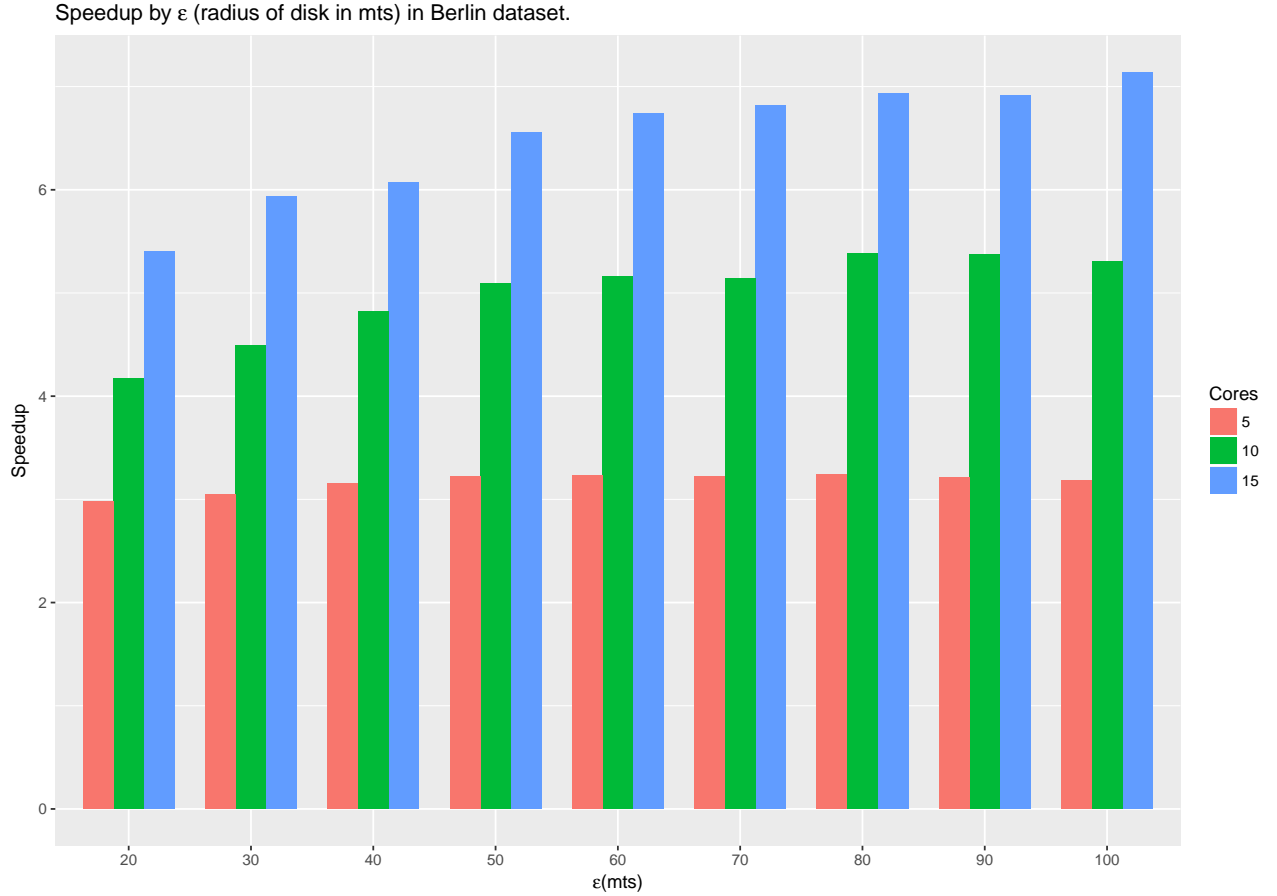# Speedup and Scaleup Analysis

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Speedup for Berlin dataset.

We used the dataset built with SUMO using the Berlin network. The size of the dataset is around 160K trajectories. For speedup, a single timeslot was used with 160256 points. Three nodes were available, 5 cores each.

Speedup by ε (radius of disk in mts) in Berlin dataset.

Scaleup for Berlin dataset.

Similar dataset was used to run scaleup analysis. The 160K points were divided on three samples. First one collected 1/3 of the data (small), second one 2/3 (medium) and third one keep the full content (full). The small sample was run using just one node (five cores). The medium dataset used 2 nodes (10 cores) and, finally, the full dataset run over the three available nodes.

Scaleup by ε (radius of disk in mts) in Berlin dataset.