
Subject: Re: cpu times

Posted by [Felix Boehmer](#) on Sat, 12 May 2012 09:14:02 GMT

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Dear Gianluigi,

while these are interesting measurements, I have to re-cite one those fun meetings we had last summer: You are comparing apples with pears!

If you want to compare the raw performance of the two data classes, you have to use similar functionality, e.g. the [] operator of the <vector> which does no implicit range check. It is unnecessary and bad practice to use at() in loops of the kind

```
for(int i=0; i<vector.size(); i++) {
meh = vector.at(i); //Completely unnecessary range-check
}over vectors anyway.
```

It would be interesting to directly compare assignment and reading performance like you did by replacing at() with []. Another thing you could look at which would have some real-world relevance is to compare array[] and (*<vector-pointer>)[] performance, that is the combined performance of a necessary de-referencing with following raw access.

Cheers

Felix
