Subject: Preferred way to access VectorMap Posted by forlano on Sun, 01 Jan 2012 14:36:49 GMT

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```
Hello,
```

I have a VectorMap<int, myclass> V;

I can retrieve the values of V with:

- 1) V[i].myclass_method...
- 2) myclass& a = V.Get(i); a.myclass_method...

Which is the preferred way? Which is the faster? Thanks, Luigi

Subject: Re: Preferred way to access VectorMap Posted by dolik.rce on Sun, 01 Jan 2012 16:57:59 GMT

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Hi Luigi,

First of all, beware that each of those two methods does something else:

Now, lets say we are talking about Vector, where Get and operator [] are identical. In this case, operator[] calls get: T& operator[](int i) { return Get(i); } So it is one function call shorter to use get, but I would say that modern compilers will optimize this out, so there is not much of a difference between both method. The only time you might see some speedup is when you need to do several operations over the same element, than it is definitely a good idea to save a reference and work with that (method 2), instead of calling operator[] or Get multiple times, because Get has little overhead caused by checking the range of argument.

Also note that since Get and operator[] are equivalent, you can use a third variant:

```
 myclass& a = V[i];
 a.myclass_method...
```

Best regards, Honza

Subject: Re: Preferred way to access VectorMap Posted by forlano on Sun, 01 Jan 2012 17:47:38 GMT

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dolik.rce wrote on Sun, 01 January 2012 17:57Hi Luigi,

First of all, beware that each of those two methods does something else:

```
VectorMap<K = int,T = myclass> {
   T& Get(const K& k) { return value[Find(k)]; }
   T& operator[](int i) { return value[i]; }
}
```

Hi Honza,

Thank you for the info.

You are right about the warning and the differences. However in my case I forced the key 'i' to be in the same place of [i]. But in principle this is not the case. So I am going to use the reference

Best Wishes, Luigi