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=0I,100000I 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=01.1000001 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
```