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Subject: Re: Get the row numbers currently drawn  
Posted by [Sender Ghost](#) on Fri, 10 May 2013 21:04:30 GMT  
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Hello, Crydev.

crydev wrote on Thu, 09 May 2013 17:13

I was wondering. Is there a possibility to get the row numbers of the rows currently drawn? By that, I mean the rows that are visible to the user in the ArrayCtrl.

After looking at ArrayCtrl::RefreshSel() method, I created following example to get visible range of rows:

Toggle Spoiler

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

```
using namespace Upp;
```

```
Tuple2<int, int> GetVisibleRange(const ArrayCtrl& array)
{
    int from, to;
    const int last = array.GetCount() - 1;

    if (last >= 0) {
        const int cy = array.GetSize().cy - 1,
            sb = array.GetScroll();

        from = array.GetLineAt(sb),
        to = array.GetLineY(last) <= cy ? last : array.GetLineAt(sb + cy);
    }
    if (last < 0 || IsNull(to) || from > to)
        from = to = -1;

    return MakeTuple(from, to);
}
```

```
class App : public TopWindow {
public:
    typedef App CLASSNAME;
    App();
```

```
    ArrayCtrl list;
    DropList dropCount;
```

```
    void OnGet();
    void OnSelect();
};
```

```
App::App()
{
```

```
Title(t_("The visible range of rows for ArrayCtrl"));
Sizeable().Zoomable();
SetRect(Size(640, 480));
```

```
list.AddRowNumColumn("Index").SetDisplay(StdCenterDisplay()).HeaderTab().SetAlign(ALIGN_
CENTER);
```

```
const int count = 0x100000;
list.SetVirtualCount(count);
```

```
dropCount.AddButton().SetLabel(t_("Get")).Tip(t_("Get the visible range of
rows")).Left().WhenPush = THISBACK(OnGet);
dropCount.SetDisplay(StdCenterDisplay()).WhenAction = THISBACK(OnSelect);
dropCount.Add(0, t_("Empty"))
.Add(10, 10)
.Add(count, count)
.SetIndex(2);
```

```
Add(list.HSizePosZ(4, 4).VSizePosZ(4, 28));
Add(dropCount.HCenterPosZ(100).BottomPosZ(4, 20));
}
```

```
void App::OnSelect()
{
const int index = dropCount.GetIndex();
if (index < 0)
return;
```

```
list.SetVirtualCount(dropCount.GetKey(index));
}
```

```
void App::OnGet()
{
Tuple2<int, int> range = GetVisibleRange(list);
```

```
PromptOK(range.b < 0 ?
t_("The rows are not visible") :
NFormat(t_("From %d to %d"), range.a, range.b));
/* // How to use the result:
RDUMP(range);
if (range.b >= 0)
for (int i = range.a; i <= range.b; ++i)
RLOG(i << ": " << list.Get(i, 0));
*/
}
```

```
GUI_APP_MAIN
{
Ctrl::GlobalBackPaint();
```

```
App app;  
app.Run();  
}
```

Edit: Added comment about how to use the GetVisibleRange function result.

### File Attachments

1) [ArrayCtrlVisibleRange.png](#), downloaded 552 times

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