Time taken by EnTK to execute a workflow Workflow: 1 Pipeline, 1 Stage per Pipeline and X Tasks per Stage

Resource: 512 cores on ORNL. Titan (ORTE), Cores per Task: 1, Task kernel = mdrun, Task duration = 500 second(s), Number of trials per data point = 320.0 EnTK task management overhead Execution time(right) 17.5 4000 15.0 Execution time (seconds) 3000 12.5 Time (seconds) 10.0 2000 7.5 5.0 1000 2.5 0.0 512 1024 2048 4096

Tasks