TODO

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1 Profiling

1.1 profile r! (AK)

1.2 profile valgrind! (NO)

2 Start report! (NO)

2.1 Baseline profiling (AK)

3 Easy solutions with omp critical

3.1 omp critical -> omp atomic write/update? (AK)

3.2 profile again

4 Misc tests

4.1 change from dynamic to static

4.2 if keep critical consider naming them (possible speedup) (AK)

4.3 what does nowait do? speedup? (NO)

5 Start testing on Povel

6 Optimizing flags / compilers

7 MPI? (if so on R-side, or?)

8 Instructions

8.1 Build & compile

Howto install and compile the R-package:

```
https://github.com/mclements/microsimulation
shell:  git clone https://github.com/mclements/microsimulation.git
R: install.packages("BH")
R: install.packages("Rcpp")
shell:  R CMD INSTALL path_to_microsimulation
```

8.2 Run valgrind from R

Howto run valgrind from shell:

```
   R --vanilla -d "valgrind --tool=memcheck --track-origins=yes"
< ~/src/ki/microsimulation/doc/RunSim.R
   R --vanilla -d "valgrind --tool=memcheck --tool=callgrind" < ~/src/ki/microsimulatio
```