Subject: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by forlano on Sat, 06 May 2006 00:06:00 GMT

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Hello,

here is a new variant of a code already posted in this forum. We have an arrayctrl with two column of which the second one contains a composite embedded ctrl (editint+label). The click on the button start the scan of the rows to get their value.
I would like to get some hint for the followomg tasks:
1. how to GET the data of editint in row 'i' ;
2. how to SET the data of editint in row 'i' ;

I am able to perform this task in case of a single control in the cell but with two in the cell I'm lost
.
Thank you
Luigi


```
#include <CtrlLib/CtrlLib.h>

#define LAYOUTFILE    <edithelp/a.lay>
#include <CtrlCore/lay.h>

//--------------------- begin class -----------------
class EditLabel : public WithEditLabel<TopWindow> {
public:
 typedef EditLabel CLASSNAME;
 void WriteLabel();
 EditLabel();
};

void EditLabel::WriteLabel()
{ lbl.SetLabel( AsString(~edit) );
 SetFocus();
}

EditLabel::EditLabel()
{ CtrlLayout(*this, "");
 edit <<= THISBACK(WriteLabel);
}

void Extra2(One<Ctrl>& ctrl)
{ ctrl.Create<EditLabel>();
}
//--------------------- end class -------------------

ArrayCtrl arr;
```

```
void getvaluearray()
{ for(int i=0; i<arr.GetCount(); i++)
  { Exclamation( AsString ( arr.Get(i, 0) ) ); // get data in column 0
    // how to get the editint value in column 1?
  }

}
GUI_APP_MAIN
{
 TopWindow w;

 Button btn;

 arr.AddColumn("col1",20);
 arr.AddColumn("col2",20).Ctrls(Extra2);
 arr.SetLineCy(20);

 arr.Add("aaa");
 arr.Add("bbb");
 arr.Add("ccc");
 arr.SizePos();
 w.Add(arr);
 w.Add(btn);
 btn.SetLabel("Get data").LeftPosZ(72, 116).TopPosZ(292, 20);
 btn.WhenAction = callback(getvaluearray);
 w.Run();
}

LAYOUT(EditLabel, 96, 19)
 ITEM(EditInt, edit, LeftPosZ(2, 32).TopPosZ(1, 17))
 ITEM(Label, lbl, SetFrame(ThinInsetFrame()).LeftPosZ(36, 60).TopPosZ(1, 17))
END_LAYOUT
```

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by fudadmin on Sat, 06 May 2006 00:35:48 GMT
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I'm nearly sleeping, so my answer might not be very sound. But I in your place would look at something like GetFirstChild or LastChild, or GetNext...

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by fudadmin on Sat, 06 May 2006 01:59:25 GMT
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fudadmin wrote on Sat, 06 May 2006 01:35I'm nearly sleeping, so my answer might not be very sound. But I in your place would look at something like GetFirstChild or LastChild, or GetNext...

No, windows experience doesn't work here for me.
And unfortunately, I think, in this area U++ is ...<my famous fraze>...
But, we'll see.

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by mirek on Sat, 06 May 2006 05:02:20 GMT

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forlano wrote on Fri, 05 May 2006 20:06Hello,

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```

```
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END_LAYOUT
```

Hopefuly, despite Aris' despect, this time U++ is ortogonal:

To get/set Value, you use "SetData"/"GetData". The same applies to composite Ctrl, just in this case you will need more than single Value. The solution is ValueArray which can pack more Values into single value. Therefore:

```
void MyCompositeCtrl::SetData(const Value& v)
{
  ValueArray va = v;
  myintedit <<= va[0];
  mytextedit <<= va[1];
....
}


....
ValueArray va;
va.Add(1);
va.Add("Hello");
arrayctrl.Set(1, 1, va);
```

Mirek

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by mirek on Sat, 06 May 2006 05:04:04 GMT
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P.S.: Now seing your post, your situation is much more simple, as you have just single child Ctrl... In that case you do not need ValueArray, just implement SetData to use single value to set single child Ctrl...

Mirek

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by forlano on Sat, 06 May 2006 11:32:08 GMT
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luzr wrote on Sat, 06 May 2006 07:04P.S.: Now seing your post, your situation is much more simple, as you have just single child Ctrl... In that case you do not need ValueArray, just implement SetData to use single value to set single child Ctrl...

Mirek

Mirek,
I'm sorry but I was unable to catch what to do.
Anyway, I miss a method that permit me to get the object in a cell. The object could be a simply edit, or a composite widget (for example editstring+editint+label+...) defined as class somewhere else with/without the help of layout. Then with something like
child = array.GetCtrlCell(row, col); I would get in my hand whatever is inside the cell and start to

do with it (by 'child.objectspecificproperty()) any weird thing i like... get data, set data,..., and expecially set the focus where I want so that I can stop to fight with this lazy array cursor that do not follow the click on the embedded ctrl. This seems to me much simpler and after it the array would stop to be an headcache (for me   ) for some more complex task... but of course I am unaware of the all exisisting methods that perhaps are even easier.
At the moment I feel to deal with the arrayctrl in somehow too complex or at least not immediate way when the cell contains not a static data to be set/get. This contrast a lot with the amazing simplicity of all the remaining ctrls and tools available in U++.

Luigi

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by mirek on Sun, 07 May 2006 17:57:20 GMT
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forlano wrote on Sat, 06 May 2006 07:32luzr wrote on Sat, 06 May 2006 07:04P.S.: Now seing your post, your situation is much more simple, as you have just single child Ctrl... In that case you do not need ValueArray, just implement SetData to use single value to set single child Ctrl...

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Luigi

Actually, this is most likely caused by the fact that ability to have "embedded" Ctrls is very recent, means this part is not as matured. In fact, I was thinking about "GetCellCtrl" for some time now, for similar reasons.

The only not very elegant issue is that such function will require to return generic "Ctrl *", requiring downcast.....

Mirek

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by forlano on Sun, 07 May 2006 19:52:11 GMT

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luzr wrote on Sun, 07 May 2006 19:57
Actually, this is most likely caused by the fact that ability to have "embedded" Ctrls is very recent, means this part is not as matured. In fact, I was thinking about "GetCellCtrl" for some time now, for similar reasons.

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Mirek
I think that the elegance can stay at second place if one can dispose of such powerful method that resolve many (all?) kind of problems with embedded ctrl. With it I could resolve in a snap the problems I signaled in other threads regarding the arrayctrl. Moreover please consider that it should be used in complex task so that the developer should be ready to pay in term of decrease of elegance this additional "weapon" that simplify his life.

Luigi

Subject: Re: how to set/get data in a composite embedded ctrl in an arrayctrl
Posted by mirek on Sun, 07 May 2006 20:06:52 GMT

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Quote:
I think that the elegance can stay at second place if one can dispose of such powerful method that resolve many (all?) kind of problems with embedded ctrl.

Yes, the only problem is that sometimes there exists elegant solution...

E.g. in this case, other interface solution I am considering is to alternatively pass

Array<T>

to the "Ctrls" method,

void Ctrls<T>(Array<T>& ctrls);

so that ArrayCtrl would create its stuff in the place you have "external" access to. This way, downcasts would not be necessary.

OTOH, current inteface cannot be now removed (that is why I am always afraid when creating new stuff....), so Ctrl *GetCtrl method addition is very likely...

Mirek