

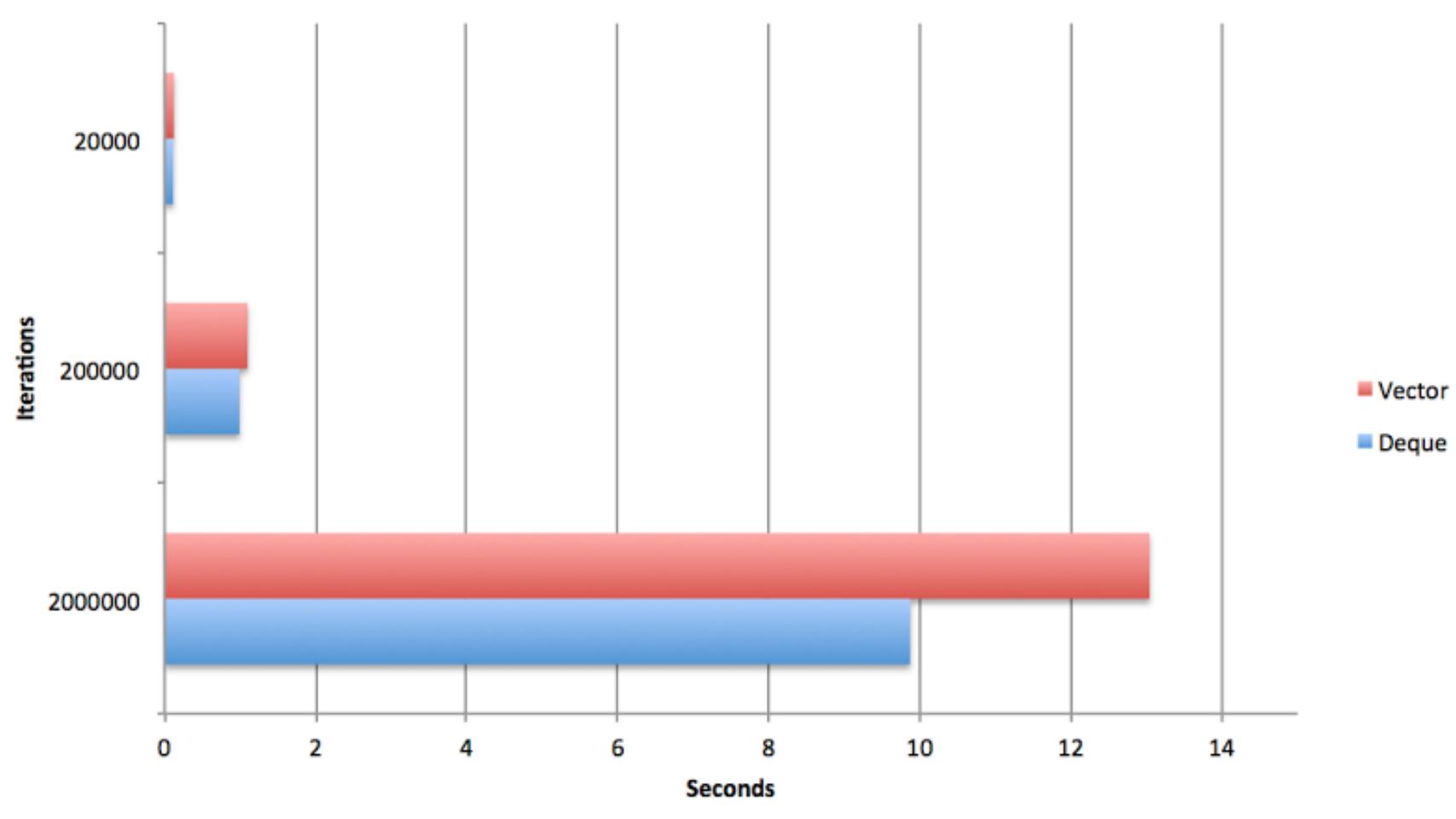
How do you choose a container?

- Do you have a favorite?
- Pseudo-random container generator?
- Best guess?
- std::vector because Chandler says so

Know your access pattern.

```
template <typename Container> void tester(int iterations) {
       srandom(1337); // Seed PRNG to a known value for reproducibility.
 3
       Container nodesToProcess(1); // Start with the first node to process.
       for (auto i = 0; i < iterations; ++i) {</pre>
4
         // Nodes are provided. Isolate and commonize generation.
6
         auto rand = random() % 128; // Determine number of nodes at this level.
         std::vector<typename Container::value_type> nodes(rand);
8
         // Process a node.
         if (!nodesToProcess.empty()) {
10
11
           nodesToProcess.pop_back();
12
13
         // Queue up all the children nodes to process.
         std::for_each(nodes.rbegin(), nodes.rend(),
14
15
                       [&nodesToProcess](typename Container::value_type &v) {
           nodesToProcess.push_back(v);
16
17
         });
18
19
```

Collect results.



std::deque wins!

Note: Don't consider deque a "faster" data structure. It is under this special case.

Go forth and test.