

Lock-free k-LSM Relaxed Priority Queue

Folder contents

Here are the contents of the root folder:

```
.  
├── README.md  
├── klsn.cpp  
├── skiplist-testing.cpp  
└── skiplist.cpp
```

File information:

- `README.md` -> Readme
- `skiplist.cpp` -> Main part of this sprint, compile using instructions below.
- `skiplist-testing.cpp` -> Testing for the skiplist. A separate unit testing is in progress.
- `klsn.cpp` -> Extracted pseudocode from the research paper, translated to C++. More work to be done on that part.

Compiling and running the program

To compile, use the g++ compiler as shown here:

```
$ g++-8 skiplist skiplist.cpp
```

*This has been tested on gcc 8.2.0 on MacOS 10.14.2 and Ubuntu 18.04

Testing

Tests are included in `skiplist-testing.cpp`. A better-structured and separate unit testing is in progress.

Compile the file as usual like so, and run the executable. Tests are included in the file mentioned above.

```
$ g++-8 tester skiplist-testing.cpp
```

*This has been tested on gcc 8.2.0 on MacOS 10.14.2 and Ubuntu 18.04