

Signaler Test Plan

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1 Summary

A program that prints out increasing prime numbers to standard output, approximately one every second.

2 Automated Test Cases

1. Automated Tests Automated tests may be executed with `make check`. This should be run from the top level directory.

Expected: No errors, outputs as indicated.

3 Common Test Cases

1. Installation

Prerequisites: Directory does not already exist

`git clone git@git.umbc.tc:tdqc/tdqc8/jkaten/signaler.git; cd signaler`

Expected: directory is created

2. Correct Branch

Prerequisites: In the project's directory

`git branch`

Expected: `main` is active

3. Build Cleaning

Prerequisites: In the project's directory

`make; make clean; ls *.o; ls signaler`

Expected: No such file or directory errors

4 `signaler` Test Cases

1. Build

Prerequisites: In the projects directory; make clean
make; ls signaler

Expected: file is listed

2. Build Debugging

Prerequisites: In the projects directory; make clean
make debug; readelf -debug-dump=decodedline signaler

Expected: debugging info is listed

3. Build Cleaning

Prerequisites: In the project's directory
make; make clean; ls signaler

Expected: No such file or directory errors

4. Profiling

Prerequisites: In the project's directory
make profile; ./signaler -s 10 -r; ls gmon.out; make clean

Expected: gmon.out is listed