
Subject: Re: Recursive Function Program in IDL
Posted by [JD Smith](#) on Wed, 14 Dec 2005 21:06:08 GMT
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On Wed, 14 Dec 2005 09:02:17 -0700, David Fanning wrote:

> Folks,
>
> Does anyone have a handy recursive function that does something neat?
> Someone is asking, and I don't have time to work on this. He (apparently)
> can't get to the newsgroup.

How about one to get all the widget ID's on a given widget tree:

```
;; descend heirarchy of tlb .. return entire tree's widget_ids in 'list'
pro treedesc, curin,list
  cur=curin          ;ensure local copy of current widget
  if cur ne 0 then begin
    if n_elements(list) eq 0 then list=cur else list=[list,cur]
    cur=widget_info(cur,/CHILD) ;descend one level
    while cur ne 0 do begin ; find siblings... descend their subtrees
      treedesc,cur,list      ; recurs on sibling
      cur=widget_info(cur,/SIBLING)
    endwhile
  endif
end
```

I think Mark rewrote this and stuck it in his library too.

JD
