Subject: Re: Controls & classes design questions Posted by mirek on Sun, 19 Aug 2007 09:51:16 GMT

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```
mrit wrote on Sun, 19 August 2007 05:22Then I must be misunderstanding something. I would be
grateful if you could tell me why the following code works if virtual methods are non-moveable:
struct BaseClass
BaseClass() \{ int1 = 1; \}
int int1;
virtual int GetInt() { return int1; }
virtual String GetString() { return "A String"; }
};
struct DerivedClass: public BaseClass, public Moveable<DerivedClass>
DerivedClass() { int2 = 99; }
int int2;
virtual int GetInt() { return int2; }
virtual String GetString() { return "This is a derived class"; }
};
GUI_APP_MAIN
Vector<DerivedClass> v;
v.Add(DerivedClass());
v.Add(DerivedClass());
for (int i = 0; i < v.GetCount(); i++)
 PromptOK(Format("Int: %d String: %s", v[i].GetInt(), v[i].GetString()));
}
James
```

Sure it does work - at least with GCC and MSC.

The problem is that C++ standard allows memcpy only for POD types. U++ extends this to moveable types, but that is technically violating C++ standard - such thing is undefined by standard.

Therefore we try to keep such extension as thin as possible. There is really not much practical advantage to having types with vtable moveable and in the same time, it is not that much unlikely that some compiler would implement virtual methods in a way that would not work with U++.