Subject: Re: stl-compatibility
Posted by piotr5 on Tue, 16 Apr 2013 18:11:47 GMT
View Forum Message <> Reply to Message

I instantiated a class making use of each container's stl-compatibility to check what containers can be used. what I found is:

```
 testIterContainers<Vector<V> >();
 testIterContainers<Array<V> >();
/*no conversion from iterator to const_iterator*/ // testIterContainers<Segtor<V> >();
// testIterContainers<Index<V> >();
// testIterContainers<ArrayIndex<V> >();
 testIterContainers<VectorMap<int,V> >();
 testIterContainers<ArrayMap<int,V> >();
/*no conversion from iterator to const_iterator*/ // testIterContainers<SegtorMap<int,V> >();
// testIterContainers<One<V> >();
// testIterContainers<Buffer<V> >();
// testIterContainers<Mitor<V> >();
// testIterContainers<LinkElement<V> >();
// testIterContainers<LRUCache<V> >();
 testIterContainers<InVector<V> >();
/*no operator=(ConstIterator) for InArray*/ // testIterContainers<InArray<V> >();
// testIterContainers<SortedIndex<V> >();
 testIterContainers<SortedVectorMap<int,V> >();
/*no operator=(ConstIterator) for InArray*/ // testIterContainers<SortedArrayMap<int,V> >();
/*no conversion from iterator to const_iterator*/ // testIterContainers<BiVector<V> >();
/*no conversion from iterator to const_iterator*/ // testIterContainers<BiArray<V> >();
```

the containers I used all at least instantiate and return an iterator, the containers I commented out have no stl-compatibility. additional comments are talking of 2 compilation-problems: InArray delegates SetEnd to InVector resulting in

```
Upp::InArray<T>::SetEnd(Upp::InArray<T>::ConstIterator&) const [with T = Upp::Vector<in
```

```
Upp::InArray<T>::end() [with T = Upp::Vector<int>, Upp::InArr
```

/home/p/MyApps/stlpp/stlpp.h:532:53:   instantiated from

/home/p/MyApps/stlppTest/stlppTest.cpp:50:21:   instantiated from here

 nArray<Upp::Vector<int> >*)this)->Upp::InArray<Upp::Vector<int> >::iv.Upp::InVector<T>::End

/home/p/upp/uppsrc/Core/InVector.hpp:755:2: note: candidate is:
/home/p/upp/uppsrc/Core/InVector.h:200:20: note: Upp::InVector<Upp::Vector<int>*>::Iterator&
Upp::InVector<Upp::Vector<int>*>::Iterator::operator=(con
 st Upp::InVector<Upp::Vector<int>*>::Iterator&)
/home/p/upp/uppsrc/Core/InVector.h:200:20: note: no known conversion for argument 1 from

Upp::InArray<T>::SetBegin(Upp::InArray<T>::ConstIterator&) const [with T = Upp::Vector<

Upp::InArray<T>::begin() [with T = Upp::Vector<int>, Upp::InA

/home/p/MyApps/stlpp/stlpp.h:532:53:   instantiated from

/home/p/MyApps/stlppTest/stlppTest.cpp:50:21:   instantiated from here

 nArray<Upp::Vector<int> >*)this)->Upp::InArray<Upp::Vector<int> >::iv.Upp::InVector<T>::Begin

/home/p/upp/uppsrc/Core/InVector.hpp:749:2: note: candidate is:
/home/p/upp/uppsrc/Core/InVector.h:200:20: note: Upp::InVector<Upp::Vector<int>*>::Iterator&
Upp::InVector<Upp::Vector<int>*>::Iterator::operator=(con
 st Upp::InVector<Upp::Vector<int>*>::Iterator&)
/home/p/upp/uppsrc/Core/InVector.h:200:20: note: no known conversion for argument 1 from

stlppTest: 1 file(s) built in (0:05.84), 5848 msecs / file, duration = 5855 msecs, parallelization 0%

minimal testing program is

```
struct InArrayDebug
{
 InArray<int> c;
 InArray<int>::ConstIterator end() const {return c.end();}
```

InArray<int>::ConstIterator begin() const {return c.begin();}
};

the problem with segtor is

/home/p/MyApps/stlpp/stlpp.h:75:2: note: no known conversion for argument 2 from

please note, I haven't updated svn yet,
svn st -v |sort |tail returns 5977 as the revision number on googlecode.
