## Overview of performance chart of different power flow algorithm based on time required to reach the convergence threshold.

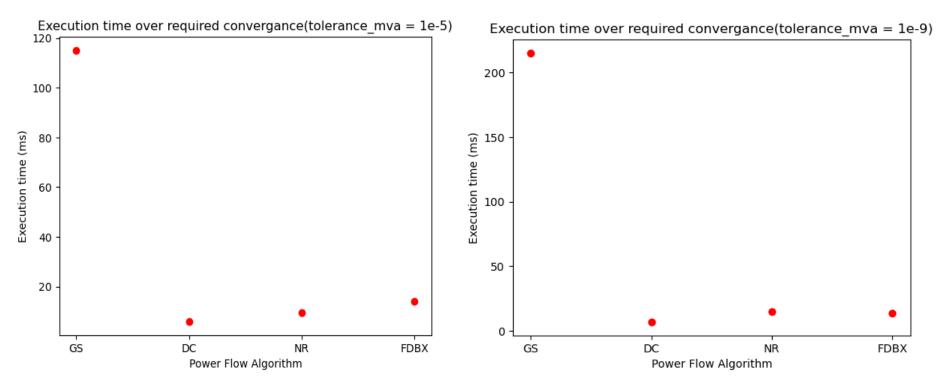


Figure 1: Execution time for different convergence threshold

For the Gauss-Seidel algorithm there is a significant change execution time. With the decrease of convergence threshold from 1e-5 to 1e-9 the execution time increases from around 120 ms to 220 ms. For the other algorithm there is not that much notable change in execution time.

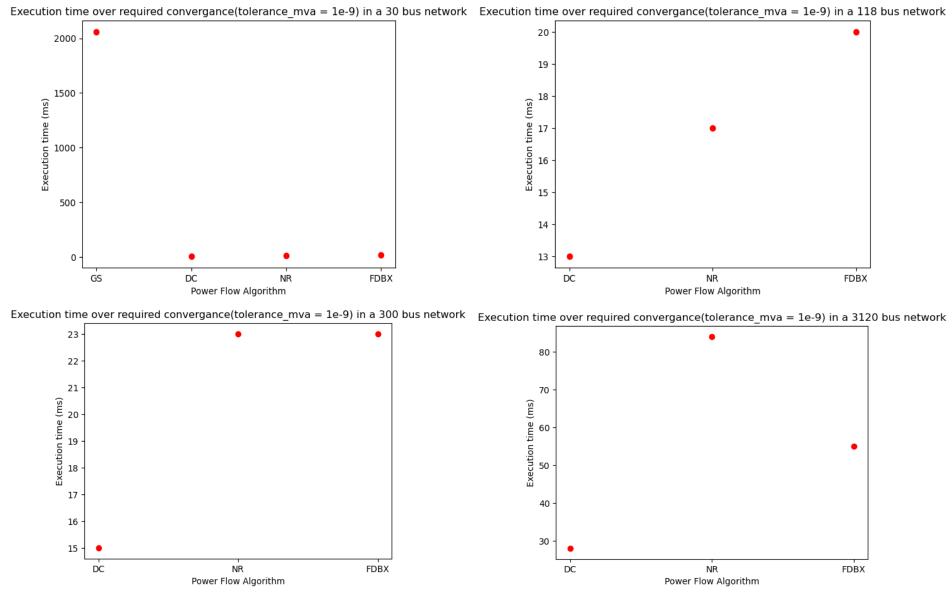


Figure 2: Performance chart with larger network

With larger network there is not much drastic change in DC power flow algorithm execution time as shown in the above charts. But other algorithms have a good amount of rise in execution time which is shown the charts.