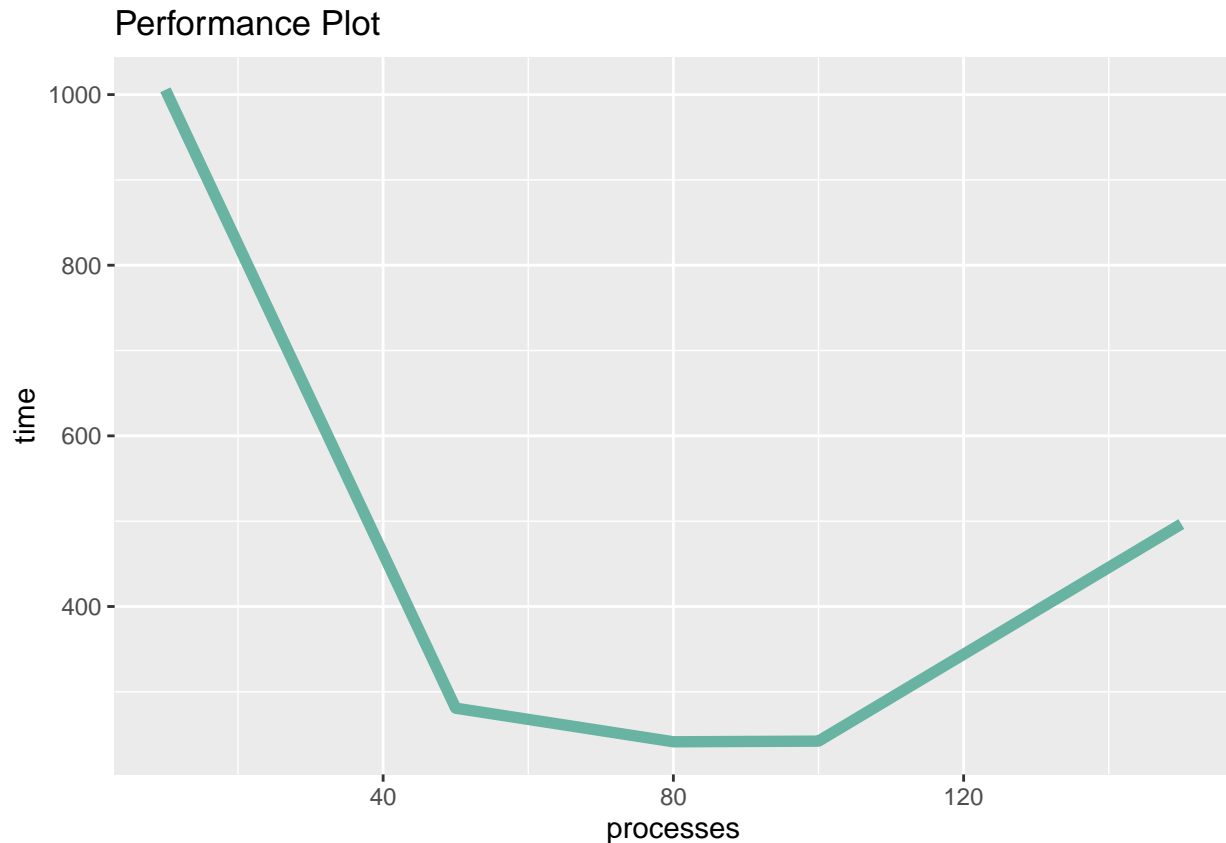


Execution Time vs Number of Processes

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The above plot is a “Number of Processes vs Execution Time” performance plot for the MPI program. The plot has been made on for 5 number of processes - 10, 50, 80, 100 and 150. The execution time is checked for a single read and a single chromosome file. From the plot we can see that the execution time goes on decreasing upon increasing the number of processes but to a point. After that it slowly starts increasing again. Thus, choosing the ideal number of processes is important! The plot of time vs processes is like a trade-off!

The execution time screenshots can be viewed here :

https://drive.google.com/drive/folders/1H9KyIX-WDNphBJU8eLrFGrJdq_62XLdo?usp=sharing