Subject: vectormap exampe is not working anymore
Posted by aftershock on Sun, 15 May 2022 11:23:30 GMT
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Hi,

Something changed. If it is a bug or it is not I do not know.

The following definition does not work any more.

```
 VectorMap<int64_t, Vector<Value> > cache;
```

I compiled it with msc19 x64.

```
Error is :
D:\upp16236\uppsrc\Core\Vcont.h(195): error C2280: 'Upp::Vector<Upp::Value>::Vector(const
Upp::Vector<Upp::Value> &)': attempting to reference a deleted f
   unction
D:\upp16236\uppsrc\Core\Vcont.h(326): note: compiler has generated
'Upp::Vector<Upp::Value>::Vector' here
D:\upp16236\uppsrc\Core\Vcont.h(326): note: 'Upp::Vector<Upp::Value>::Vector(const
Upp::Vector<Upp::Value> &)': function was implicitly deleted because 'U
   pp::Vector<Upp::Value>' has a user-defined move constructor
D:\upp16236\uppsrc\Core\Vcont.h(195): note: while compiling class template member function 'T
&Upp::Vector<T>::Add(const T &)'
        with
        [
            T=Upp::Vector<Upp::Value>
        ]
D:\upp16236\uppsrc\Core\Map.hpp(12): note: see reference to function template instantiation 'T
&Upp::Vector<T>::Add(const T &)' being compiled
        with
        [
            T=Upp::Vector<Upp::Value>
        ]
D:\upp16236\uppsrc\Core\Map.h(36): note: see reference to class template instantiation
'Upp::Vector<Upp::Vector<Upp::Value>>' being compiled
D:\upp16236\uppsrc\Core\Map.h(227): note: see reference to class template instantiation
'Upp::AMap<K,T,Upp::Vector<T>>' being compiled
        with
        [
            K=int64_t,
            T=Upp::Vector<Upp::Value>
        ]
D:\m\upp\tradetester\idatabase.h(16): note: see reference to class template instantiation
'Upp::VectorMap<int64_t,Upp::Vector<Upp::Value>>' being compiled
```

Can you fix this or provide a solution?
Tnanks.

A.

Subject: Re: vectormap exampe is not working anymore
Posted by mirek on Sun, 15 May 2022 22:57:15 GMT
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Tested this:

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

using namespace Upp;

CONSOLE_APP_MAIN
{
 VectorMap<int64_t, Vector<Value> > cache;
}
```

Compiles fine with clang and msc64. I guess I need more detailed description or complete example as package.

Mirek

Subject: Re: vectormap exampe is not working anymore
Posted by aftershock on Mon, 16 May 2022 13:19:02 GMT
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better example

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

using namespace Upp;

CONSOLE_APP_MAIN
{

  VectorMap<int64_t, Vector<Value> > cache;
```

```
   Vector<Value> v;
   int line = 0;
    cache.FindAdd(line,  v);

}
```

This really fails.

Subject: Re: vectormap exampe is not working anymore
Posted by mirek on Mon, 16 May 2022 14:28:36 GMT
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As it should. Vector does not have copy constructor. It was always this way.

cache.FindAdd(line) would do what you need here.

If you really need non-empty init value, use

cache.FindAdd(line, pick(v))

Also consider using GetAdd, e.g.

Vector<Value>& x = cache.GetAdd(line);

is the variant I use most often.

Mirek
