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HPSC Lab 6

Cannon's and Fox's Algorithms for Fast Matrix Multiplication

I did this assignment in two separate parts for the two different algorithms, as we were originally doing it before the two labs were merged. As a result, I have two separate executables: fox_multiply and canon_multiply. When I did Fox's, I went about it in a much more structured, but didn't go back to change the way I did Cannon's. Both programs take the same arguments:

-verbose	prints timing information on a single line
-print	prints matrices to verify output
-size n	replace n with your desired problem size. The program will generate an n by n matrix

Based on the arguments to my programs, you may have guessed I did not do hdf5 input or output (I was under the impression that we would be given working code for this as part of a solution to the previous lab; what happened to that?).

I suggest you try running run_cannon_tests.sh and run_fox_tests.sh. You will see that for large problem sizes, both my fox's and canon's implementations will segfault.