
Subject: Re: Top-level bases

Posted by [David Fanning](#) on Thu, 23 Sep 2004 07:42:26 GMT

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Andrew Rodger writes:

```
> If I have a pop-up window that was started from within an event
> handler for the primary widget, and I am using the primary widgets
> event function code to handle the events (see below), how do I
> maintain the link to my state data when the pop-up access the event
> function code?
>
> widget_control,'air',tlb,/realize
> xmanager,'air',tlb,event_handler='the same piece of code it is already
> in',/no_block
```

Typically, we put all the information required to run our widget program into an info or state structure. Then, we often pass this structure around in the UValue of the top-level base. But, in this situation you have **two** top level bases, although there is a relationship between them: you called one from the other. So, in principle, you could pass whatever the second TLB needed from the first when you call it. That is to say, you could make a copy of the info structure and pass **that** to the second TLB to store in the UValue of its TLB.

But now you have two copies of the info structure. Probably a bad idea.

So, alternatively, you could make one copy of the info structure, and store a pointer to that info structure in the UValue of any TLB that required the info structure information.

That is what I would do in this case. Because a pointer is very light weight, you can make hundreds of copies and pass them out like candy. They all point to the same piece of information. :-)

Cheers,

David

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Subject: Re: Top-level bases

Posted by [algosat](#) on Fri, 24 Sep 2004 00:27:56 GMT

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>
> So, alternatively, you could make one copy of the info
> structure, and store a pointer to that info structure in
> the UValue of any TLB that required the info structure
> information.

Hi David,

thanks for the advice. I suspected it was going to involve pointers.

I did manage to get around the problem by creating a function (yesterday) that allows the user to find the widget_id of any realized widget that is being managed by xmanager. The only input information needed is the uname of the widget (most of us will always remember the unames).

I have found that I dont then need to pass any information, regarding the TLB, to the compound widget (read pop-up). I only need to wait till I am in the event routine for my pop-up and use the function to get the widget id of the widget holding the state info. Update the info and then return. In this manner it does not matter if I lose a link, or TLB id, and since the TLB is always realized, I can always link back to it no matter where I am in the code. If this sounds of interest to you I can post a copy of the code tomorrow. It was a fix to a problem that was driving me nuts and where I was hoping I wouldnt need to use pointers (not that I dont like pointers).

Cheers
Andrew
