gtbarrier

Barrier Synchronization Algorithm using OpenMP & OpenMPI

File Structure

file name	Implemented Barrier
dbarrier*.cpp	Dissemination Barrier
tbarrier*.cpp	Tournament Barrier
cbarrier*.cpp	Centralised Barrier

where * can be `mp|mpi|mixed`. The corresponding correctness tests will have `test1_` prefix in the `test` folder. The corresponding performance test will have `perf_` as prefix in the same `test` folder

How to Run

- run `make` to compile all the code
- all the executables is present in `bin/` folder
- `.pbs` files are provided in the root directory for each `openmp|openmpi|mixed` barrier codes
- output when .pbs files are excuted, is present in `results` folder

Resources

- code: https://github.com/mangalaman93/gtbarrier
- data: https://docs.google.com/spreadsheets/d/1qVHuFdnH7InjpncFwjebgAO-8SEiGdRbnZxBpLchLlc
- report: doc/README.pdf, doc/report.pdf