
Subject: Re: How to kill a procedure?

Posted by [R.Bauer](#) on Mon, 07 Dec 1998 08:00:00 GMT

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Med Bennett wrote:

> I am wondering how to kill an errant IDL procedure in Windows 95 without
> killing the whole application and starting over. I sometimes make a
> programming error which causes a procedure to go into an infinite loop.
> It seems like I used to be able to hit ctrl-C in older versions of IDL,
> at least in procedures that had some sort of print statement in them, to
> exit out of a procedure. But recently when this has happened, nothing
> seems to work and I have to hit ctrl-alt-delete and kill IDL entirely,
> which is very annoying, especially if I have unsaved variables. Any
> suggestions would be greatly appreciated!
>
> Thanks in advance,
>
> Med Bennett
> mbennett @ indra.com
> IDL 5.0.2
> Windows95
> Pentium-133, 48 MB RAM

My first Idea was to start first a widget in timer mode and if key pressed
to send a breakpoint to the calling routine.

Unfortunately I don't know why the eventhandler isn't accessed. Therefore I
added widget_event.

May be David F. is able to solve this in a better way ?!

Normally if you use wait, xx you are able to break with CTRL BREAK a running
process.

My solution is at the moment.

PRO test

```
result=x_breaker()  
FOR i=0!,100000! DO BEGIN  
    res=WIDGET_EVENT(result.base,/nowait)  
    WAIT,0.01  
    PRINT,i  
ENDFOR  
END
```

result=x_breaker() starts a mini widget with the break button

You have to set a wait in your code

res=WIDGET_EVENT(result.base,/nowait) will switch to the widget.

If Break is pressed a breakpoint will be send to the routine and it will stop.

```
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; This software may be used, copied, or redistributed as long as it is not
; sold and this copyright notice is reproduced on each copy made. This
; routine is provided as is without any express or implied warranties
; whatsoever.
;
;+
; NAME:
; x_breaker
;
; PURPOSE:
; This widget procedure is used to break a routine by sending a breakpoint
;
; CATEGORY:
; PROG_TOOLS/WIDGETS
;
; CALLING SEQUENCE:
; x_breaker
;
;
; EXAMPLE:
; PRO test
;   result=x_breaker()
;   FOR i=0I,100000I DO BEGIN
;     res=WIDGET_EVENT(result.base,/nowait)
;     WAIT,0.01
;     PRINT,i
;   ENDFOR
; END
;
;
; MODIFICATION HISTORY:
; Written by: R.Bauer (ICG-1), 1998-Dec-07
;-
```

```
PRO x_breaker_event,ev
  WIDGET_CONTROL, ev.id, get_uval=cmd
  WIDGET_CONTROL, ev.top, get_uval=map
  WIDGET_CONTROL, map.base, get_uval=struct
  IF SIZE(cmd,/type) NE 8 THEN BEGIN
```

```
CASE cmd[0] OF
  'BREAK': BEGIN
    HELP,call=call
    line=LONG((STR_SEP((STR_SEP(call[1],')')[1],'))[0])
    file=(STR_SEP((STR_SEP(call[1], '<'))[1],'))[0]
    BREAKPOINT,file,line
  END
ELSE:
ENDCASE
ENDIF
END
```

```
FUNCTION x_breaker
  base=WIDGET_BASE(col=3,title='Break a running Script')

  id_break=WIDGET_BUTTON(base,Value='BREAK',UVALUE='BREAK',/AL
  IGN_CENTER,event_pro='x_breaker_event')

  result={base:base}
  WIDGET_CONTROL,base,set_uval= result,/realize , /XMANAGER_ACTIVE_COMMAND
  RETURN,result
END
```

Regards

R.Bauer
