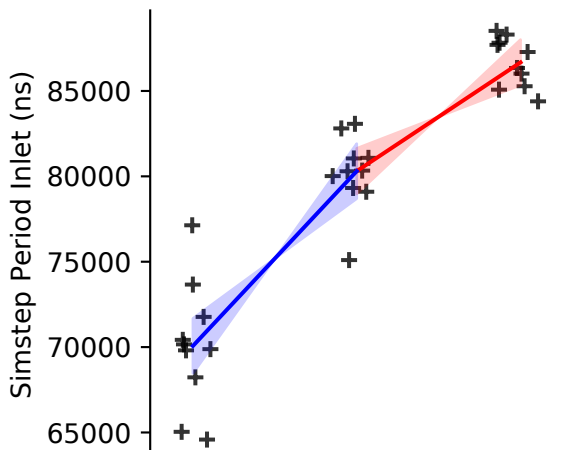


# Quantile Regression

Cpus Per Node = 1



Cpus Per Node = 4

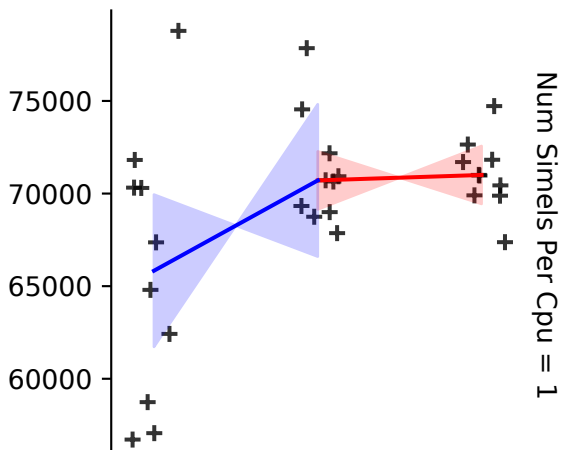


Figure 10 is a line graph showing the Simstep Period Inlet (ns) versus Log Num Processes. The y-axis is labeled "Simstep Period Inlet (ns)" and has a multiplier of  $1e6$ . The x-axis is labeled "Log Num Processes" and has values 2 and 3. Two data series are plotted: a blue line with '+' markers and a red line with '+' markers. Both series show an increase in the period inlet as the number of processes increases, peaking around 3 processes and then slightly decreasing.

| Log Num Processes | Blue Line (ns) | Red Line (ns) |
|-------------------|----------------|---------------|
| 2                 | ~1.70          | ~1.70         |
| 3                 | ~2.05          | ~2.05         |
| 4                 | ~2.00          | ~2.00         |

Num Simels Per Cpu = 2048

| Log Num Processes | Blue Series (Num Simels Per Cpu) | Red Series (Num Simels Per Cpu) |
|-------------------|----------------------------------|---------------------------------|
| 2                 | ~1.58                            | ~1.58                           |
| 3                 | ~1.95                            | ~1.95                           |
| 4                 | ~1.85                            | ~1.85                           |