Subject: Tree container - compile error when using Add()
Posted by wimpie on Tue, 06 Oct 2020 17:08:29 GMT
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I'm adding a few line in the TreeTest package, main.cpp :

```
<snip>
 //Node<Element>
<snip>
 ASSERT(ssa.IsEqual(sa));

 Node<Element> test;    // added
 test.leaf.name = "add-test"; //
 test.leaf.value = 12345;  //
 roota.Add(test);    // to here

#if 1
<snip>
```

this looked simple enough, but gives the following error (clang) :

```
/home/tommie/Programming/ultimatepp/uppsrc/Core/Vcont.h:347:56: error: call to
implicitly-deleted copy constructor of 'Upp::Node<Upp::Element>'
        T&      Add(const T& x)               { T *q = new T(x); vector.Add(q); return *q; }
                                              ^ ~
/home/tommie/Programming/ultimatepp/bazaar/Tree/Tree.h:34:50: note: in instantiation of
member function 'Upp::Array<Upp::Node<Upp::Element> >::Add' requested here
        T&      Add(const T& x)          { T& t = B::Add(x); LinkChild(t); t.Relink(); return t; }
                                         ^
/home/tommie/Programming/ultimatepp/bazaar/TreeTest/main.cpp:44:8: note: in instantiation of
member function 'Upp::Tree<Upp::Node<Upp::Element> >::Add' requested here
        roota.Add(test);                         // to here
            ^
/home/tommie/Programming/ultimatepp/bazaar/Tree/Tree.h:151:4: note: copy constructor of
'Node<Upp::Element>' is implicitly deleted because base class 'Tree<Node<Upp::Element> >' has
a deleted copy constructor
        : public Tree<Node<T> >
          ^
/home/tommie/Programming/ultimatepp/bazaar/Tree/Tree.h:10:4: note: copy constructor of
'Tree<Upp::Node<Upp::Element> >' is implicitly deleted because base class
'Array<Upp::Node<Upp::Element> >' has a deleted copy constructor
        : protected Array<T>, MoveableAndDeepCopyOption<Tree<T> >
          ^
/home/tommie/Programming/ultimatepp/uppsrc/Core/Vcont.h:437:2: note: copy constructor is
implicitly deleted because 'Array<Upp::Node<Upp::Element> >' has a user-declared move
constructor
        Array(Array&& v) : vector(pick(v.vector))  {}
        ^
```

What am I doing wrong?

regards,

Willem

btw. GCC also gives an error, which is not captured in TheIde's error list (?!)

File Attachments

1) main.cpp, downloaded 438 times