Uzochi Dimkpa Advection ITCS 5182-001 High Performance Computing Prof. Erik Saule August 27, 2023

- 1. The algorithm takes approximately $\boxed{0.000980926}$ seconds with an N=103 and dt=0.0009
- 2. The algorithm takes approximately $\boxed{0.092342}$ seconds with an N=1003 and dt=0.00009