
Subject: [bug?] Can't Convert::Scan rows in ArrayCtrl
Posted by [bushman](#) on Sun, 30 Mar 2014 22:17:36 GMT
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Hi, there!

Method MyConv::Scan never gets called when running code case below:

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

using namespace Upp;

struct MyConv : Convert
{
    Value Scan(const Value& text) const
    {
        return "returning whatever I want!";
    }
};

class App : public TopWindow
{
public:
    typedef App CLASSNAME;

    App()
    {
        Add(arr.SizePos());
        arr.AddColumn("some column").SetConvert(Single<MyConv>());
        for(int i = 0; i < 10; i++)
            arr.Add(Format("double click here - %d", i));
        arr.WhenLeftDouble = THISBACK(DDClick);
    }

    void DDClick()
    {
        PromptOK(arr.Get(0).ToString());
    }

    ArrayCtrl arr;
};

GUI_APP_MAIN
{
    App().Run();
}
```

Isn't Convert::Scan all about 'returning whatever I want' into my PromptOK? Well, it doesn't! It just relays unchanged row content after double clicking it.

After poking around for a while, I ended up inserting the following patch in ArrayCtrl.cpp near line #336:

```
for(i = 0; i < control.GetCount(); i++) {  
    const Control& c = control[i];  
    if(Pos(c.pos) == ii)  
        return c.ctrl->GetData();  
}  
const Column& m = column[ii];           // <- patched  
if(m.convert)                           // <-- patched  
    return m.convert->Scan(Get0(cursor, ii)); // <-- patched  
return Get0(cursor, ii);
```

Now it works as (I) expected!

Comments?

Tks!!

Subject: Re: [bug?] Can't Convert::Scan rows in ArrayCtrl

Posted by [bushman](#) on Fri, 23 May 2014 10:40:52 GMT

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Hey, Upp people?

Again, what's Scan for? How to use it?

Tks!!

Subject: Re: [bug?] Can't Convert::Scan rows in ArrayCtrl

Posted by [bushman](#) on Fri, 25 Jul 2014 12:55:44 GMT

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I hear crickets...

Subject: Re: [bug?] Can't Convert::Scan rows in ArrayCtrl

Posted by [mirek](#) on Sat, 09 Aug 2014 08:15:09 GMT

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Nope, ArrayCtrl always uses only Format.

Scan (and Filter) is meant for input fields (EditField) or similar situations.

I think you can describe situation as

- Format is usually meant to convert some original Value to some readable output.
- Scan is meant to convert this readable output back to original Value

Now ArrayCtrl stores (usually) original Values. What you expected it to do is to convert this original Value to... what? another original Value?

Another argument is that you can easily convert Value stored in ArrayCtrl to any other Value easily (e.g. in DDClick).

Mirek