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Subject: Re: widget\_control from call\_external  
Posted by [dominic](#) on Mon, 05 Mar 2001 07:54:24 GMT  
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davidf@dfanning.com (David Fanning) writes:

> Well, this will be difficult unless you can call your  
> C program in "chunks", or in some other way interrupt  
> it. It might be easier if you just know, in general,  
> how long it takes. Then you can set a "kitchen timer"  
> sort of progress indicator. As long as the cake is  
> baked by the time the timer goes off, no one seems  
> to care. :-)

That sounds like a great idea.

I tried to implement that, but the timer stops ticking!  
Seems like xmanager doesn't accept events until the  
call\_external returns... There's a t\_test.pro for illustration.

Oh yes, the other thing I tried is to fire up a status line  
from within the C-code with IDL\_ExecuteStr(). Works just fine  
EXCEPT for the annoying messages:  
% Temporary variables are still checked out - cleaning up...  
for every IDL\_ExecuteStr().

Did I miss something?

pro t\_test\_event, ev

```
widget_control, ev.id, get_uvalue=uval
widget_control, ev.top, get_uvalue=struct

stat = struct.status
curr = struct.current
evno = struct.t_evno

case uval of
'Done' : widget_control, ev.top, /destroy
'Run' : begin
    widget_control, stat, timer=1
    JUNK = call_external('t_test.so', 't_test', curr, /unload)
end
'Timer' : begin
    evno = evno +1
    print, 'Timer event no ', evno
    widget_control, stat, timer=1
    widget_control, ev.top, $
        set_uvalue={status:stat, current:curr, t_evno:evno}
```

```

    end

else : begin ; should never happen
    widget_control, ev.id, get_value=val
    print,'unknown event with value ',val
    widget_control, ev.top, /destroy
end
end

end

pro t_test

old    = 0L
current = 0L
t_evno  = 0
a = widget_base(/col)
b = widget_button(a,value='Run',uval='Run',/frame)
status = widget_label(a,value= $
    string(format='(A8,I3,1x,A1)', 'Status: ',0,'%'),uvalue='Timer')

c= widget_button(a,value='Done',uval='Done',/frame)

widget_control, a, /realize

widget_control,status,timer=1

widget_control, a, $
    set_uvalue={status:status, current:current, t_evno:t_evno}

xmanager, 't_test',a

end

```

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