Subject: Tree diagrams for widget diagnostic tool
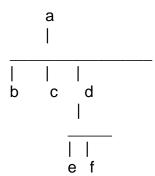Posted by cool on Fri, 30 Jun 1995 07:00:00 GMT

Hi. I'm wondering if anyone has written an IDL routine to draw tree diagrams,
e.g.

```
                 a
                 |
         _____
         |    |   |
         b    c   d
                  |
                 _____
                 | |
                 e  f
```

 except with neat boxes around each member...

Reason being that I've written a widget diagnostic tool that breaks down the
current widget list held by XMANAGER into a parent/child/siblings etc tree.
From here, I pull out all the event handlers, and assign a toggle button to
each event handler such that I can intercept and interrogate any/all events
in any currently active widgets, and capture for display values/uvalues etc,
before passing the event onto its intended destination.

Having done all the recursive work to generate the widget family tree, I've
developed a crude tree diagram in a window, but I can either get the boxes
laid out nicely with joining lines that sometimes cross, or joining lines
that don't cross, but the boxes are a tad jumbled. I've also had the
matching box on the tree diagram "lite up" when a button is pressed.

It'd be nice to find an IDL procedure that would take as input some tree
structure, or perhaps a Fortran routine that would return relative
XY coordinates of each member of the family. Even a reference to a good
text book on this complex subject would be handy.

Hope someone can help!


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 Andrew Cool                     | andrew.cool@dsto.defence.gov.au
 Information Technology Officer          |
 High Frequency Radar Division          | phone: +61 8 259 5199
 Defence Science and Technology Organization | fax:   +61 8 259 6673
 PO Box 1500 Salisbury, South Australia 5108 |
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