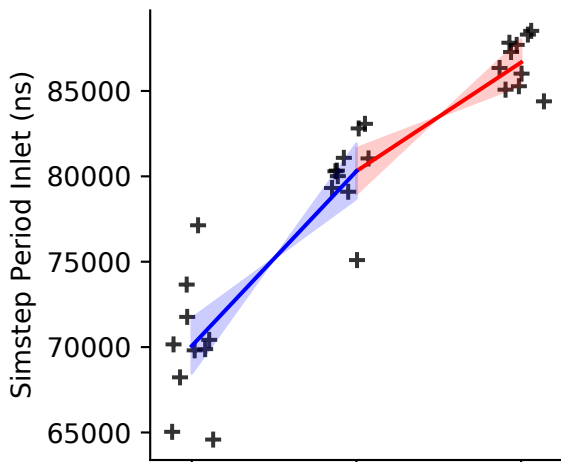


Quantile Regression

Cpus Per Node = 1



Cpus Per Node = 4

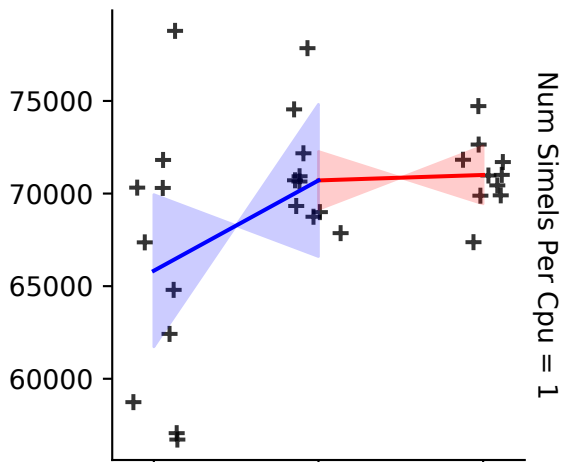


Figure 10 is a line graph showing the Simstep Period Inlet (ns) versus Log Num Processes. The y-axis is labeled "Simstep Period Inlet (ns)" and has a multiplier of $1e6$. The x-axis is labeled "Log Num Processes" and has values 2 and 3. Data points are marked with '+' symbols. A blue line connects the points at Log Num Processes 2 and 3, showing a sharp increase. A red line continues from the point at Log Num Processes 3, showing a slight decrease.

Log Num Processes	Simstep Period Inlet (ns) ($\times 10^6$)
2	~1.70
3	~2.05

Figure 10 is a line graph showing the number of simulations per CPU (Y-axis, scaled by 10^6) versus the log of the number of processes (X-axis). The graph compares two configurations: a baseline (blue line) and a configuration with 2048 CPUs (red line). Both configurations show a peak in simulations per CPU at 3 log processes, followed by a decrease at 4 log processes. The 2048 CPU configuration consistently shows higher simulations per CPU than the baseline.

Log Num Processes	Baseline (Simulations Per CPU $\times 10^6$)	2048 CPUs (Simulations Per CPU $\times 10^6$)
2	~1.58	~1.58
3	~1.95	~1.95
4	~1.85	~1.85