comparing loop styles for reductions in C++

Problem description

I am trying to reproduce Matt Godbolt's example from his CppCon2017 talk

Experiments

Compile the source code in this directory as by typing:

```
$ make build
```

if you want to play with compiler flags, use

```
$ CXXFLAGS="-O2" make build
```

To run the benchmarks used in the plots below, do

```
$ make run
```

or

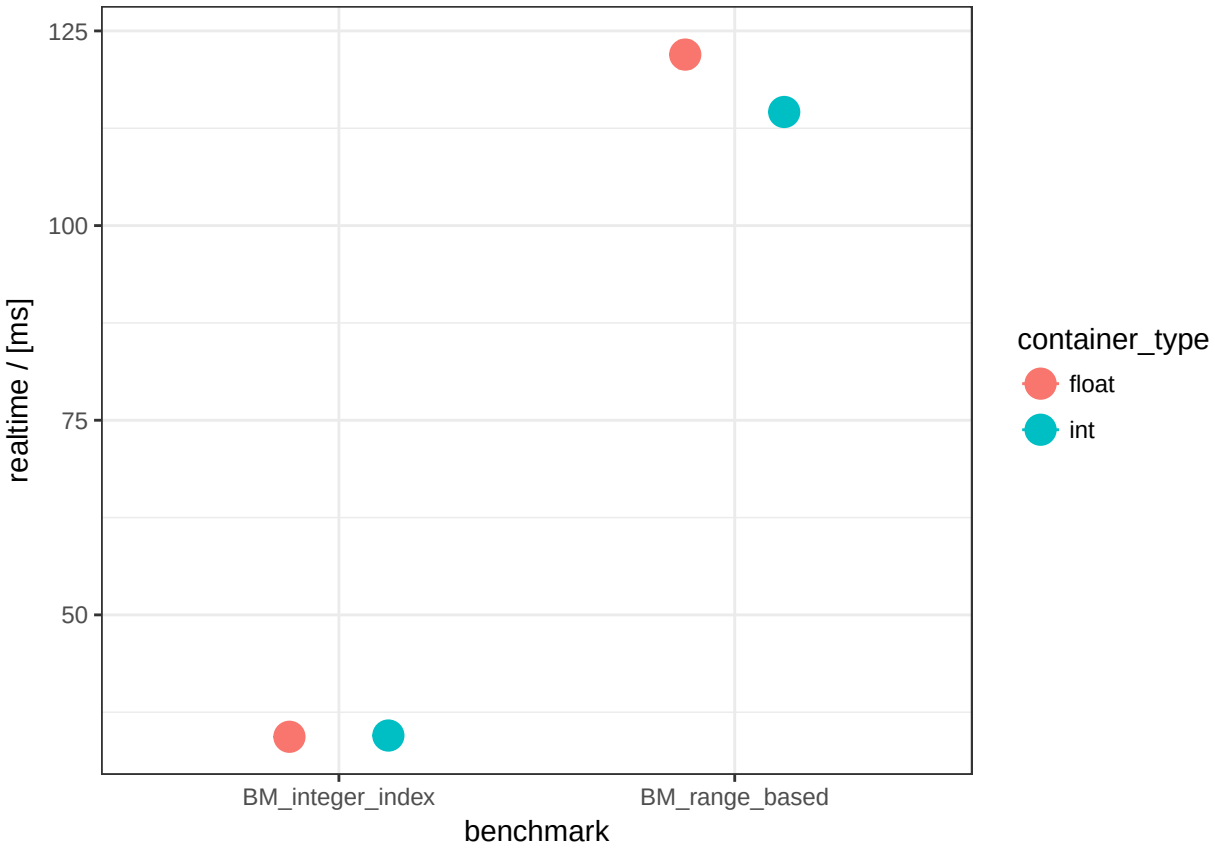
```
$./forloop_style_with_args_templated --benchmark_filter=.*/134217728 --benchmark_repetitions=20 --benchm
```

Results

The following R snippets assume that you have the complete `tidyverse` installed. In order to do this, used

```
$ R
> install.packages("tidyverse")
```

So let's see what the data has to offer:



Looks like there is a tendency that integer based loops run faster on my laptop when accessing integer data! Interesting. Something worthwhile following up.