

Author: Gavin Atkin
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README:

1) Build - > Run:

From CSE Grid terminal:

- make makefile all
- ./matrix.out

2) The application print the number of threads the application will use then will ask for input of a filename.

If the file exists and has matrix data in the correct format, it will create a third matrix from the matrix multiplication of the two matrices from the file.

Output will have all three matrices and the runtime of the algorithm. If the matrices have more total elements than 100, they will not be printed to the console.

3) Once finished printing the matrices and runtime, the application will ask again for a filename and report the number of threads it will use.

4) The application starts at 1 thread, and increments the total threads by 1 every time it executes up to and including 20 if not exited beforehand.