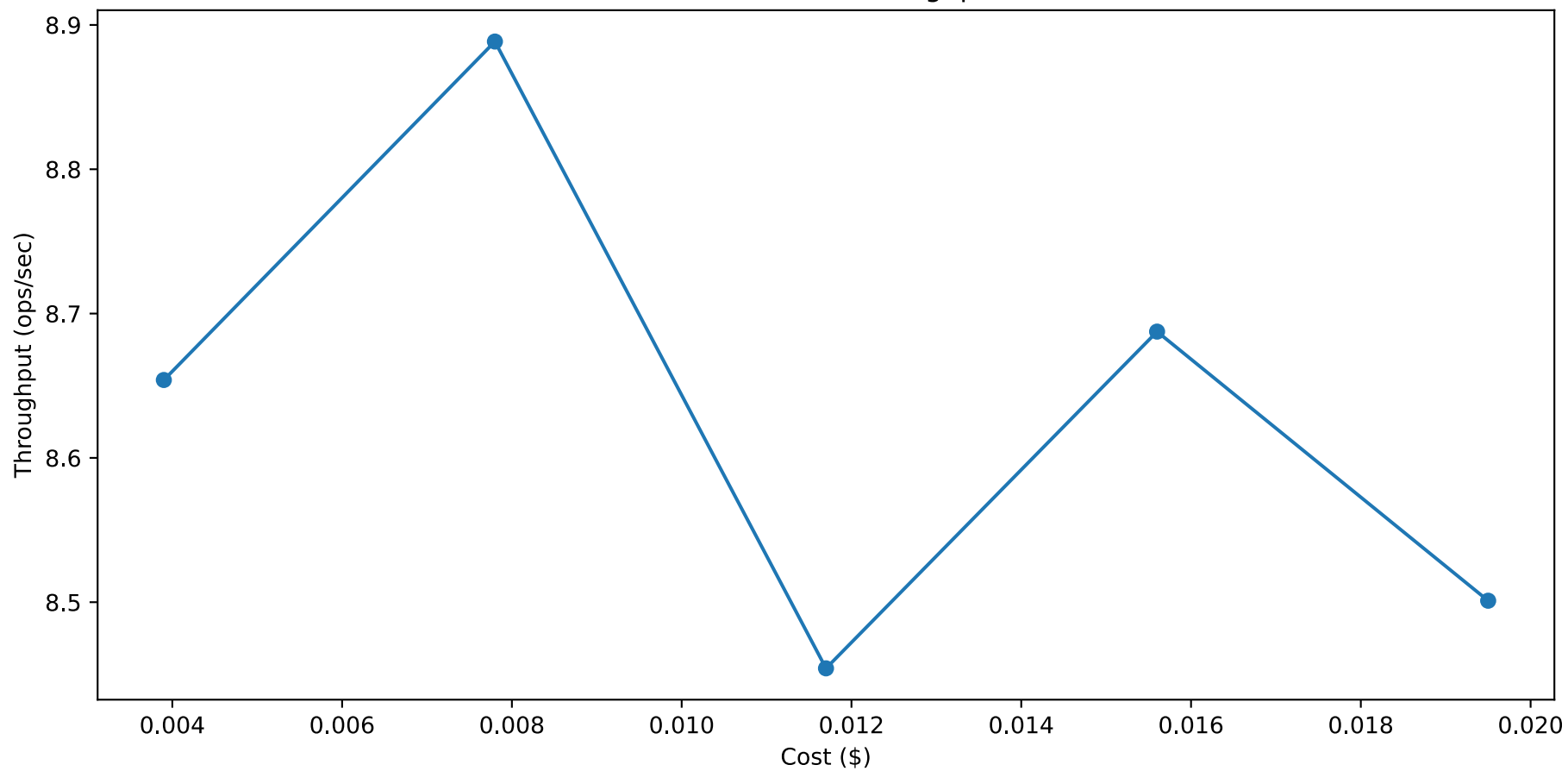
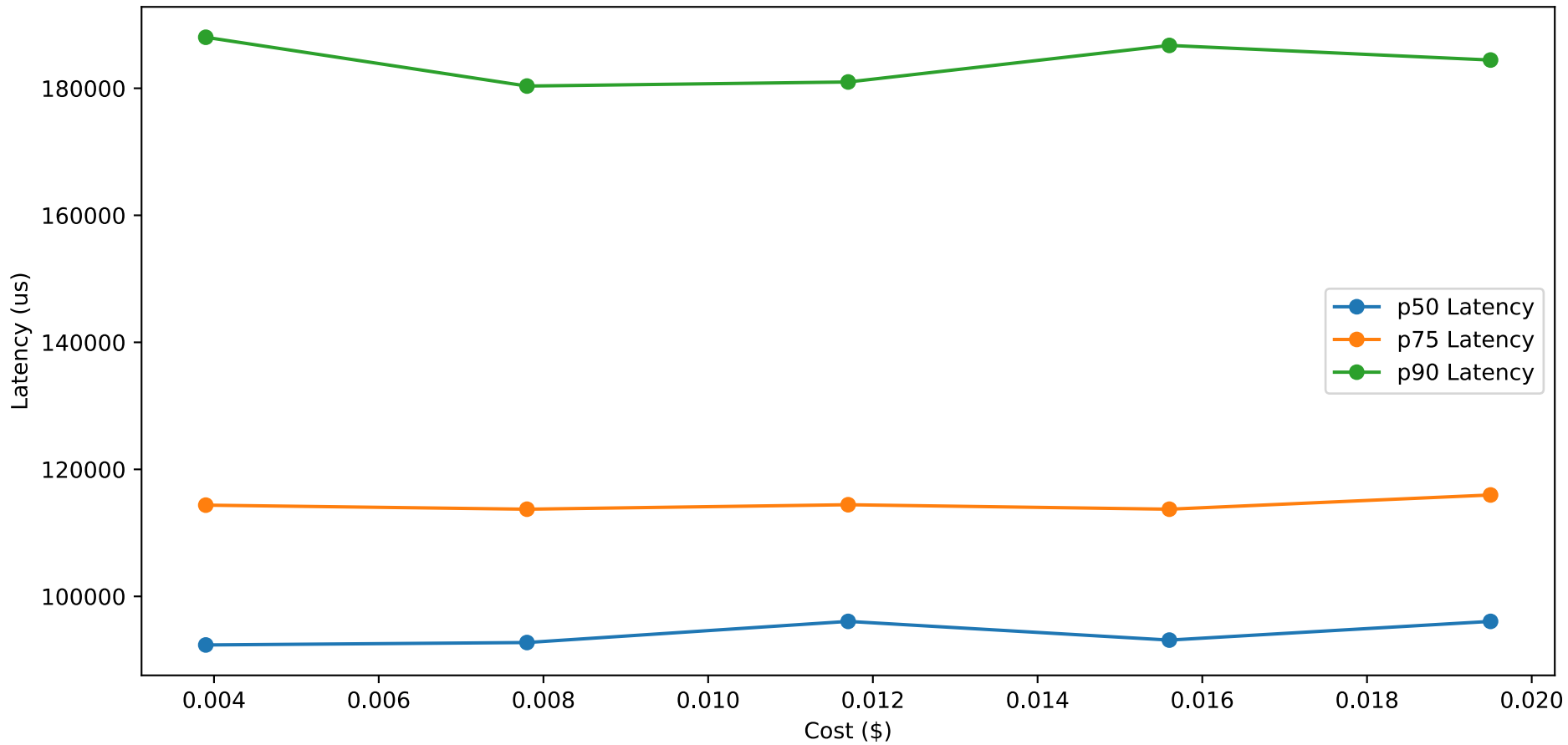


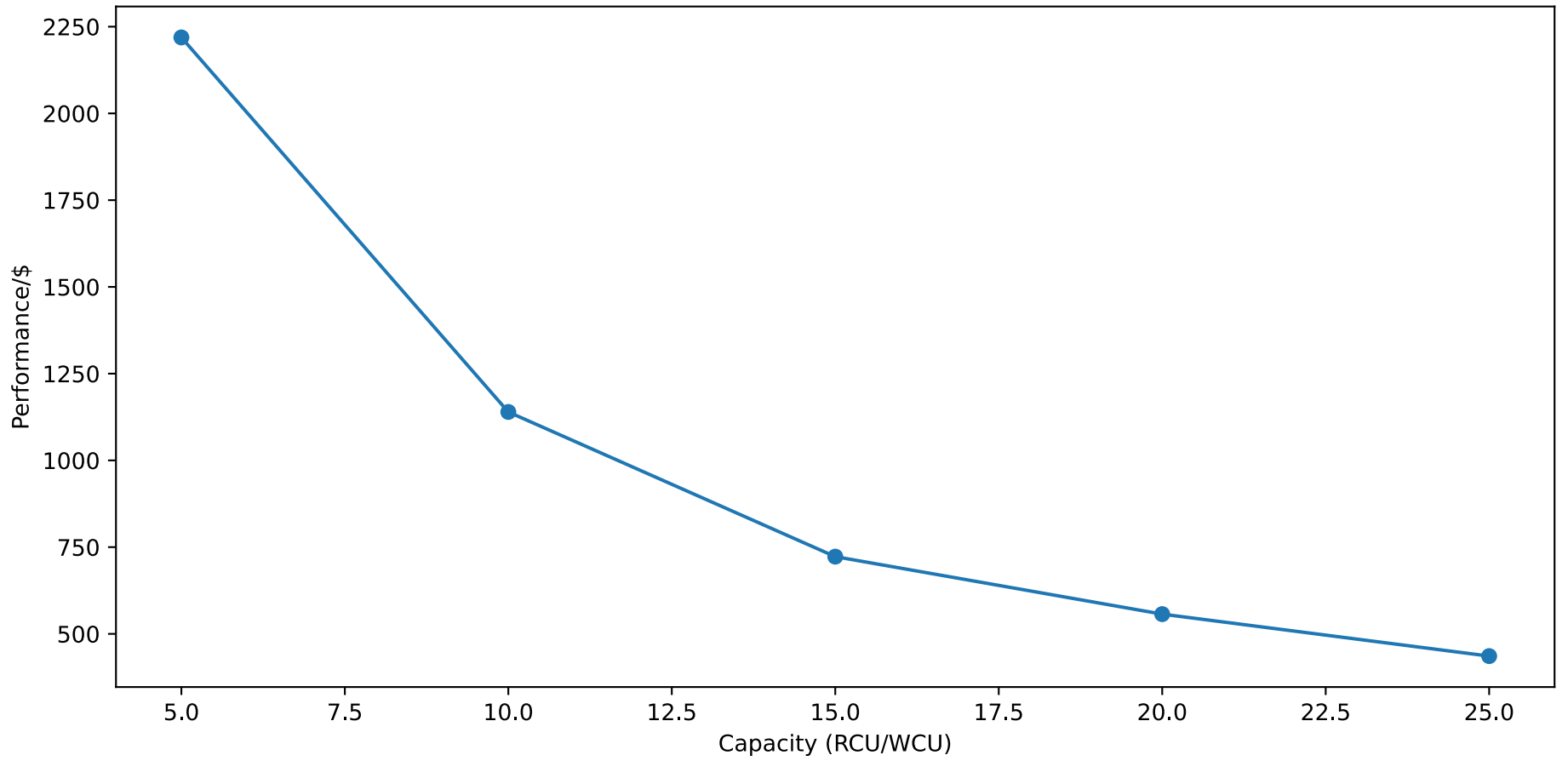
Workload: workloada - Throughput vs. Cost



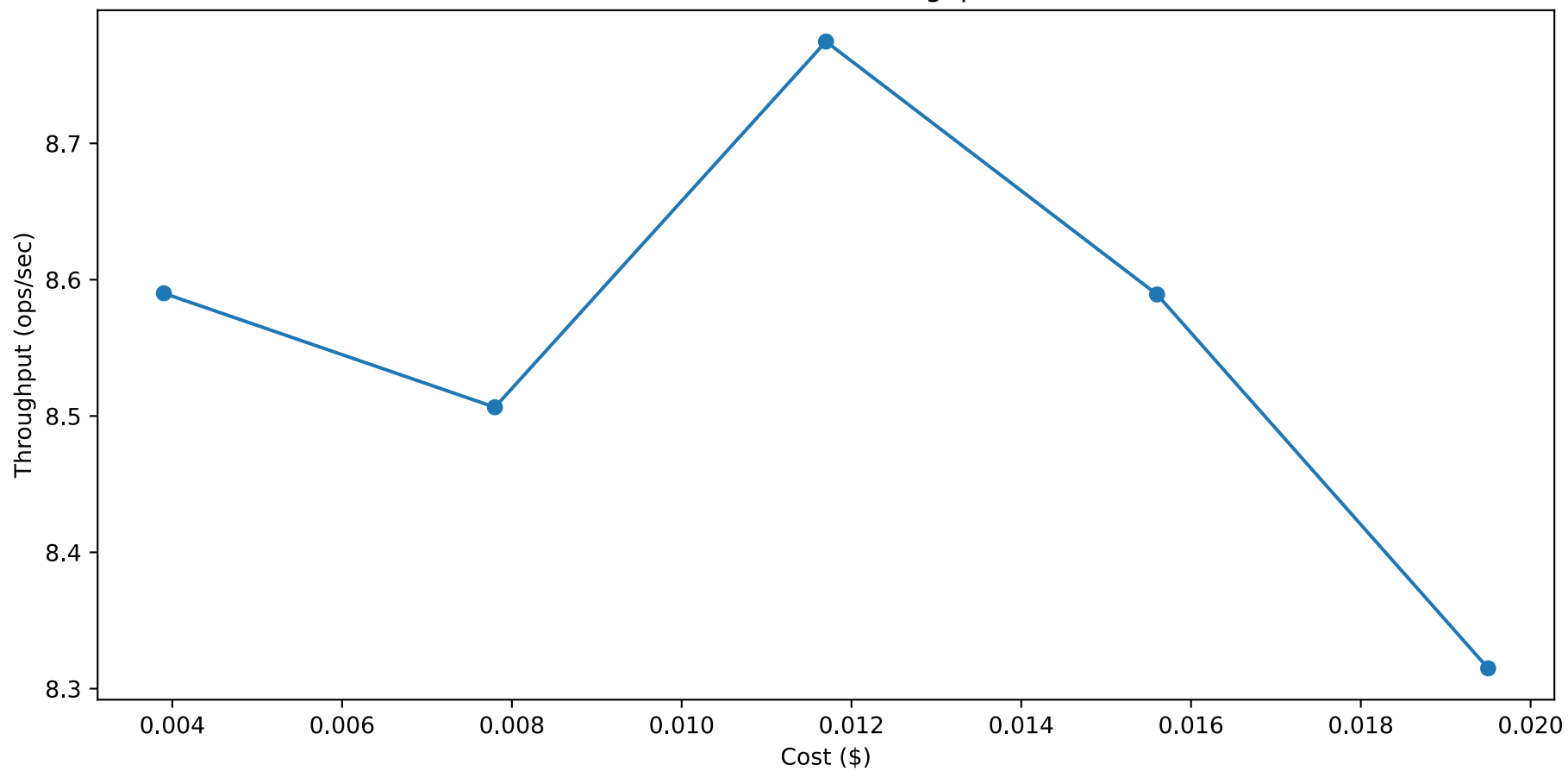
Workload: workloada - Latency vs. Cost



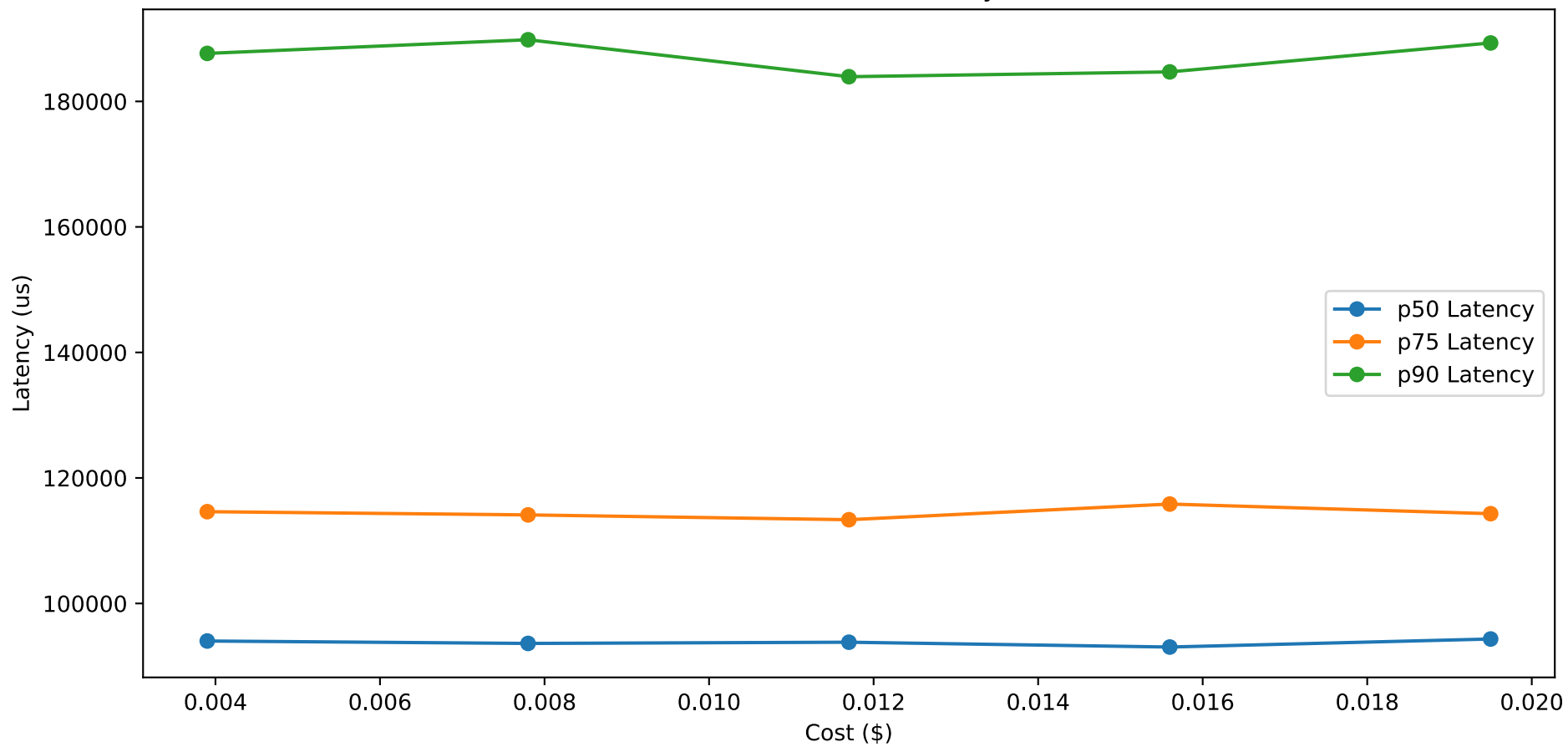
Workload: workloada - Performance/\$ vs. Capacity



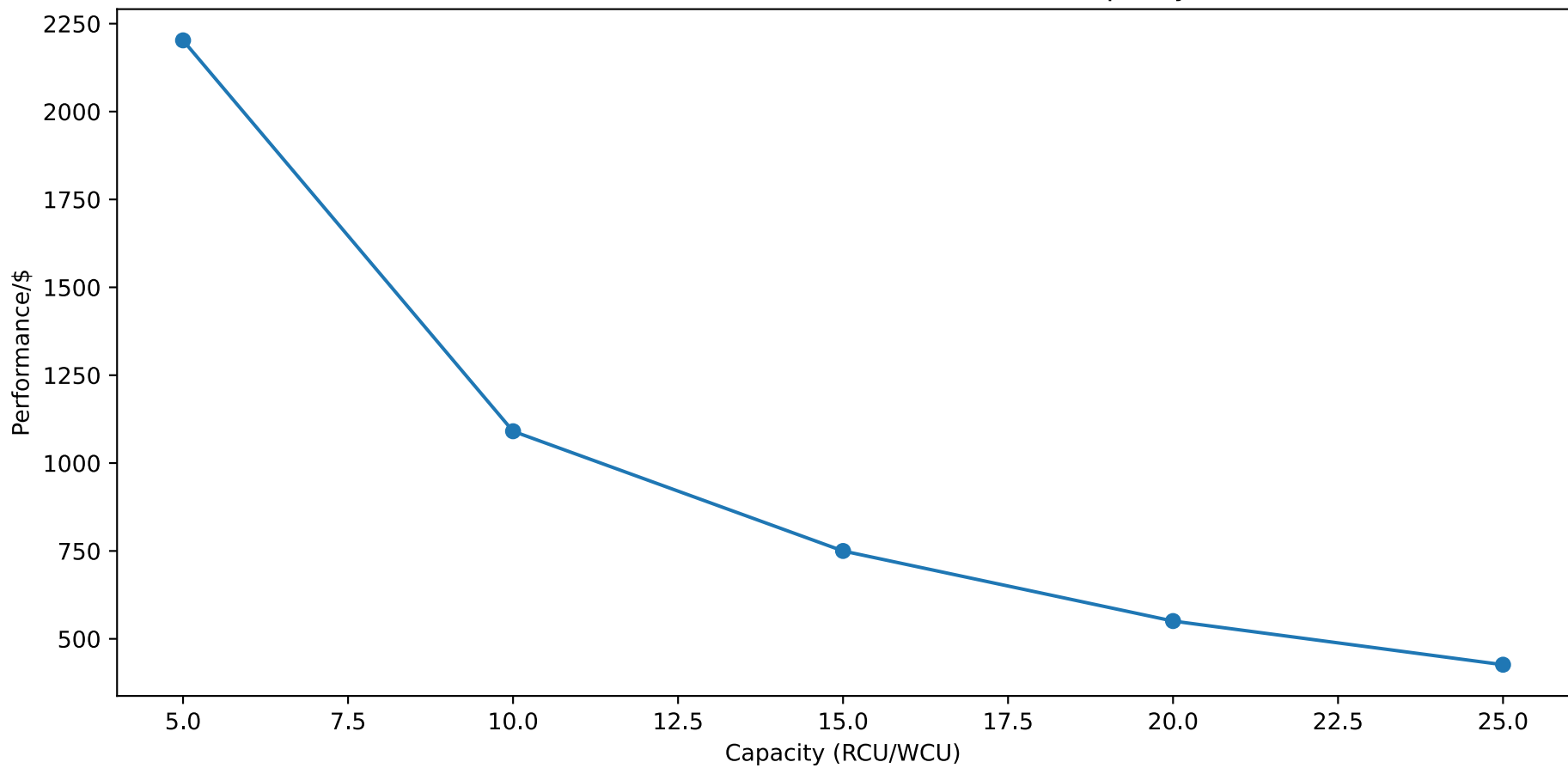
Workload: workloadb - Throughput vs. Cost



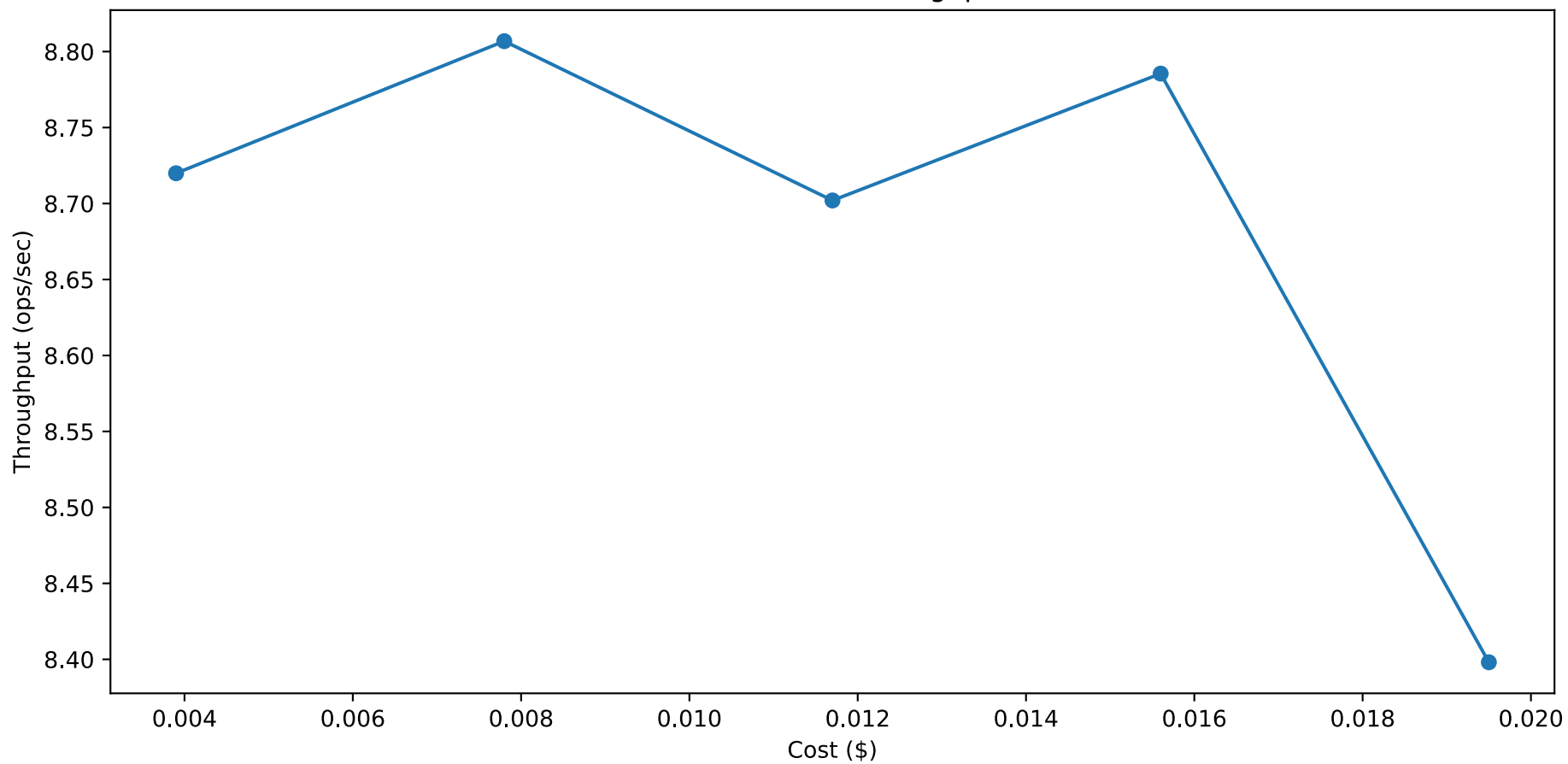
Workload: workloadb - Latency vs. Cost



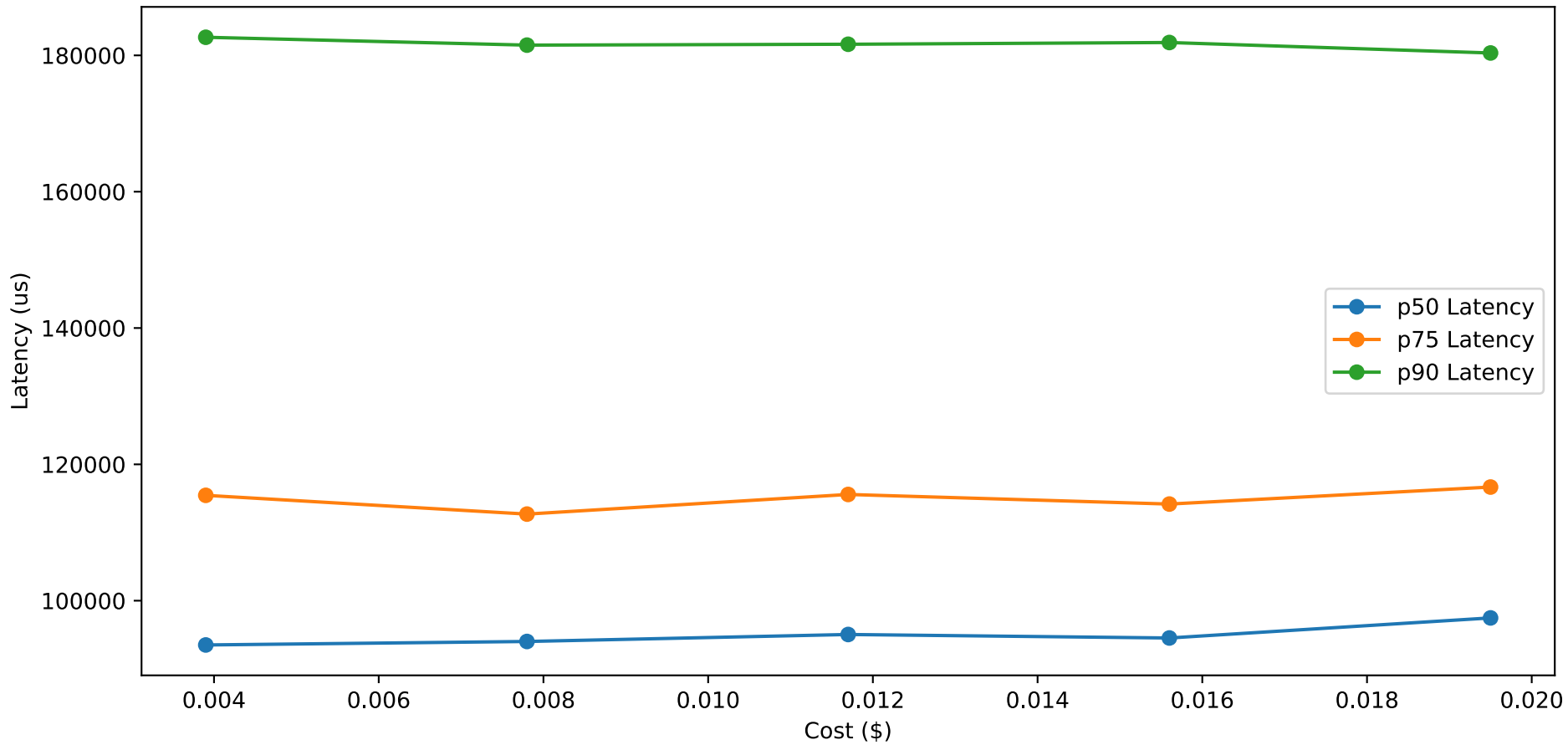
Workload: workloadb - Performance/\$ vs. Capacity



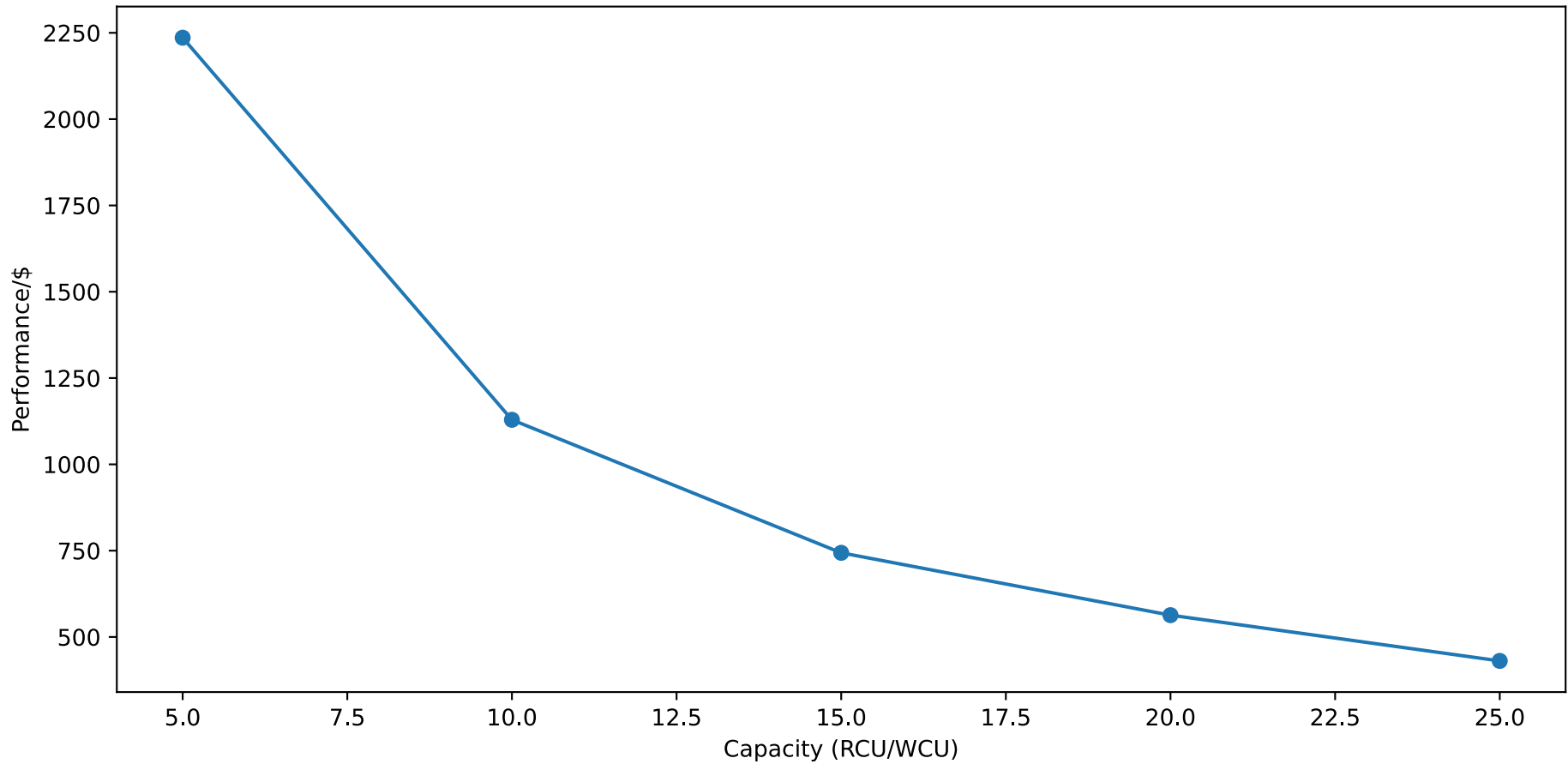
Workload: workloadc - Throughput vs. Cost



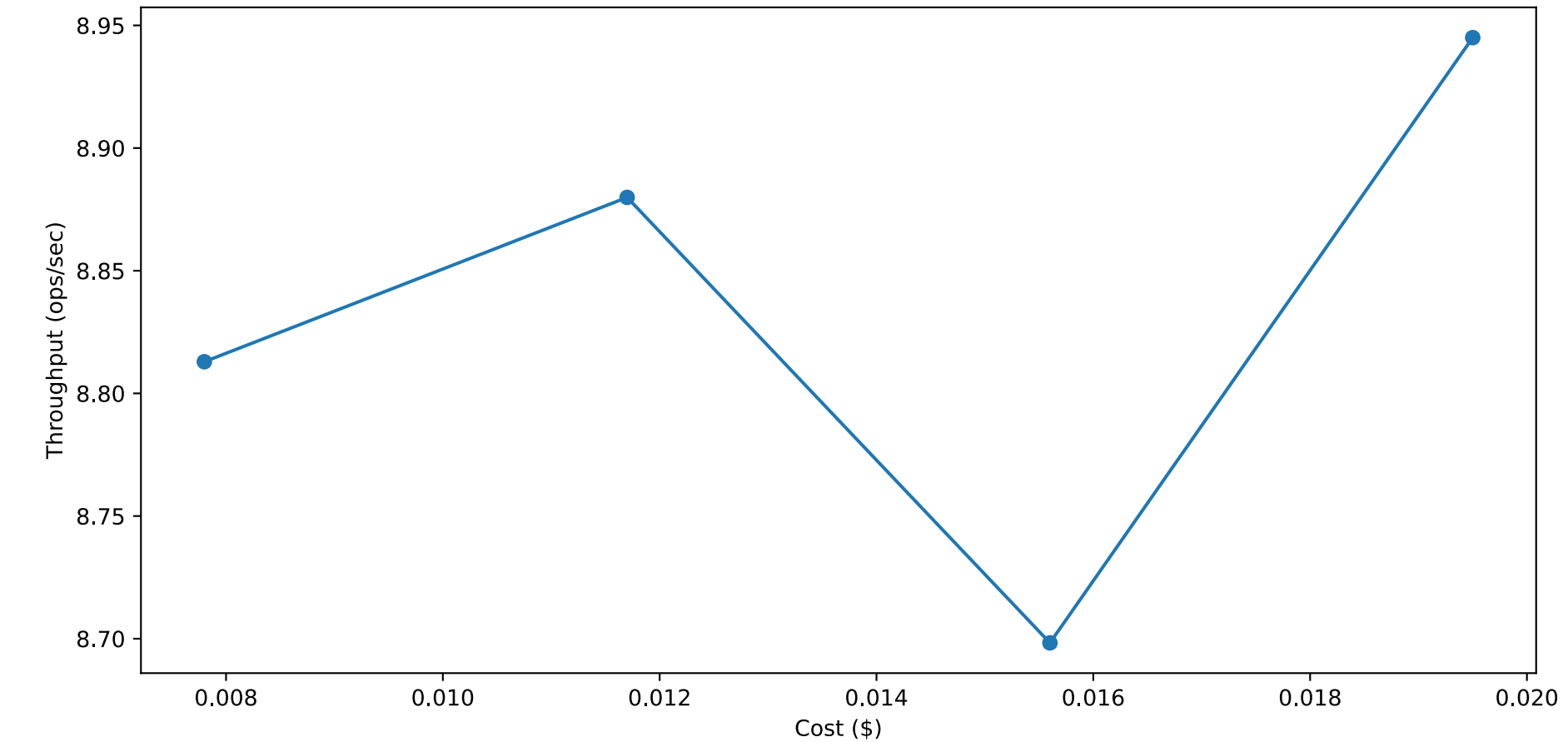
Workload: workloadc - Latency vs. Cost



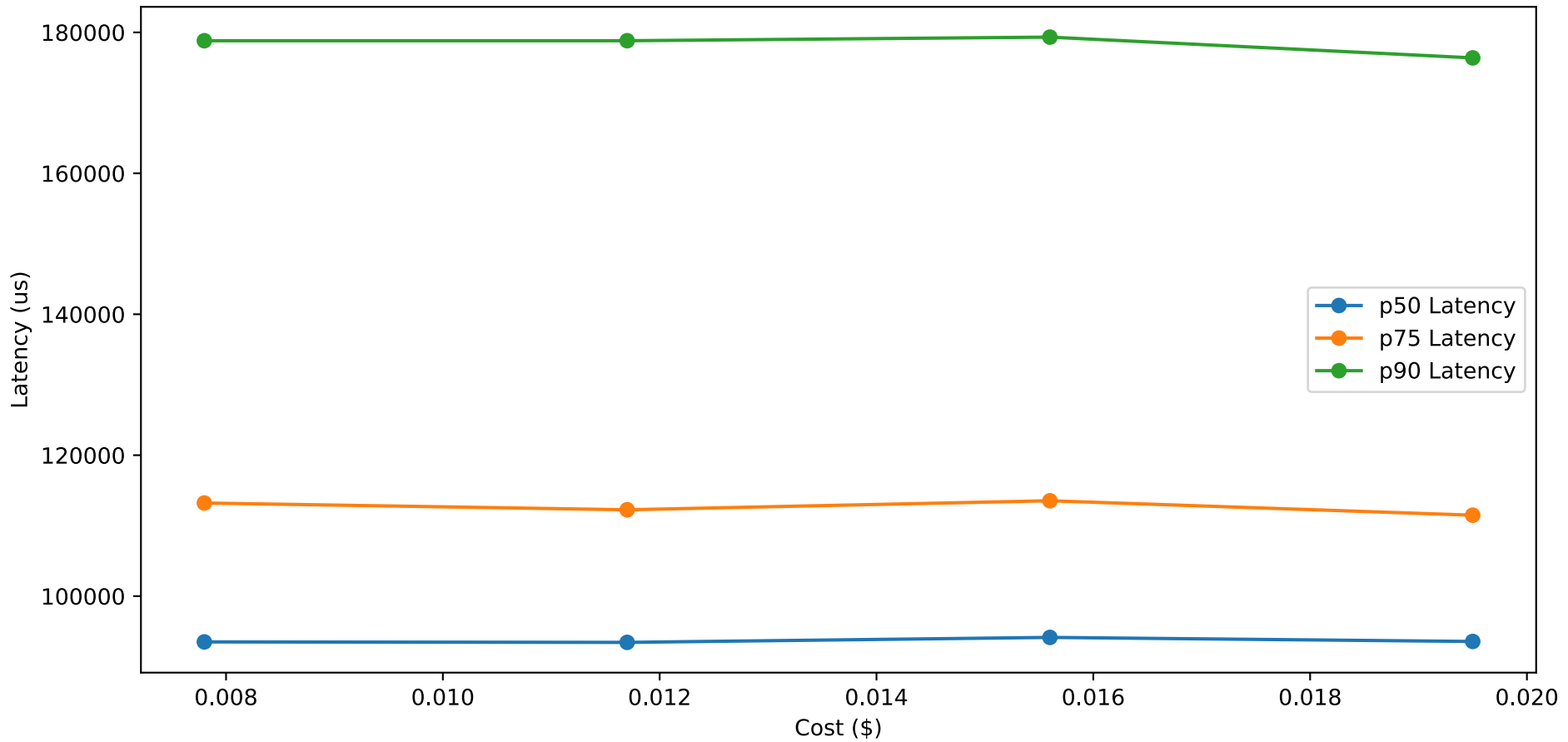
Workload: workloadc - Performance/\$ vs. Capacity



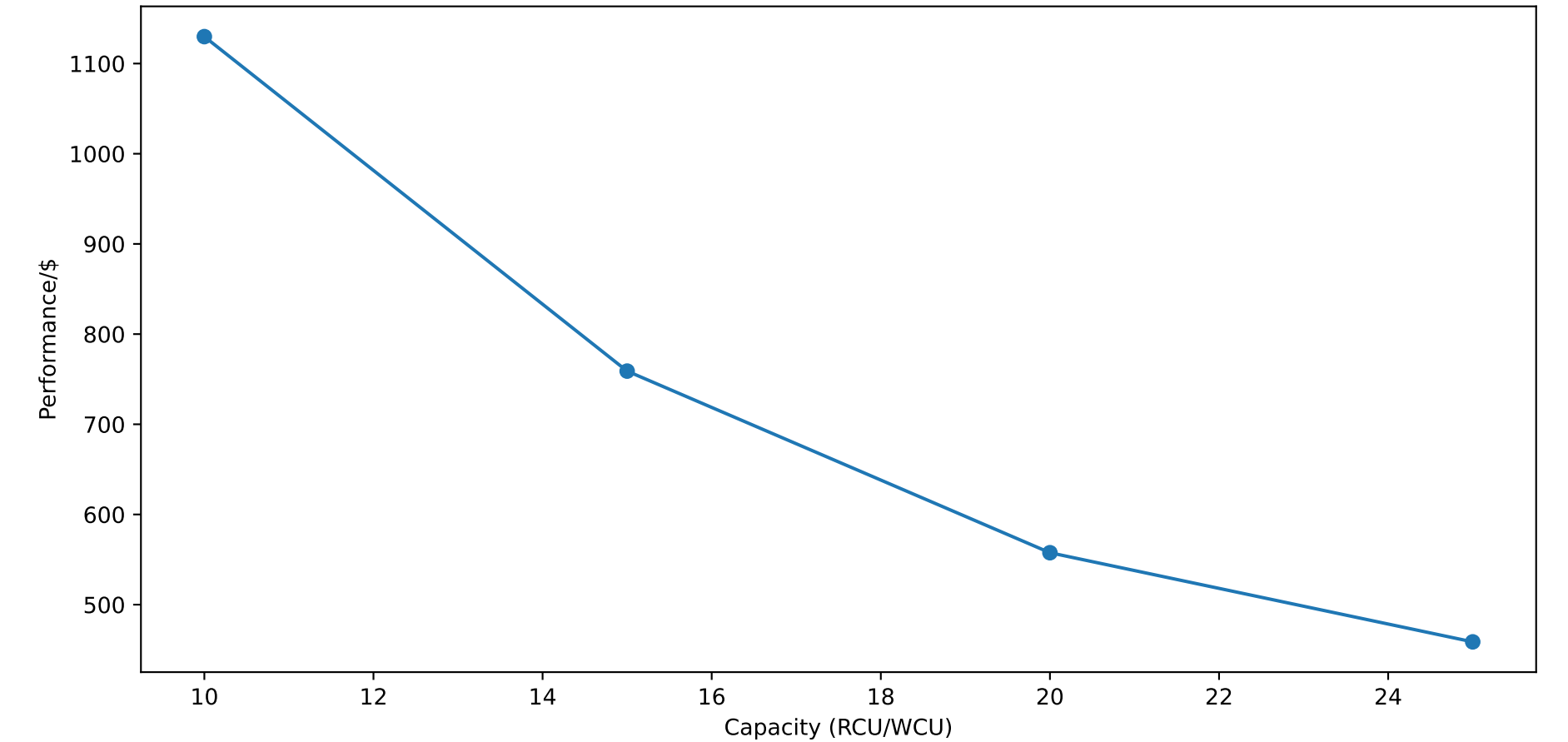
Workload: workloadadd - Throughput vs. Cost



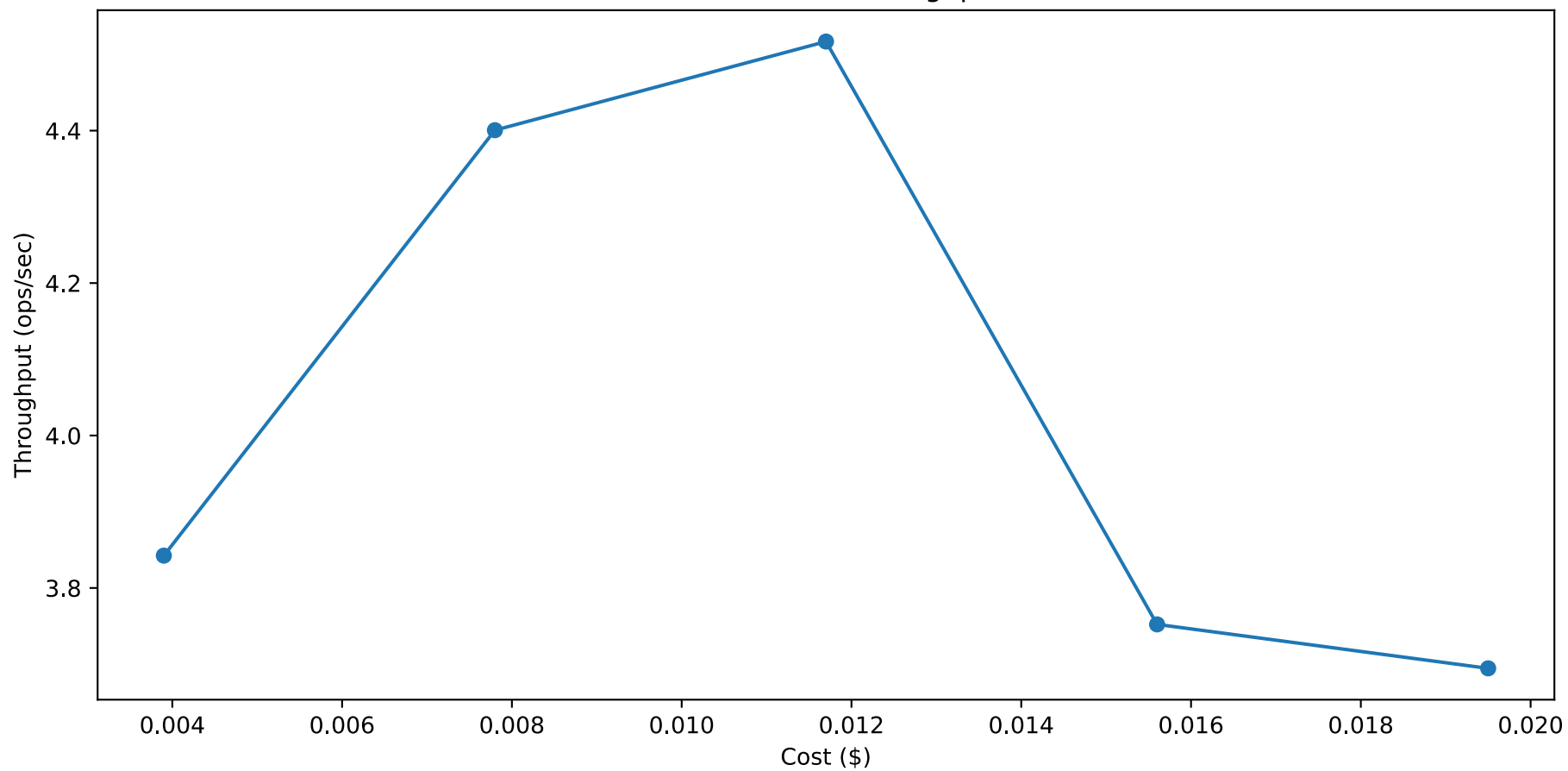
Workload: workloadadd - Latency vs. Cost



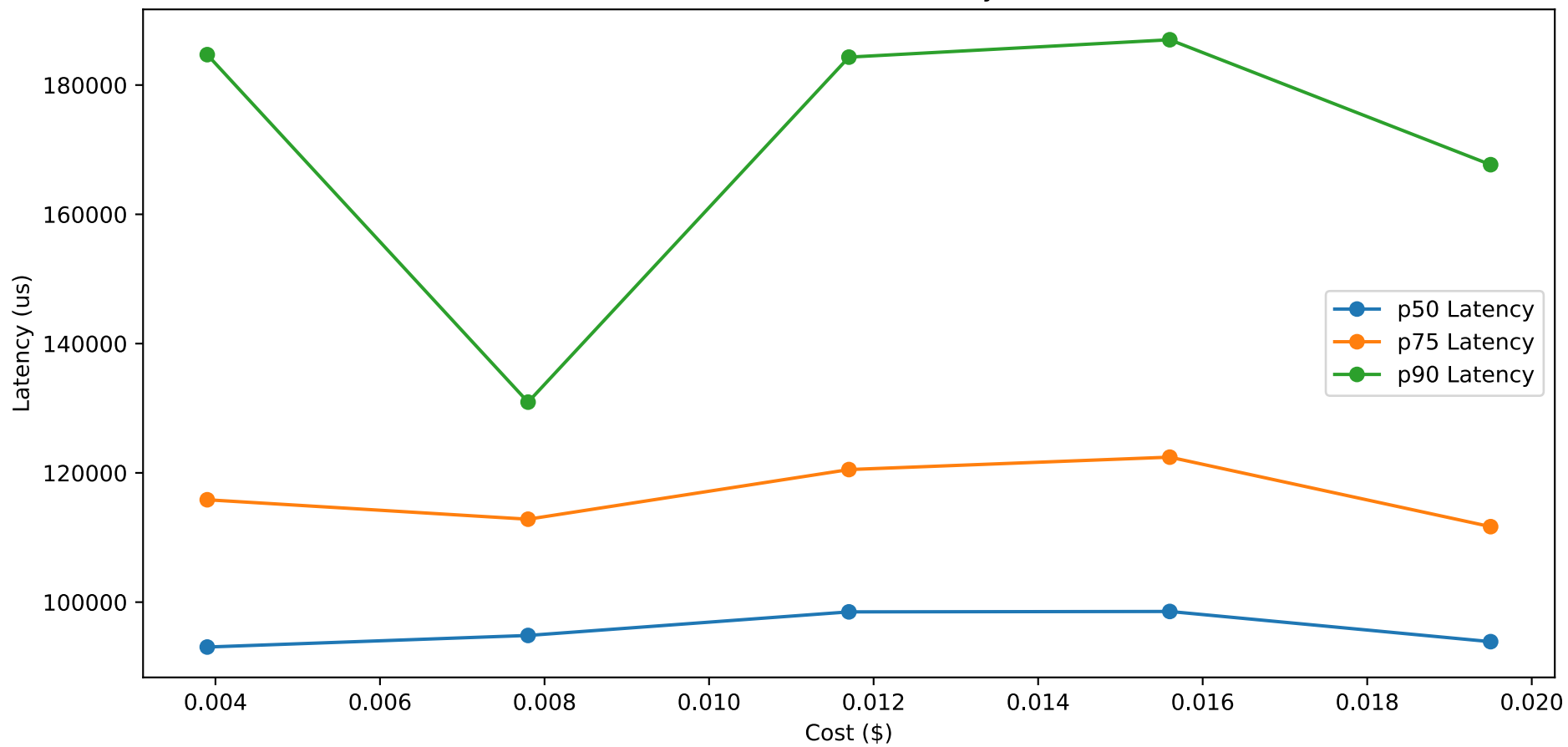
Workload: workloadadd - Performance/\$ vs. Capacity



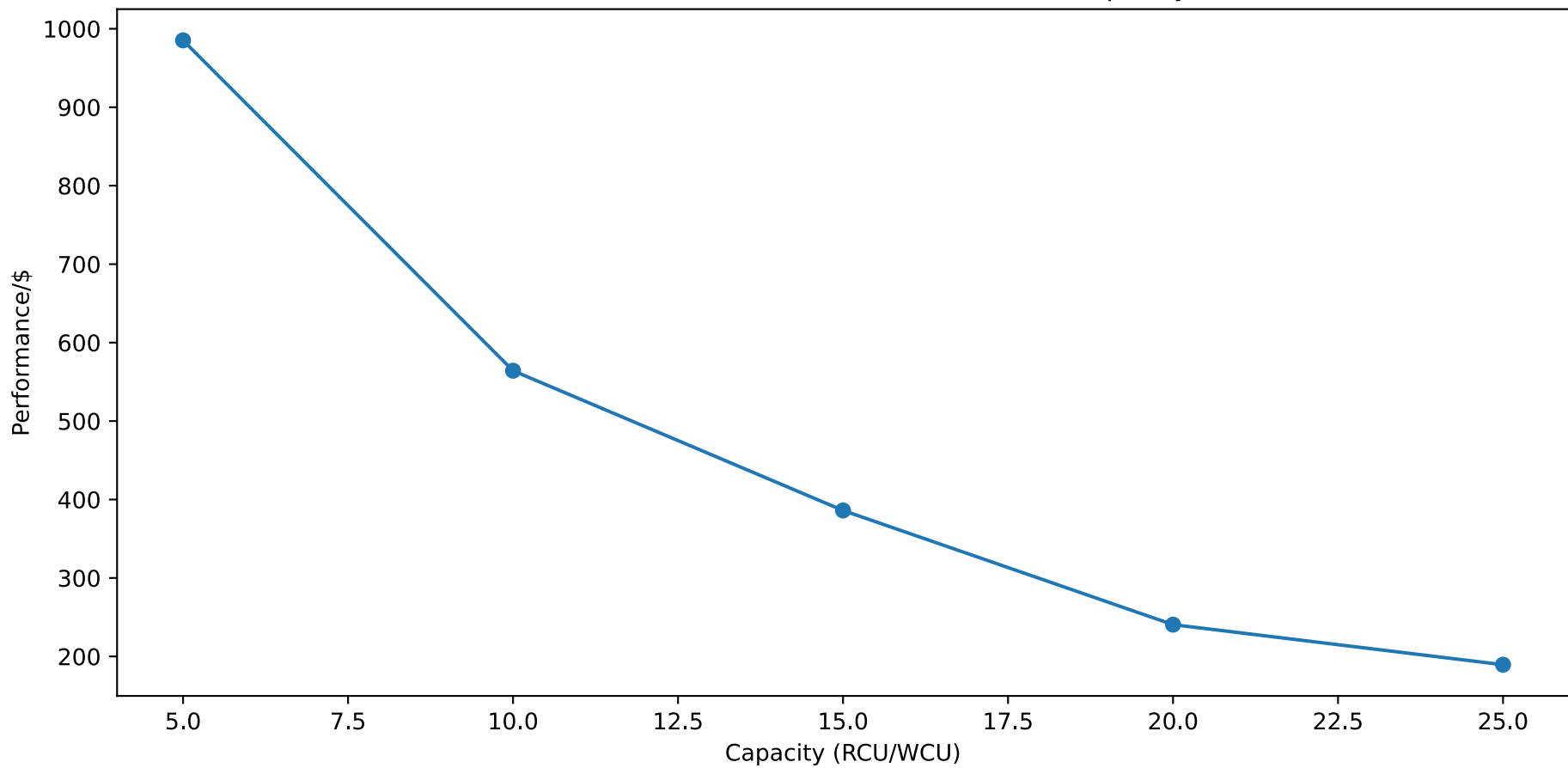
Workload: workload - Throughput vs. Cost



Workload: workload - Latency vs. Cost



Workload: workload - Performance/\$ vs. Capacity



Jagannath Prabhakaran

Analysis Report

The findings underscore the importance of tailoring capacity settings to the unique access patterns and demands of each workload to achieve the best balance between cost and performance. Periodically conducting such analyses is crucial to maintaining optimal configurations as application demands evolve.

Based on the graphs generated and the optimal point calculations, workloads a,b,c, and e had an optimal capacity of 5 RCU/WCU. However, for workload d the optimal point was 10 RCU/WCU, which suggests that in general lower capacities may be more efficient for Performance/\$, but there are instances where a higher capacity is beneficial. For Latency, there was not too much discernible correlation between the difference in latency percentiles, but this is likely attributed to my network variability. Overall this underscores the importance of tailoring capacity to specific access patterns and demands to efficiently optimize performance and cost.