
Subject: Re: cancel button to stop w/in an iterative loop?
Posted by [R.Bauer](#) on Wed, 10 Mar 1999 08:00:00 GMT
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Hi,

an example is included.
try x_slider_example.

After you pressed break a breakpoint is set into the running script.
It breaks then itself.

R.Bauer

```
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; 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_slider
;
; PURPOSE:
; This widget function is used to place a slider in front to show steps of
; actions like an increment of a do loop.
; The break key is used to set if pressed a breakpoint into the source code.
; This widget don't use the xmanager
;
; CATEGORY:
; PROG_TOOLS/WIDGETS
;
; CALLING SEQUENCE:
; result=x_slider(minimum,maximum,[title=title],[/BREAK])
;
; INPUTS:
; minimum: the start value
; maximum: the end value
;
; KEYWORD PARAMETERS:
; title: the title for the base
; break: if set the break key is defined - if pressed a breakpoint
; will be generated where x_slider_widget_event was started
;
```

```
; OUTPUTS:
; The result is a structure:
;   base: the base id
;   slider: the slider id
;
; EXAMPLE:
; result=x_slider(0,10000)
; widget_control,result.slider,set_val=100
; widget_control,result.base,/destroy
;
;
;
; PRO x_slider_example
;   result=x_slider(0,1000,title='CC',/break)
;   FOR I=0,10 DO BEGIN
;     WAIT,1
;     WIDGET_CONTROL,result.slider,set_val=100*I
;     X_SLIDER_WIDGET_EVENT,result
;   ENDFOR
;
;   WIDGET_CONTROL,result.base,/destroy
;
; END
;
; MODIFICATION HISTORY:
; Written by: R.Bauer (ICG-1), 1998-Nov-18
; 1998-12-02: keyword break added
;-
```

```
PRO x_slider_example
  result=x_slider(0,1000,title='CC',/break)
  FOR I=0,10 DO BEGIN
    WAIT,1
    WIDGET_CONTROL,result.slider,set_val=100*I
    X_SLIDER_WIDGET_EVENT,result
  ENDFOR
  WIDGET_CONTROL,result.base,/destroy
END
```

```
PRO x_slider_widget_event,x_slider_struct
  tagname=STRUPCASE('break')
  tags=TAG_NAMES(x_slider_struct)
  a=WHERE(tags EQ tagname,count)
  IF count GT 0 THEN BEGIN
    HELP,call=call
    line=LONG((STR_SEP((STR_SEP(call[1],(' '))[1],')))[0])
    file=(STR_SEP((STR_SEP(call[1],('<'))[1],('()')[0]
    x_slider_struct.file=file
```

```

    x_slider_struct.line=line
    WIDGET_CONTROL,x_slider_struct.base,set_uval= x_slider_struct
    res=WIDGET_EVENT(x_slider_struct.break,/nowait)
ENDIF
END

PRO x_slider_manager_break,event
    WIDGET_CONTROL,event.top,get_uval=uval
    BREAKPOINT,uval.file,uval.line
END

FUNCTION x_slider,minimum,maximum,title=title,BREAK=BREAK
    base=WIDGET_BASE(row=2,title=title)
    IF KEYWORD_SET(break) THEN id_break=WIDGET_BUTTON(base,Value='BREAK',$
        UVALUE='BREAK',/ALIGN_CENTER,EVENT_PRO='x_slider_manager_bre ak')
    base2=WIDGET_BASE(base,col=3)
    IF N_ELEMENTS(minimum) EQ 0 THEN minimum=0
    IF N_ELEMENTS(maximum) EQ 0 THEN maximum=100
    id_label=WIDGET_LABEL(base2,value=STRTRIM(STRING(minimum),2) )
    slider=WIDGET_SLIDER(base2,minimum=minimum,maximum=maximum)
    id_label=WIDGET_LABEL(base2,value=STRTRIM(STRING(maximum),2) )
    WIDGET_CONTROL,base,/realize,/timer
    result={base:base,slider:slider,line:0l,file:''}
    WIDGET_CONTROL,base,set_uval= result
    IF KEYWORD_SET(break) THEN result=CREATE_STRUCT(result,'break',id_break)
    RETURN,result
END

```
