* you are killing. :-)
> Cheers,
>
> David
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
<rereads his post... smacks his forehead>
Ok, I see the confusion. Clarification:
pro _exit, top
 widget control, top, /DESTROY
end
pro action_event, event
 widget_control, event.id, GET_UVALUE=action
 case action of
   'exit': _exit, event.top
 endcase
end
pro build_gui
 ; Create 'File' menu.
 wmenu = widget button(mbar, VALUE='File', /MENU, $
   EVENT_PRO='action_event')
 w = widget_button(wmenu, VALUE='Exit', UVALUE='exit', /SEPARATOR)
 ; Create toolbar.
```

I probably should have just said that in the first place, huh?

Subject: Re: IDL 6.3 segmentation fault Posted by David Fanning on Thu, 01 Jun 2006 16:18:46 GMT

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shd writes:

```
> Ok, I see the confusion. Clarification:
> pro exit, top
    widget control, top, /DESTROY
> end
> pro action_event, event
    widget_control, event.id, GET_UVALUE=action
>
>
    case action of
>
>
      'exit': _exit, event.top
>
>
    endcase
> end
> pro build_gui
>
>
   ; Create 'File' menu.
    wmenu = widget_button(mbar, VALUE='File', /MENU, $
>
     EVENT PRO='action event')
>
>
    w = widget_button(wmenu, VALUE='Exit', UVALUE='exit', /SEPARATOR)
>
>
    : Create toolbar.
    wtb = widget_base(tlb, UNAME='toolbar', /ROW, /TOOLBAR, $
>
     EVENT_PRO='action_event')
```

Well, poorly named widget program, then. :-)

In any case, I don't see anything (except needless indirection) that causes me any worries. Perhaps you are not calling the _EXIT procedure you *think* you are calling. Easily done, I think, with this kind of naming scheme.

Cheers,

David

--

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Subject: Re: IDL 6.3 segmentation fault Posted by shd on Thu, 01 Jun 2006 17:13:32 GMT View Forum Message <> Reply to Message

David Fanning wrote:

- > Well, poorly named widget program, then. :-)
- > In any case, I don't see anything (except needless indirection) that
- > causes me any worries. Perhaps you are not calling the _EXIT procedure
- > you *think* you are calling. Easily done, I think, with this
- > kind of naming scheme.

I agree. My snippet suggests that the program name is 'build_gui', but that's not the case. I also posted generic names for my procedures because I'm sure that my actual naming scheme (which consists of unique names) has nothing to do with this issue. I've checked that. I agree that the indirection was needless so I dropped the '_exit' procedure and replaced it with the 'widget_control' call, but I'm still experiencing the crash.

It really isn't that big a deal, just a mild annoyance which is easily avoided (ie.: don't use the toolbar button). I just thought it was

strange that IDL doesn't crash until I try to restart the program and only from the command-line interpreter, not from the IDE.

Thanks for the suggestions.

P.S. Good work on the website. It's been a great resource.

Subject: Re: IDL 6.3 segmentation fault Posted by David Fanning on Thu, 01 Jun 2006 17:22:59 GMT View Forum Message <> Reply to Message

shd writes:

- > I agree. My snippet suggests that the program name is 'build qui', but
- > that's not the case. I also posted generic names for my procedures
- > because I'm sure that my actual naming scheme (which consists of unique
- > names) has nothing to do with this issue. I've checked that. I agree
- > that the indirection was needless so I dropped the '_exit' procedure
- > and replaced it with the 'widget_control' call, but I'm still
- > experiencing the crash.

>

- > It really isn't that big a deal, just a mild annoyance which is easily
- > avoided (ie.: don't use the toolbar button). I just thought it was
- > strange that IDL doesn't crash until I try to restart the program and
- > only from the command-line interpreter, not from the IDE.

I think it's strange, too. :-)

And if all is as you say it is, I would lean more toward "bug" than "error", especially if it is reproducible.

> P.S. Good work on the website. It's been a great resource.

Thanks.:-)

Cheers.

David

David Fanning, Ph.D.

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