
Subject: Void pointer to NTL Array and VectorMap
Posted by [manfhe](#) on Thu, 29 Apr 2010 17:14:49 GMT
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Hello

I have a void pointer to an NTL Array and VectorMap, how do I receive the elements through the key?

The code looks like this:

```
typedef VectorMap<String, String> ntlMap;  
typedef Array<String> ntlArray;  
  
void* ptrA;  
void* ptrM;  
  
ptrA = new ntlArray;  
ptrM = new ntlMap;  
  
for(int i = 0; i < ((ntlMap*)ptrM)->GetCount(); i++)  
    ((ntlArray*)ptrA)->???? = ((ntlMap*)ptrM)->????;
```

And I would like to thank all contributors to this project. For beginners in C++ as I, U++ is a true teacher.

Grateful, Alan

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [dolik.rce](#) on Thu, 29 Apr 2010 17:45:06 GMT
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Hi Allan,

You can always use `operator[]()`. It looks a bit ugly, but it should work fine: `for(int i = 0; i < ((ntlMap*)ptrM)->GetCount(); i++)`

`((ntlArray*)ptrA)->operator[](i) = ((ntlMap*)ptrM)->operator[](i);` Maybe there is a nicer way to do this, but in U++ there is so little cases where pointers are needed that I never really bothered to investigate any other possible solutions

Best regards,
Honza

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [manfhe](#) on Thu, 29 Apr 2010 18:54:26 GMT
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Thanks Honza.

Work well.

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [hojtsy](#) on Thu, 29 Apr 2010 20:16:40 GMT
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Hi, a shorter version is below. But there is usually a better alternative to using void* type in the first place.

```
for(int i = 0; i < ((ntlMap*)ptrm)->GetCount(); i++)  
    (*(ntlArray*)ptr)[i] = (*(ntlMap*)ptrm)[i];
```

Regards,
Sandor

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [mirek](#) on Thu, 29 Apr 2010 22:01:13 GMT
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[quote title=manfhe wrote on Thu, 29 April 2010 13:14]Hello

I have a void pointer to an NTL Array and VectorMap, how do I receive the elements through the key?

The code looks like this:

```
typedef VectorMap<String, String> ntlMap;  
typedef Array<String> ntlArray;  
  
void* ptr;  
void* ptrm;  
  
ptr = new ntlArray;  
ptrm = new ntlMap;  
  
for(int i = 0; i < ((ntlMap*)ptrm)->GetCount(); i++)  
    ((ntlArray*)ptr)->???? = ((ntlMap*)ptrm)->????;
```

Or you can do this:

```
ntlMap& map = *(ntlMap *)ptrm;  
ntlArray& array = *(ntlArray *)ptrm;  
for(int i = 0; i < map.GetCount(); i++)  
    array[i] = map[i];
```

BTW, I only hope that you are doing something really special

Using 'new' should be reserved only for really desperate cases

Quote:

And I would like to thank all contributors to this project. For beginners in C++ as I, U++ is a true teacher.

Grateful, Alan

Only be aware that U++ will teach you something little bit different from "classic" approach...

Subject: Re: Void pointer to NTL Array and VectorMap

Posted by [manfhe](#) on Thu, 29 Apr 2010 22:15:04 GMT

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One more doubt about void* type.

To destroy it is better: delete (ntlMap*)ptrm (This calls the destructor of the class?)

Or just: delete ptrm (So only destroy the pointer?)

Sorry, this is about a C++ and not U++. I'm sorry, but I'm a beginner in C++.

Thanks

Subject: Re: Void pointer to NTL Array and VectorMap

Posted by [mirek](#) on Fri, 30 Apr 2010 08:46:03 GMT

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manfhe wrote on Thu, 29 April 2010 18:15: One more doubt about void* type.

To destroy it is better: delete (ntlMap*)ptrm (This calls the destructor of the class?)

Yes. Once you cast it, compiler thinks it is pointer to ntlMap.

Once again, I hope that you are doing something really special. You should not use void pointers in 'normal' code. Actually, you should avoid pointers whenever possible.

Mirek

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [cbpporter](#) on Fri, 30 Apr 2010 09:01:46 GMT
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Actually, I think it is an unwritten rule derived from years of practice both in C and C++ that you shouldn't use void pointers except for function parameters and some struct members, and even then only when there is a need to . It is generally better to use typed pointers.

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [manfhe](#) on Fri, 30 Apr 2010 11:40:10 GMT
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Thanks.

I need use void* to manage different types at runtime, and my understanding in C++ void* is the unique solution.

I'm trying to make a crazy table, similar to a Lua table.

Subject: Re: Void pointer to NTL Array and VectorMap
Posted by [dolik.rce](#) on Fri, 30 Apr 2010 13:03:15 GMT
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I'm not sure how crazy is your crazy table, but in most cases such problems can be solved using Value type. See documentation (paragraph 6) for details.

Honza
