
Subject: Index constructor from Vector now explicit
Posted by [mirek](#) on Tue, 26 Feb 2013 19:02:05 GMT
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Today I have encountered pretty tricky issue:

```
VectorMap<String, String> h;  
const Index<String>& x = h.GetKeys();
```

This innocent looking code is broken in a very tricky way: GetKeys returns a reference to Vector<String> which is then picked by Index constructor to perform a conversion to Index<String> (in reality, there should have been h.GetIndex() instead...).

Because I have spent some bad amount of time trying to figure out what is happening, I have decided to disallow this conversion path by making Index constructor from Vector explicit. Now this will probably break some code (but not much of it), e.g. in theide, following line is now invalid:

```
Index<String> x = Split("hello;world", ';');
```

and has to be rewritten as

```
Index<String> x(Split("hello;world", ';'));
```

but I think it is still better to make this issue safer...

Mirek

Subject: Re: Index constructor from Vector now explicit
Posted by [koldo](#) on Tue, 26 Feb 2013 22:49:02 GMT
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Hello Massimo and Mirek

ProtectDB.cpp, line 268 gives a compiling error.

Subject: Re: Index constructor from Vector now explicit
Posted by [mirek](#) on Wed, 27 Feb 2013 06:59:22 GMT
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koldo wrote on Tue, 26 February 2013 17:49>Hello Massimo and Mirek

ProtectDB.cpp, line 268 gives a compiling error.

Fixed.

Mirek

Subject: Re: Index constructor from Vector now explicit
Posted by [mdelfede](#) on Thu, 28 Feb 2013 11:42:57 GMT
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mirek wrote on Tue, 26 February 2013 20:02 Today I have encountered pretty tricky issue:

```
VectorMap<String, String> h;  
const Index<String>& x = h.GetKeys();
```

This innocent looking code is broken in a very tricky way: GetKeys returns a reference to Vector<String> which is then picked by Index constructor to perform a conversion to Index<String> (in reality, there should have been h.GetIndex() instead...).

Because I have spent some bad amount of time trying to figure out what is happening.....
Mirek

Eh... I stumbled on this error some time ago, and it took me a whole day to figure it out
Good idea to fix it

Subject: Re: Index constructor from Vector now explicit
Posted by [koldo](#) on Fri, 01 Mar 2013 07:12:59 GMT
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Hello Massimo

It is strange. This problem appeared few days ago.

Is it really the same problem or perhaps Mirek has solved two problems?

Subject: Re: Index constructor from Vector now explicit
Posted by [mirek](#) on Fri, 01 Mar 2013 08:00:26 GMT
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koldo wrote on Fri, 01 March 2013 02:12 Hello Massimo

It is strange. This problem appeared few days ago.

Is it really the same problem or perhaps Mirek has solved two problems?

I guess you misunderstand. The problem (that I and Massimo have encountered) was `_resolved_` few days ago, but fix was not backward compatible, which resulted in issue in `ProtectDB.cpp`.

Still we both agree that in this very case, minor BW incompatibility is better.

Mirek
