Subject: Using Vector::At doesn't initialize implicit types Posted by copporter on Tue, 29 Jul 2008 08:51:02 GMT

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If I use At or SetLength, Vecor will call the default constructor for the new items created which are not manually initialized for user classes, but will leave implicit types uninitialized.

```
Example:
```

```
#include <Core/Core.h>
using namespace Upp;
struct Foo: public Moveable<Foo>
int x;
Foo()
         \{ x = 0; \}
Foo(int xx)
            \{ x = xx; \}
};
CONSOLE APP MAIN
Vector<int> v:
v.At(0) = 7000;
v.At(2) = 7000:
DUMP(v[0]);
DUMP(v[1]);
DUMP(v[2]);
Vector<Foo> w;
w.At(0) = Foo(7000);
w.At(2) = Foo(7000);
DUMP(w[0].x);
DUMP(w[1].x);
DUMP(w[2].x);
}
```

I think we should change this. It can lead to problems and nasty crashes if you have a Vector<Foo>, where Foo is a value type class, and for some reason you need to start using Vector<Foo*>. If you Vector is not initialized in order, which is not a requirement for this class, you will most likely get memory corruption when you try to access the gaps and you cant test for NULL either.