

This class session was about running the matrix program that was started by the instructors and completed by the students, and validating that it generated an output 3x3 matrix file C that reflected the result of multiplication of 3x3 matrix input files A and B.

With that success, we are moving on next to implementing a strategy of creating random-number generating programs, which will be used to create our next series of A and B input matrices – something far more complex than the 3x3 matrices of our test. The plan is to create two 100x100 matrices, that will then be multiplied together and the result validated. The plan is to also include support programs that provide validation of computational steps. This is a second test scenario, and may not be the final, in terms of matrix size, as that is yet to be determined.

The overall strategy is to come up with an optimal size of matrix multiplication that can be further configured to test various scenarios of utilization that optimize usage of RAM, processor, and hard drive capacities. We would like to be able to demonstrate and present results that show the impact of the various configurations.