
Subject: Unsafe Deep Copy

Posted by [victorb](#) on Sat, 31 Mar 2007 10:11:13 GMT

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I think there might be an issue with the following code

```
template <class T, class B = EmptyClass>
class DeepCopyOption : public B {
public:
    friend T& operator<<=(T& dest, const T& src)
    { (&dest)->T::~~T(); ::new(&dest) T(src, 1); return dest; }
    ...
};
```

The issue occurs when you are self deep copying :

```
a <<= a;
```

One solution is

```
friend T& operator<<=(T& dest, const T& src)
{ if (&src != &dest) {(&dest)->T::~~T(); ::new(&dest) T(src, 1);} return dest; }
```
