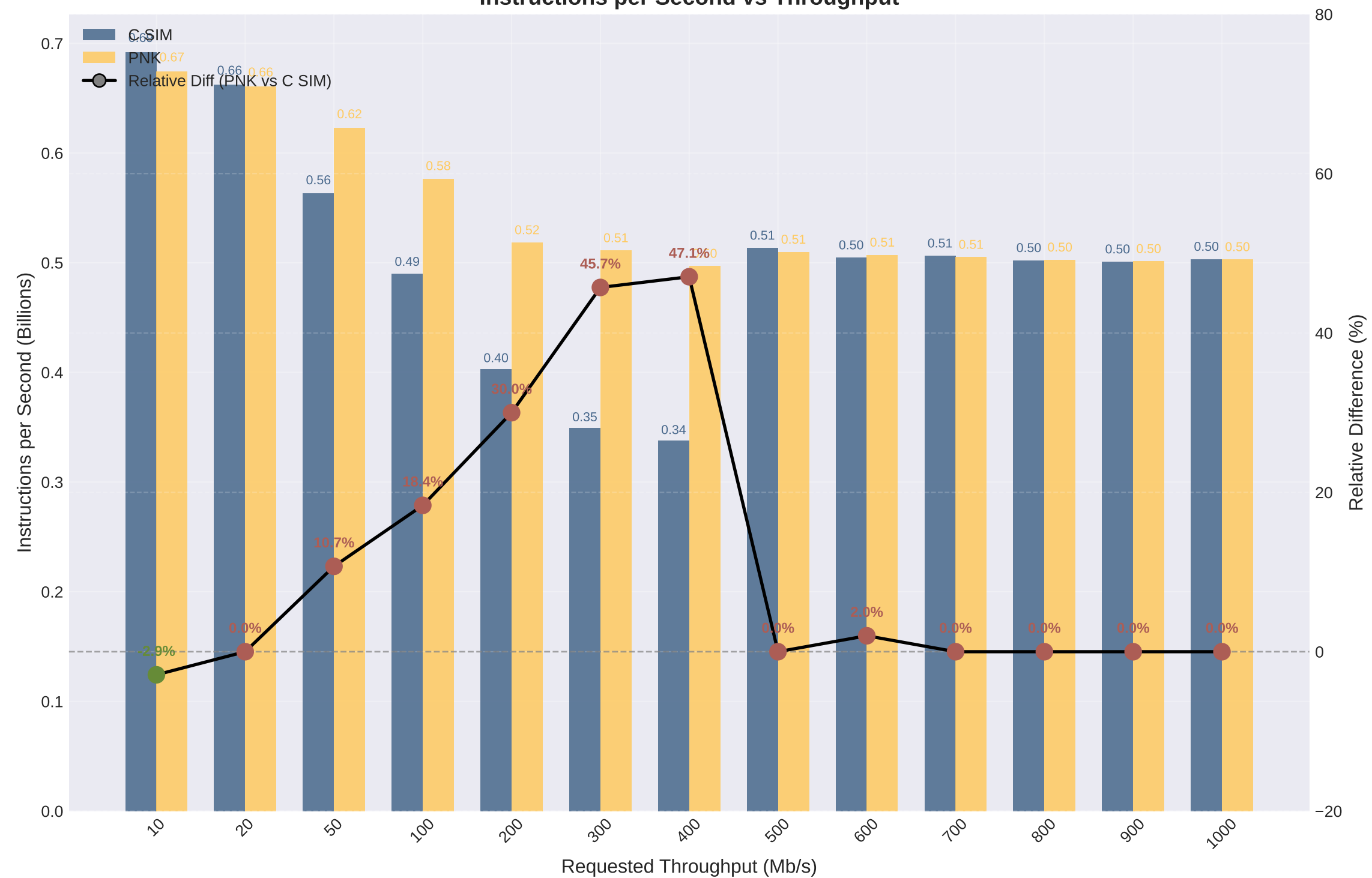
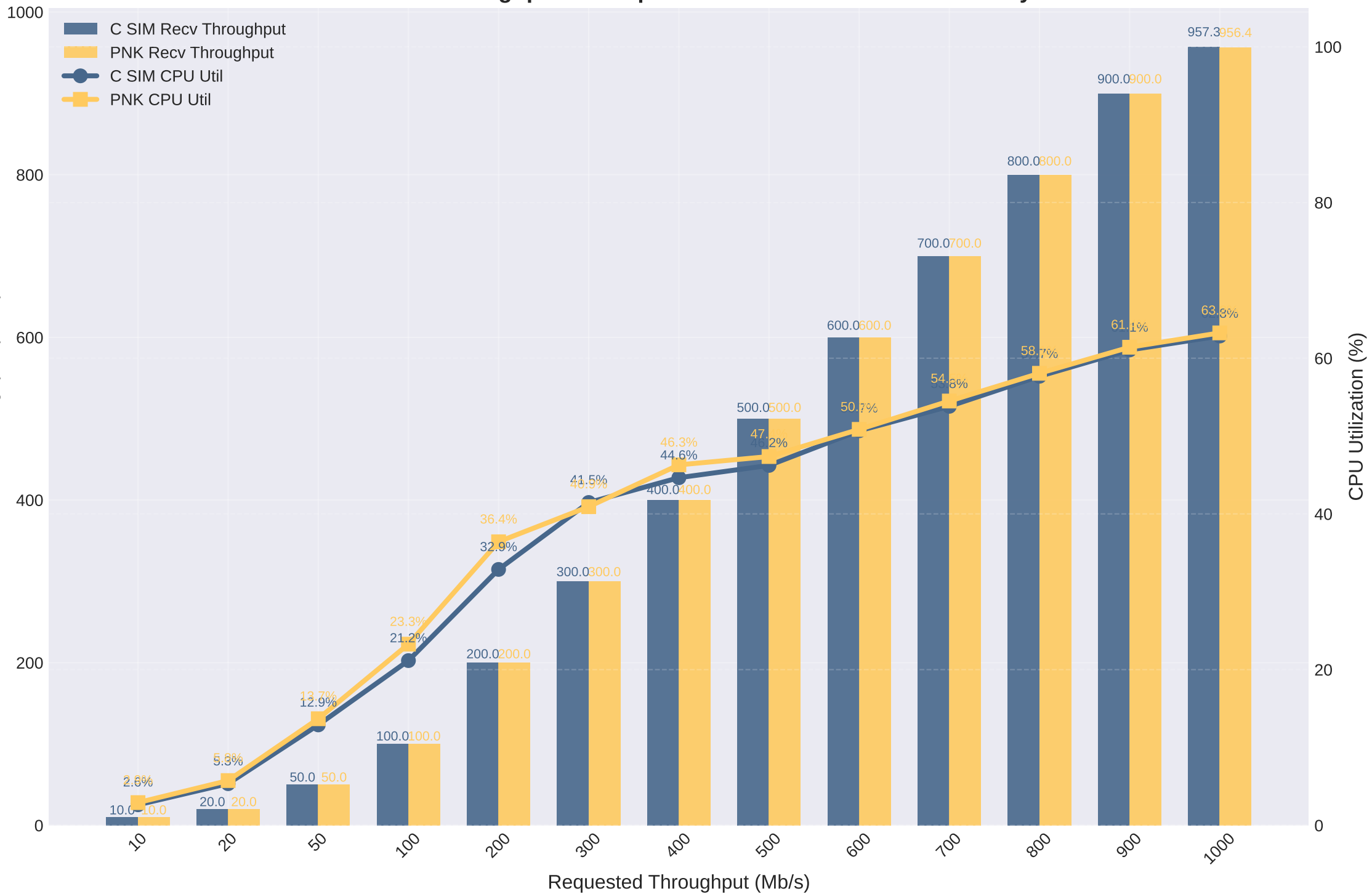


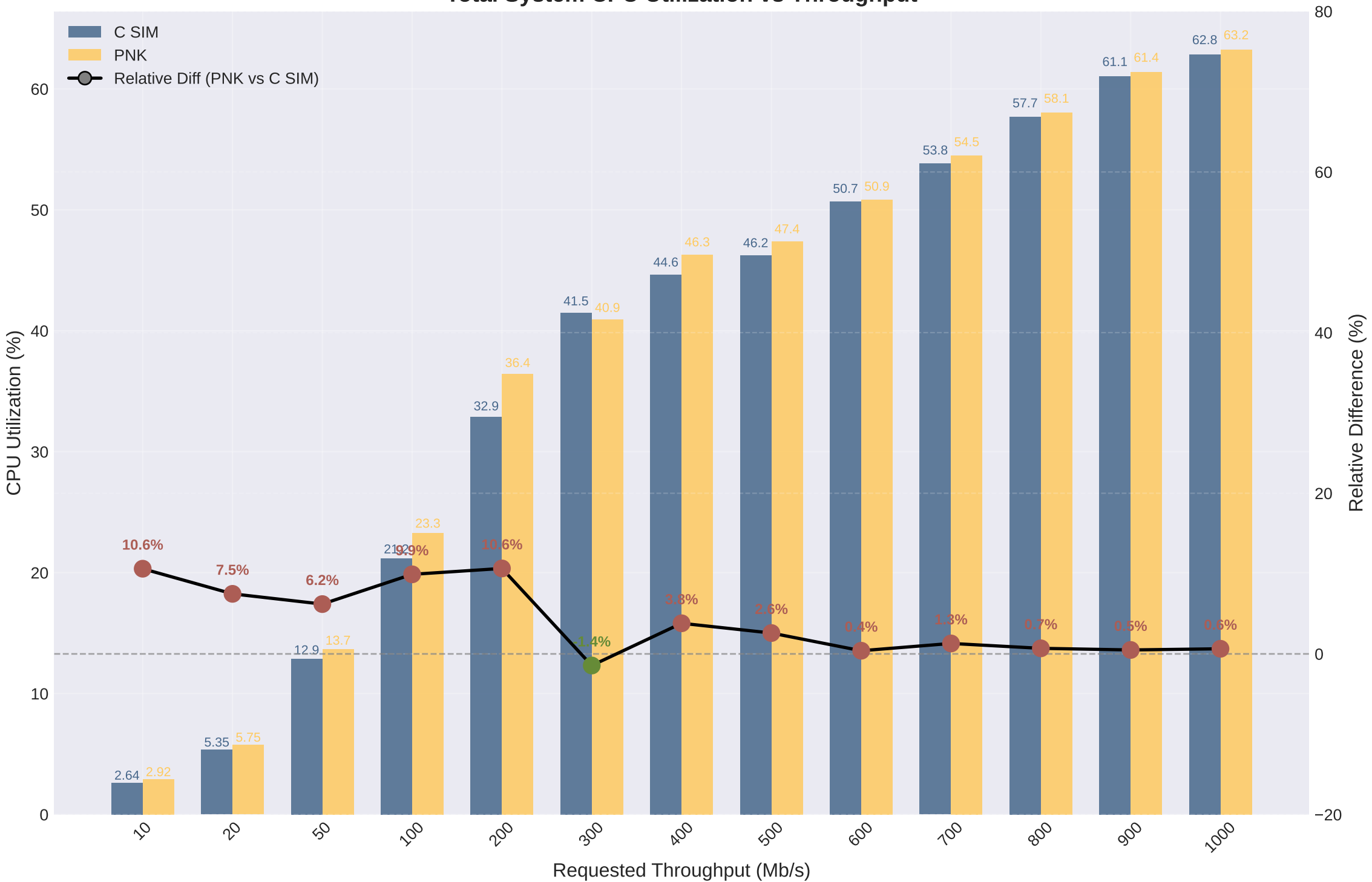
# Instructions per Second vs Throughput



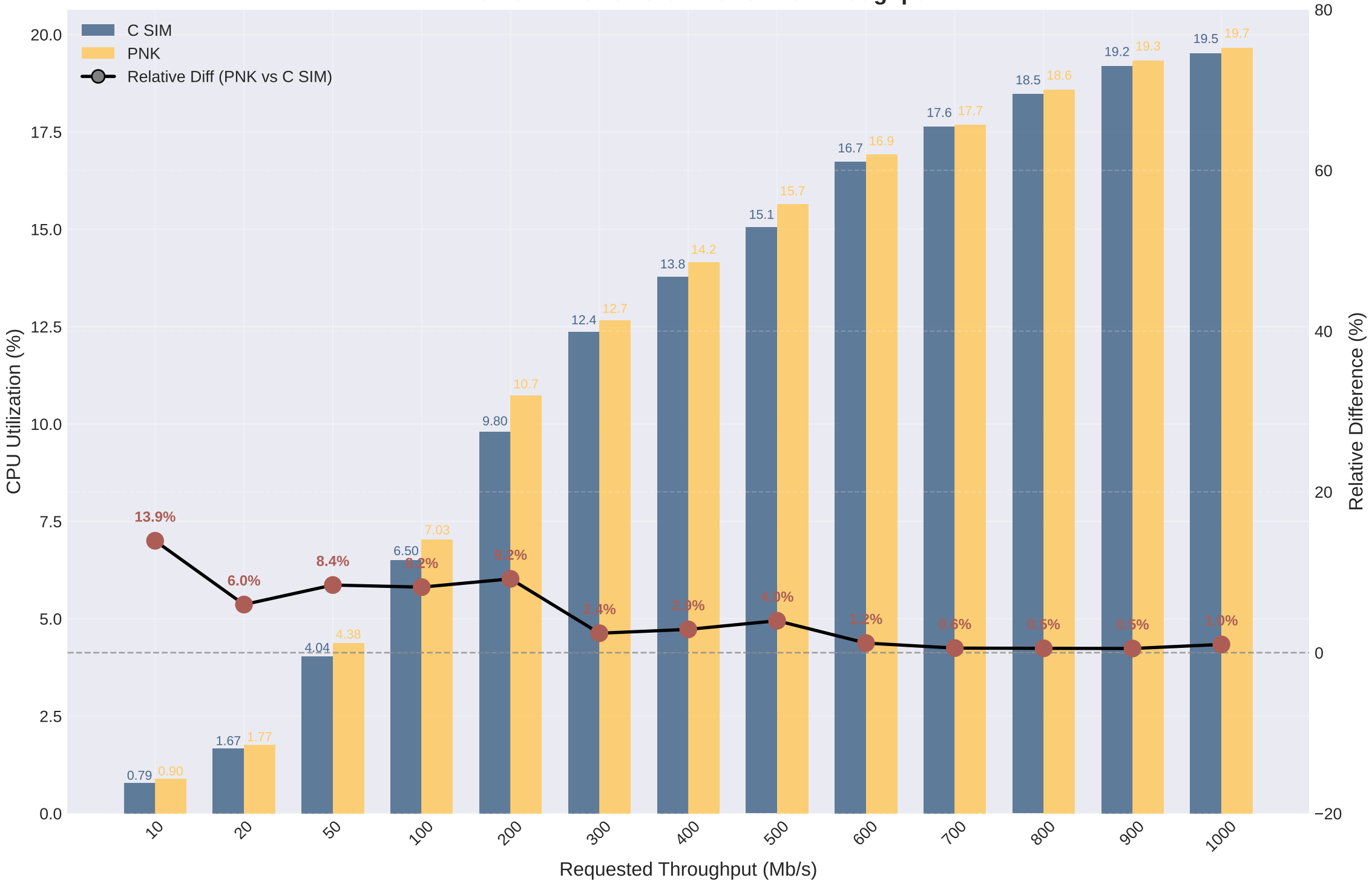
# Received Throughput vs Requested with CPU Utilization Overlay



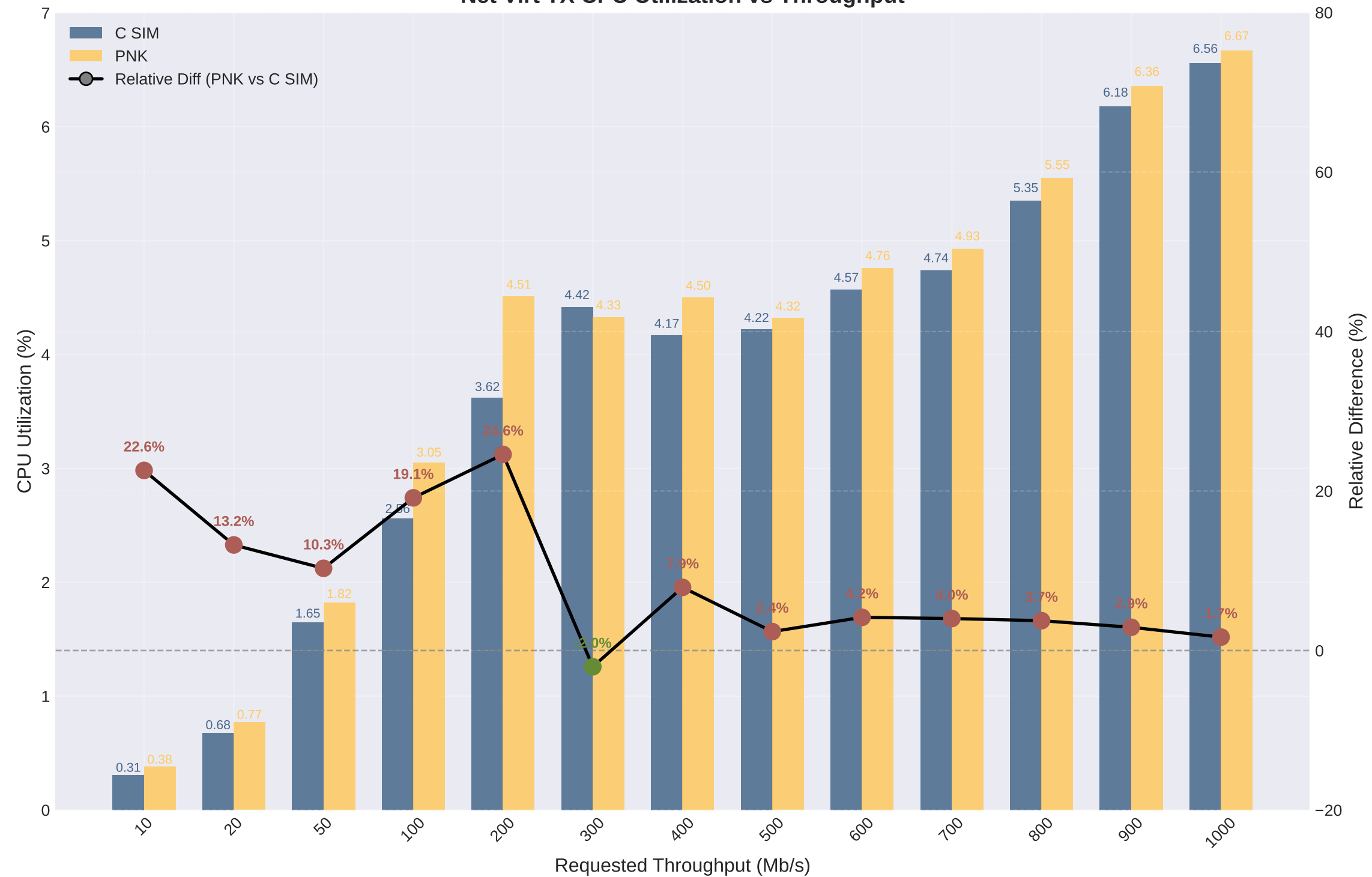
# Total System CPU Utilization vs Throughput



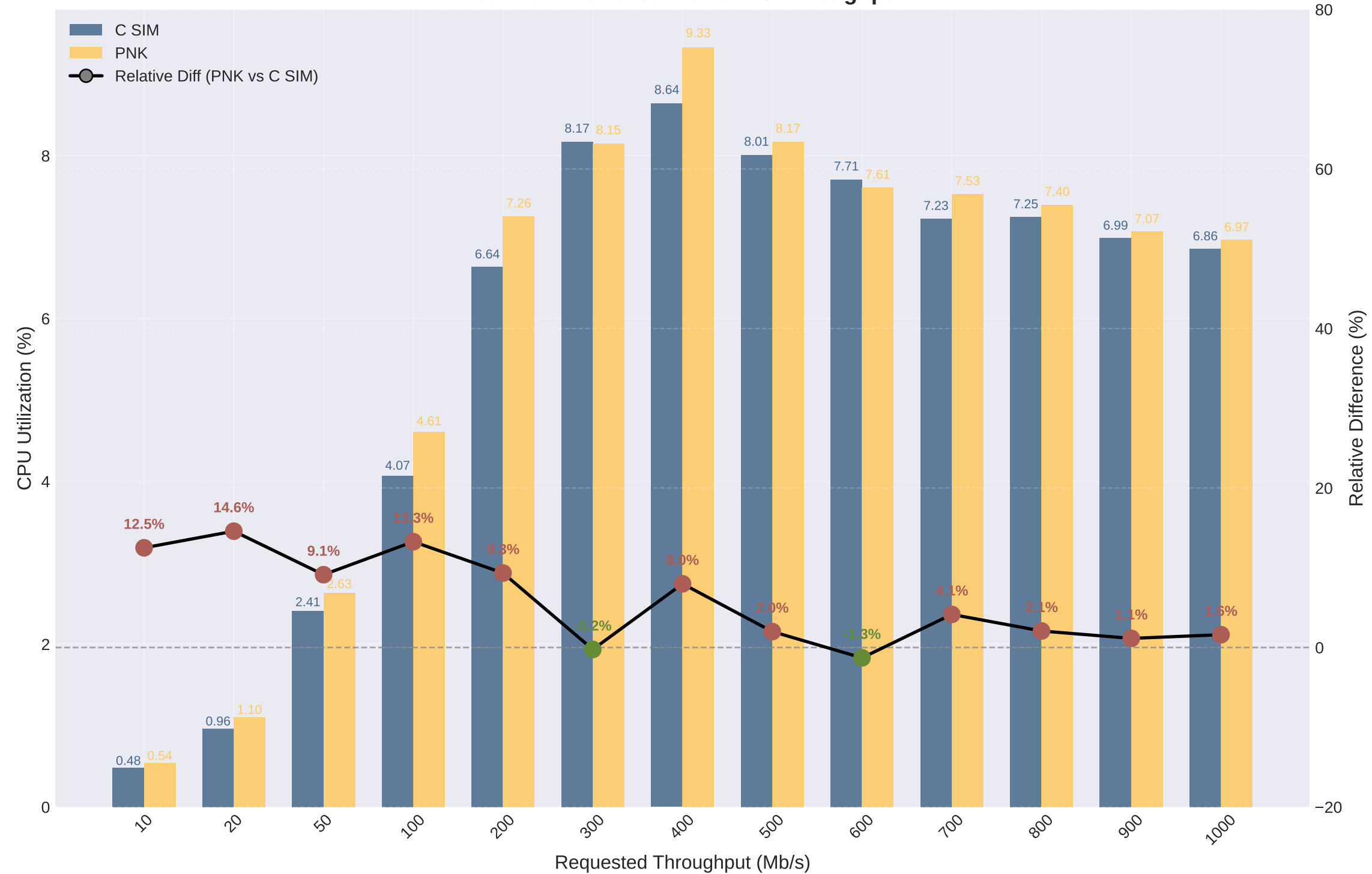
# Ethernet Driver CPU Utilization vs Throughput



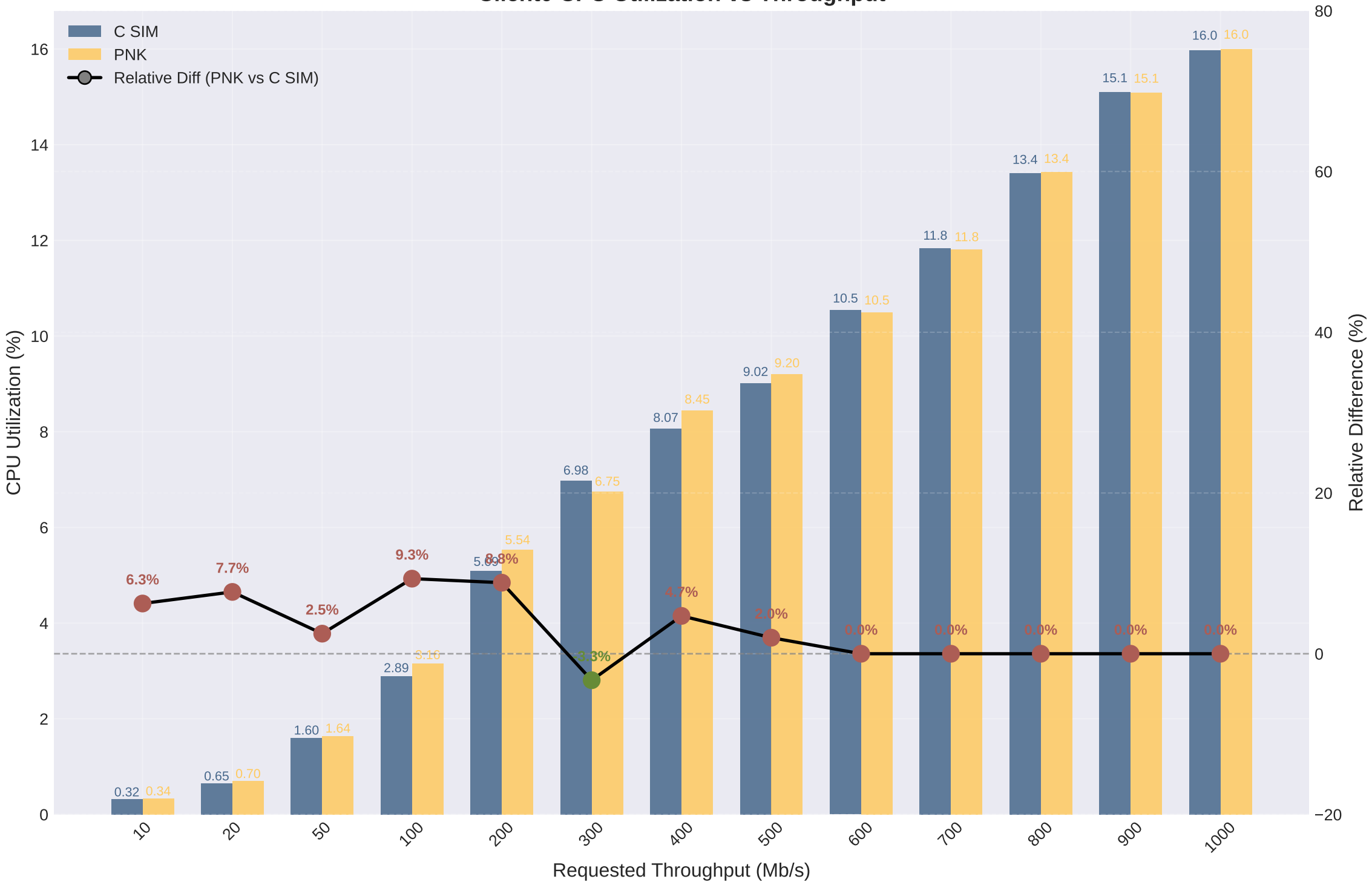
# Net Virt TX CPU Utilization vs Throughput



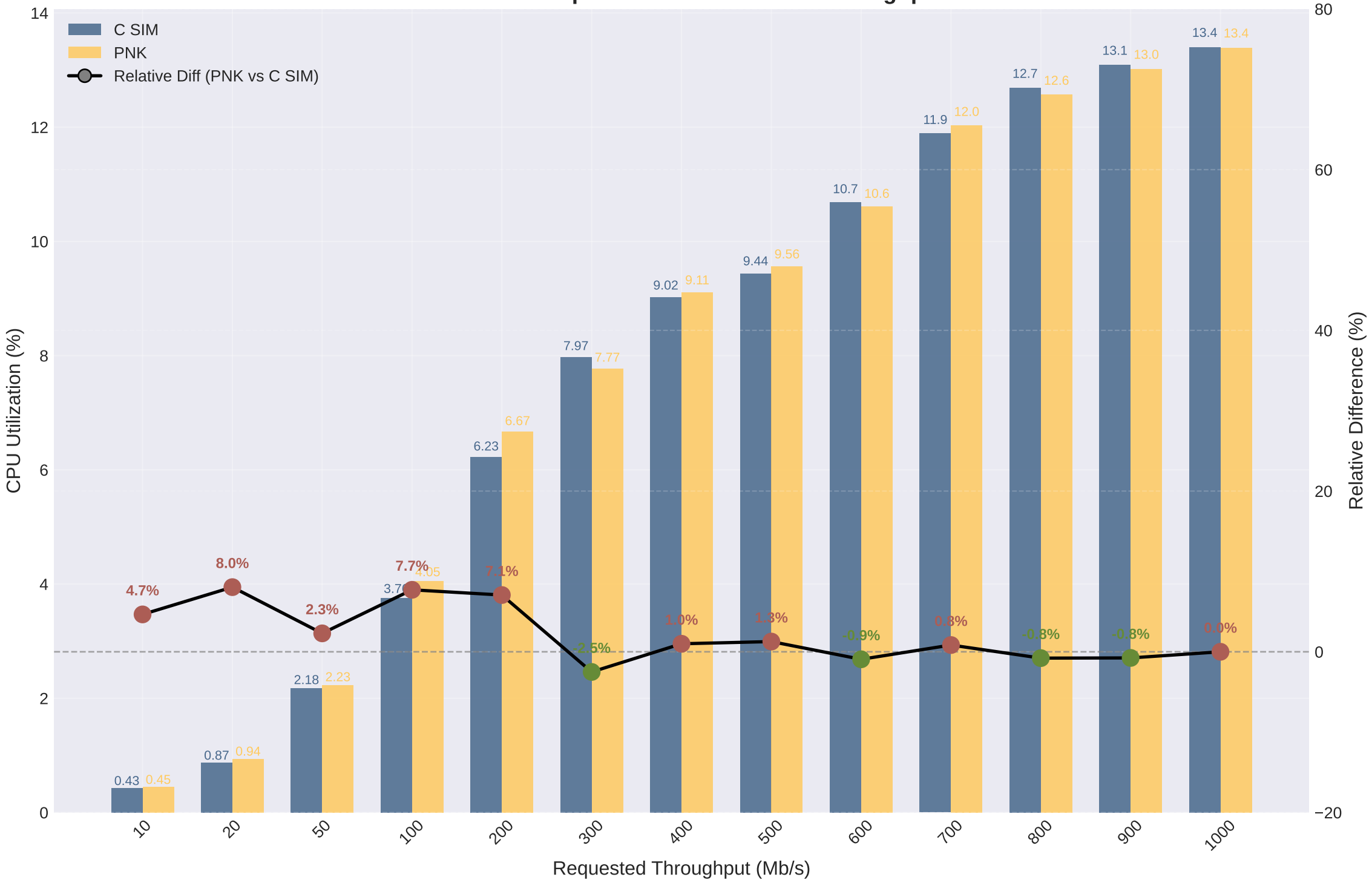
# Net Virt RX CPU Utilization vs Throughput



# Client0 CPU Utilization vs Throughput

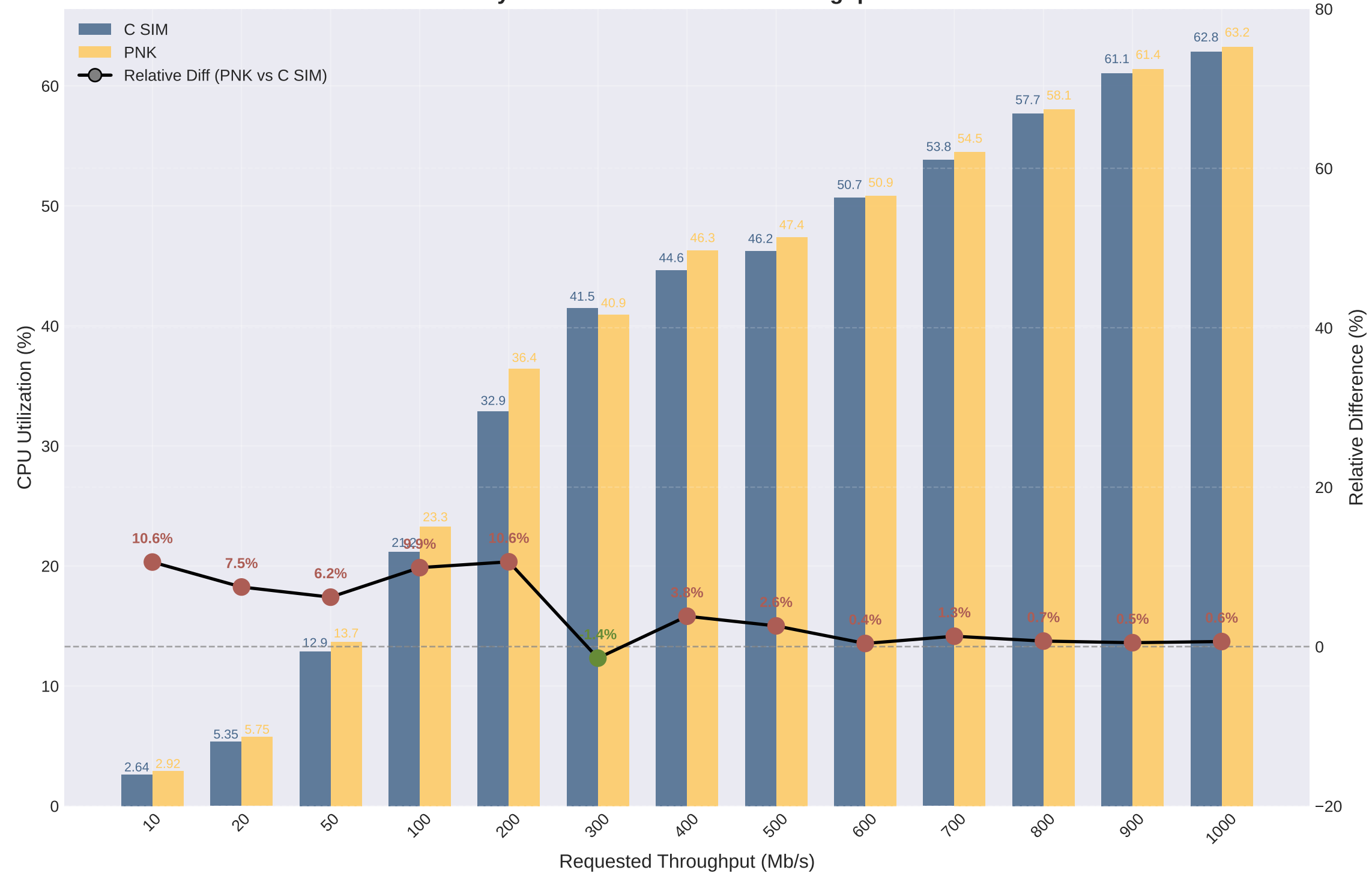


# Client0 Net Copier CPU Utilization vs Throughput

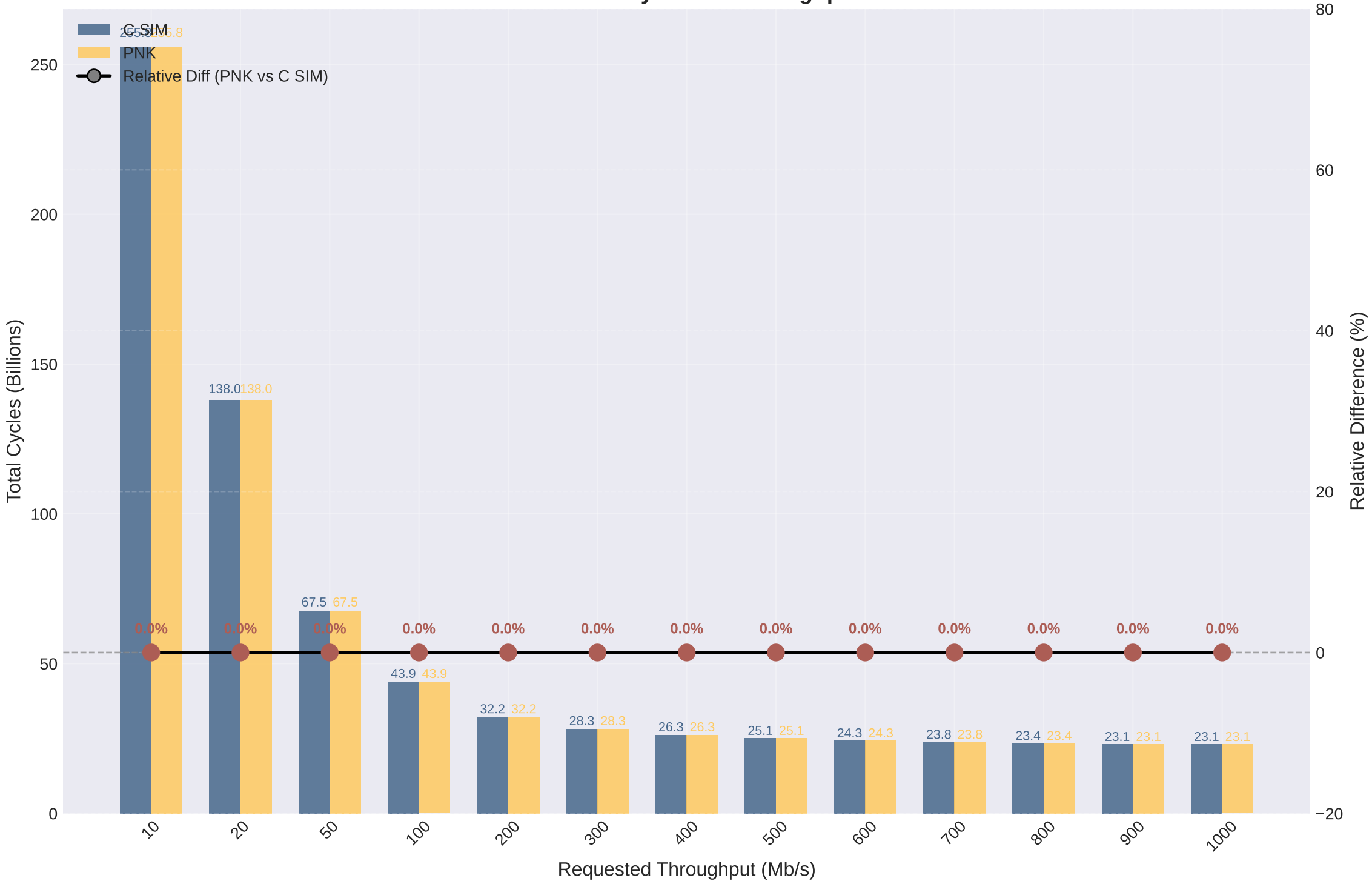




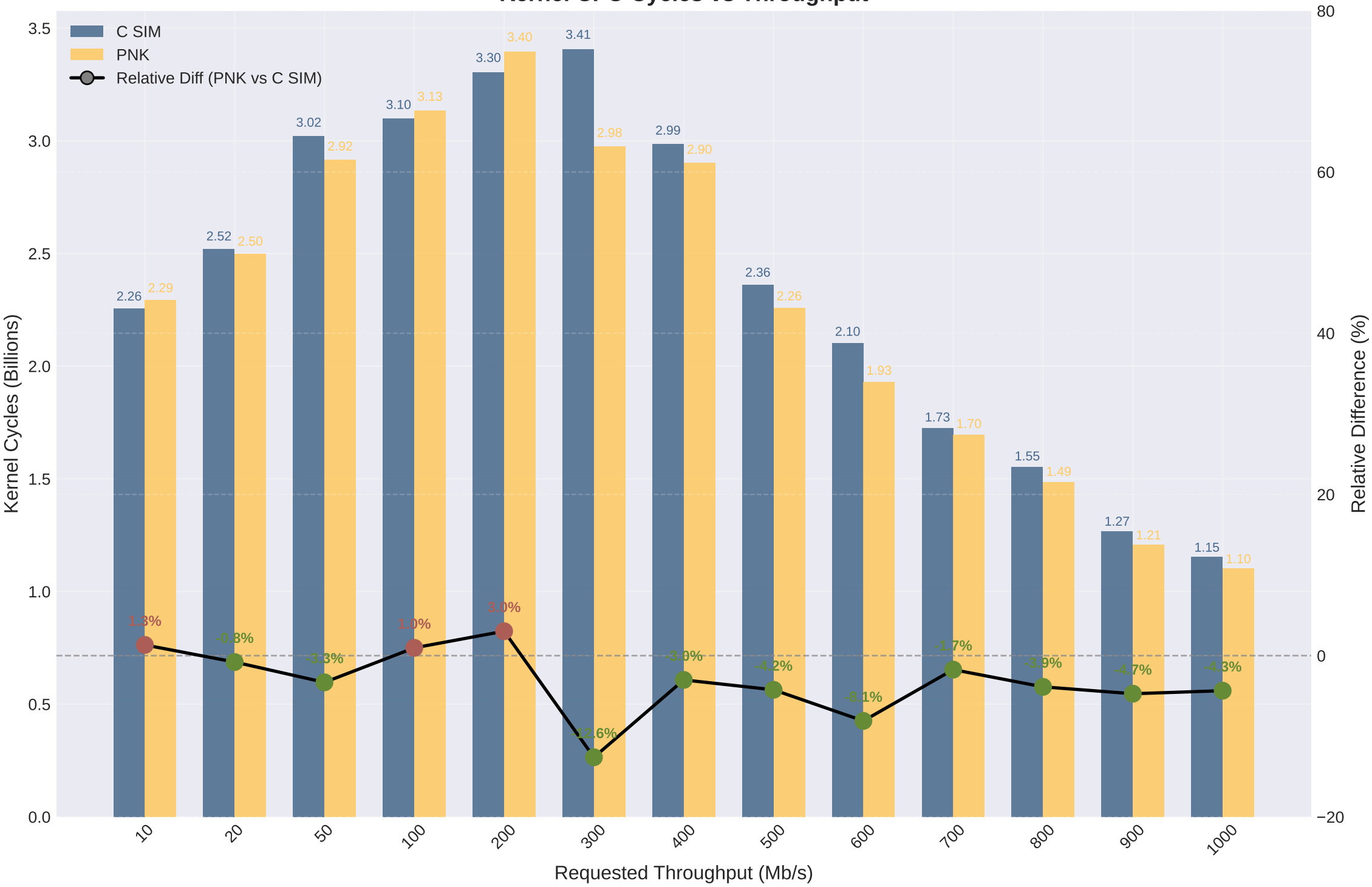
# System CPU Utilization vs Throughput



# Total CPU Cycles vs Throughput



# Kernel CPU Cycles vs Throughput



# User CPU Cycles vs Throughput

User Cycles (Billions)

14  
12  
10  
8  
6  
4  
2  
0

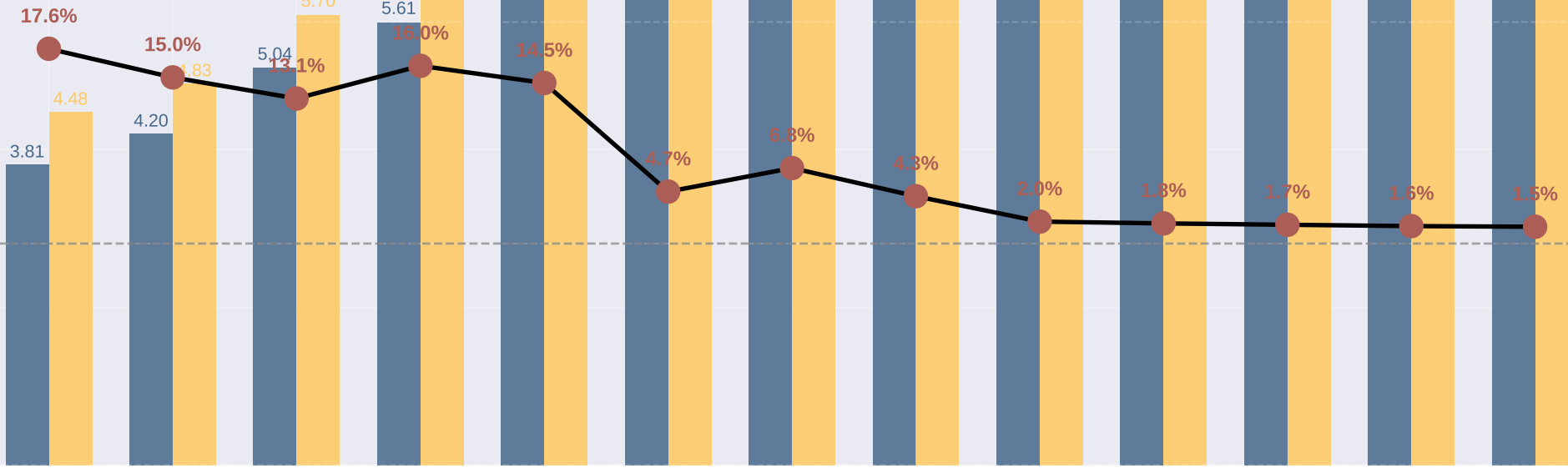
- C SIM
- PNK
- Relative Diff (PNK vs C SIM)

Relative Difference (%)

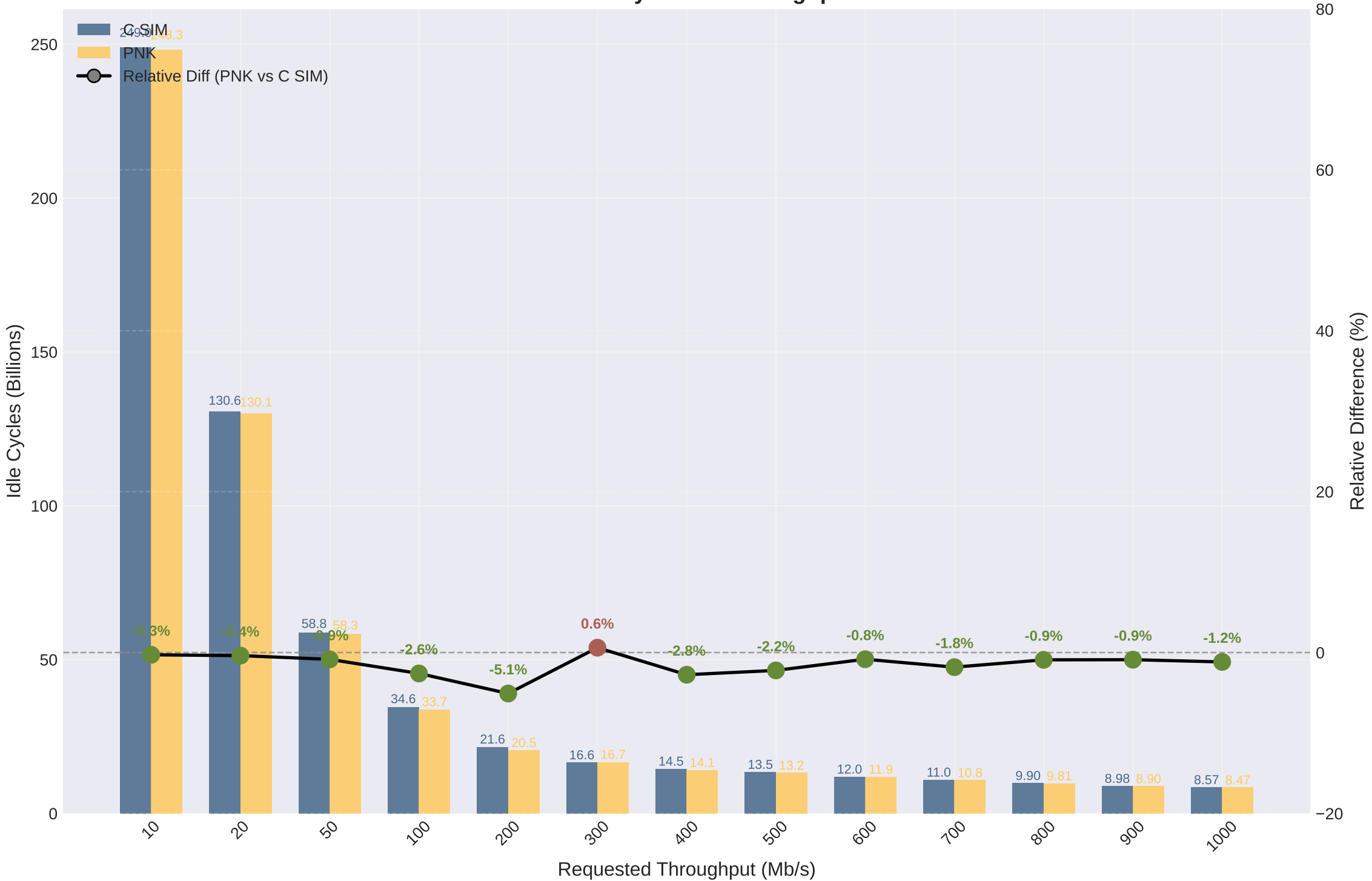
80  
60  
40  
20  
0  
-20

10 20 50 100 200 300 400 500 600 700 800 900 1000

Requested Throughput (Mb/s)

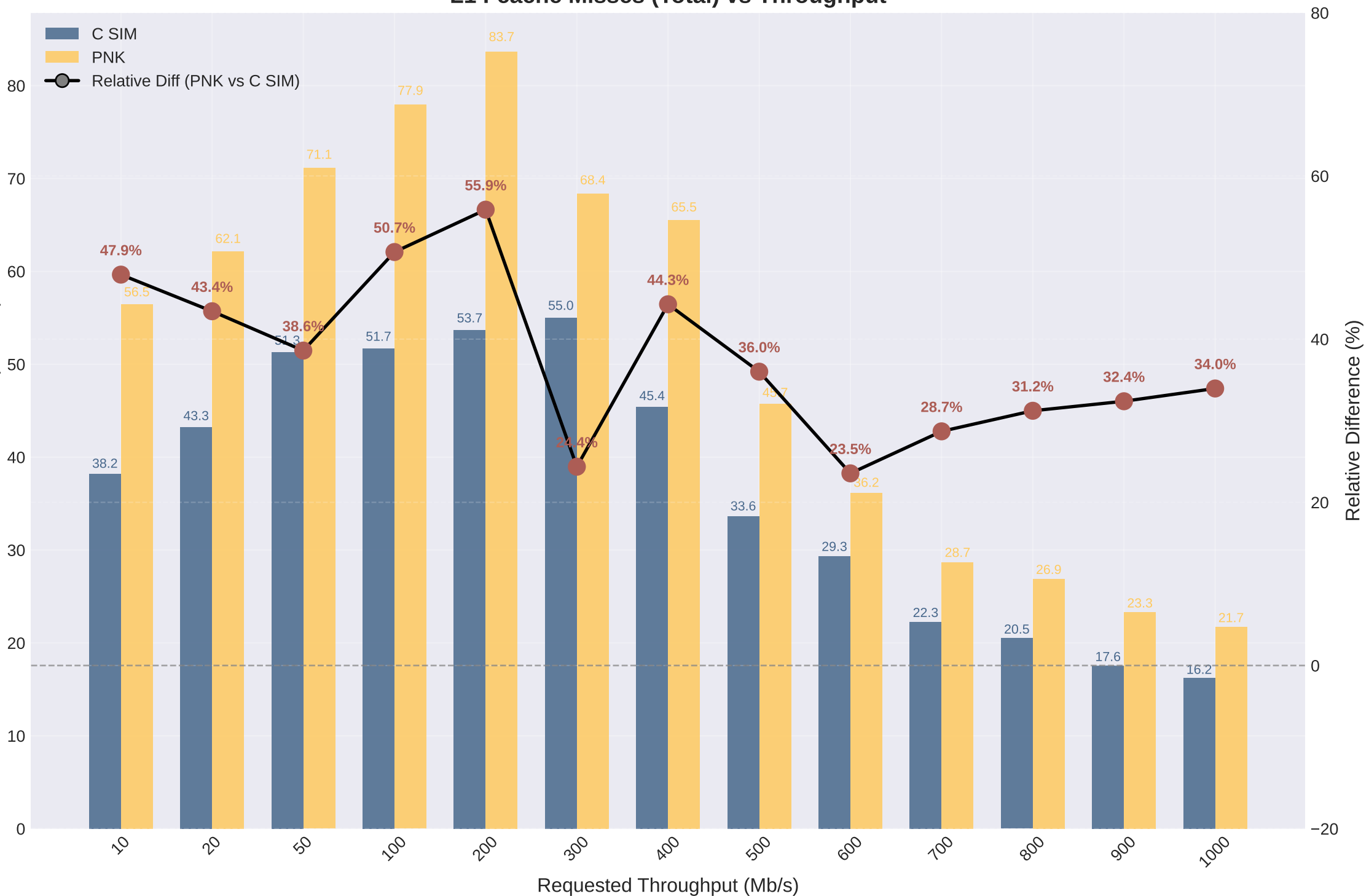


# Idle CPU Cycles vs Throughput

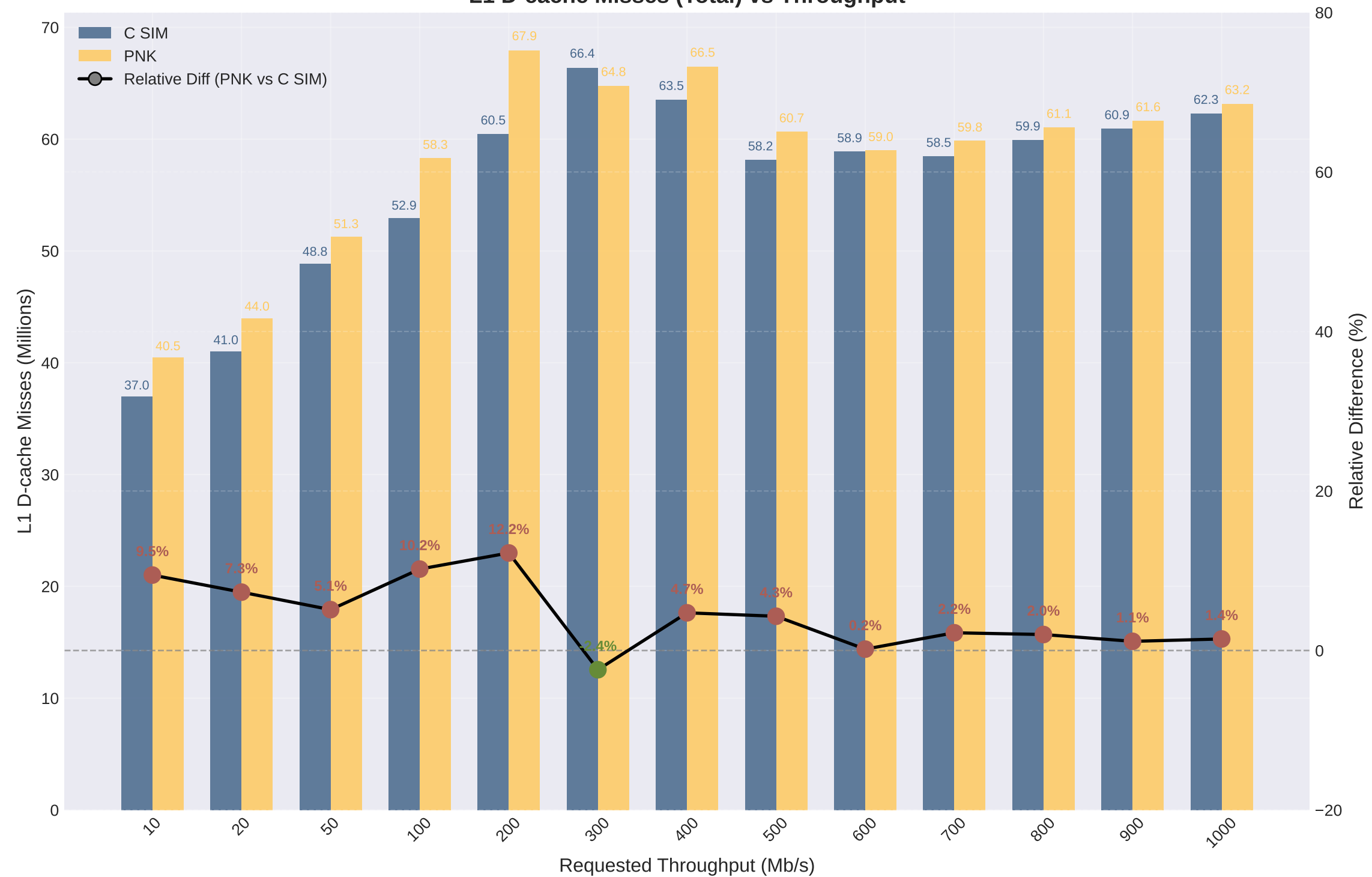


# L1 I-cache Misses (Total) vs Throughput

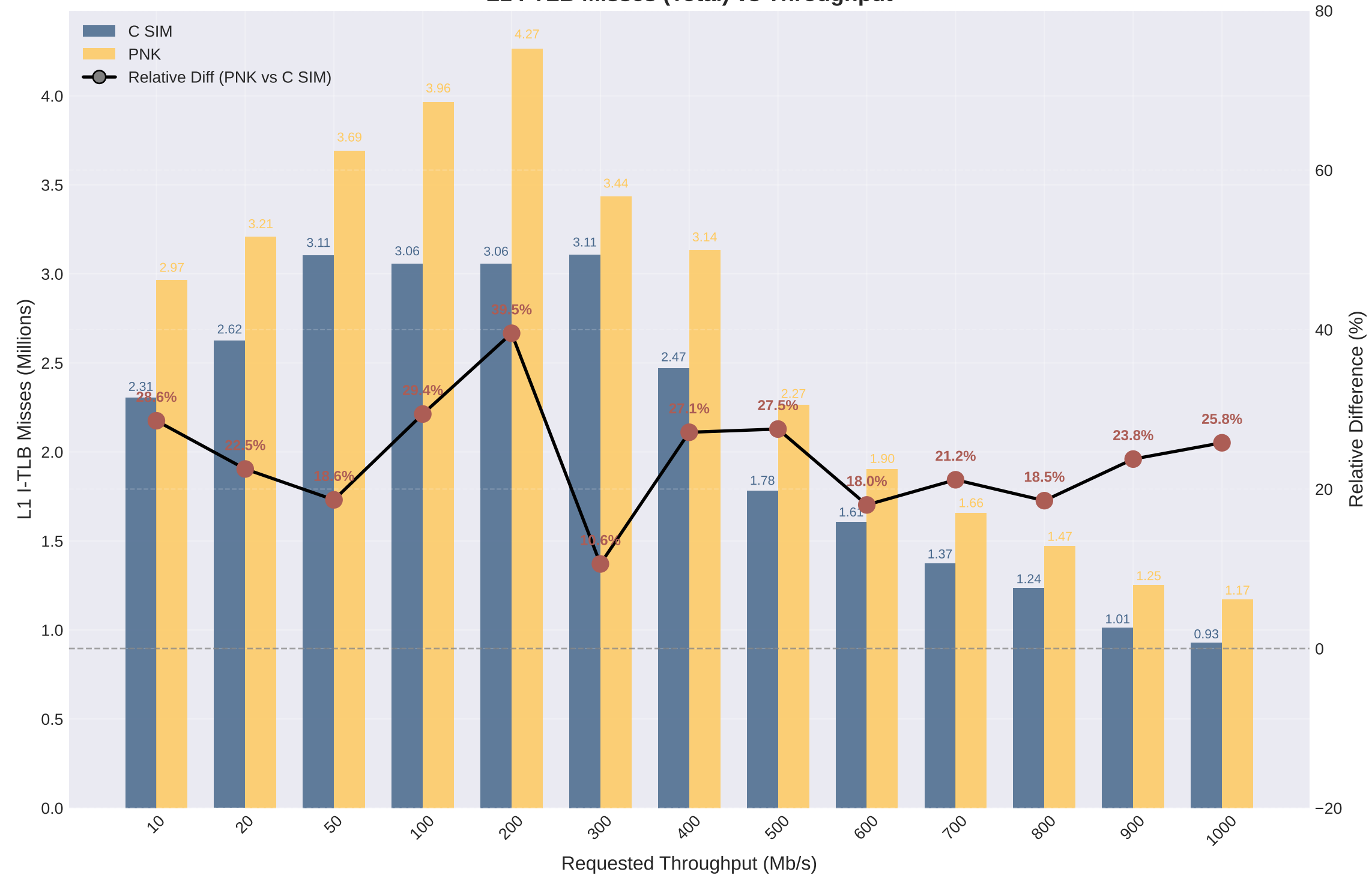
L1 I-cache Misses (Millions)



# L1 D-cache Misses (Total) vs Throughput

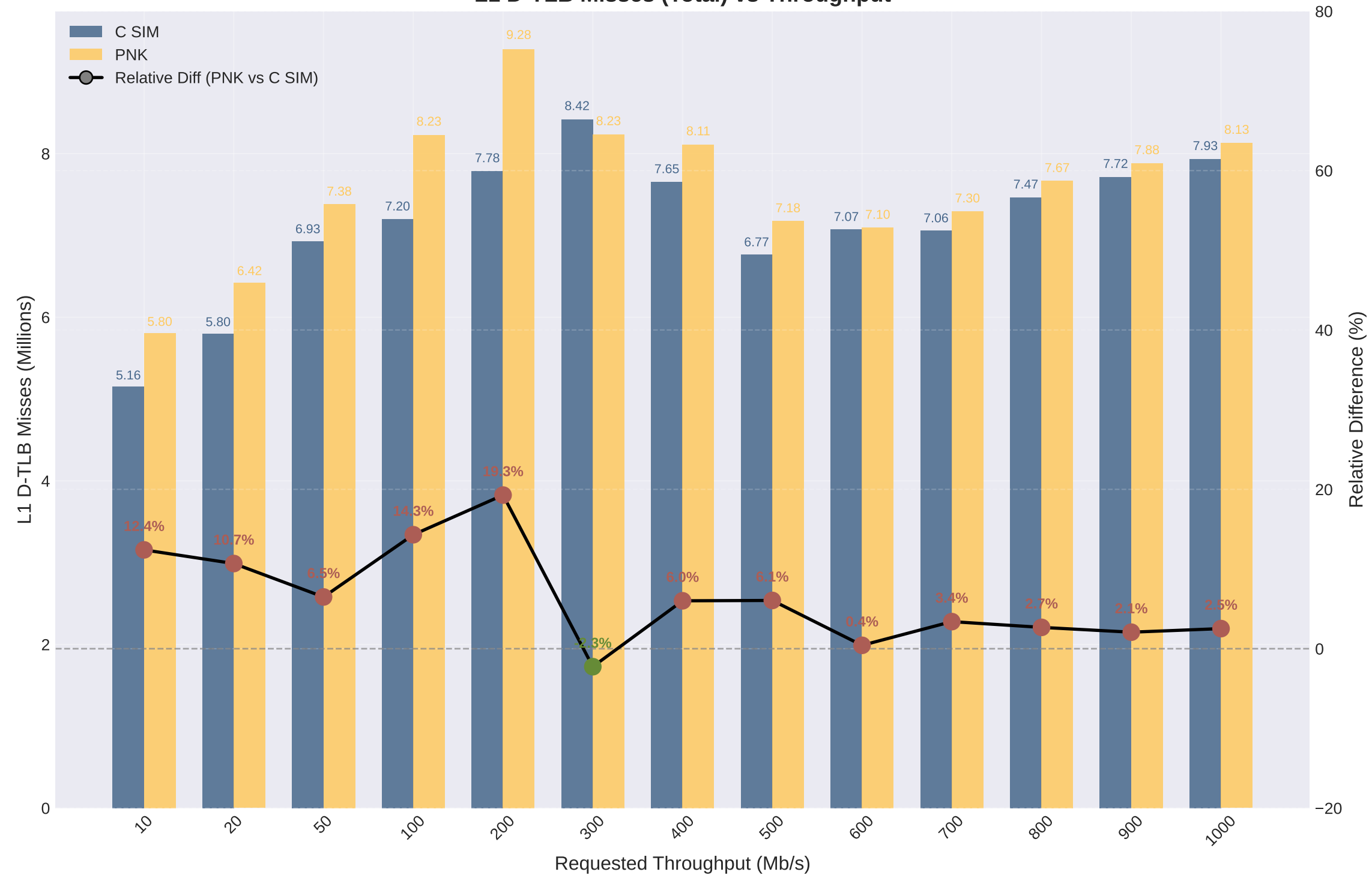


# L1 I-TLB Misses (Total) vs Throughput

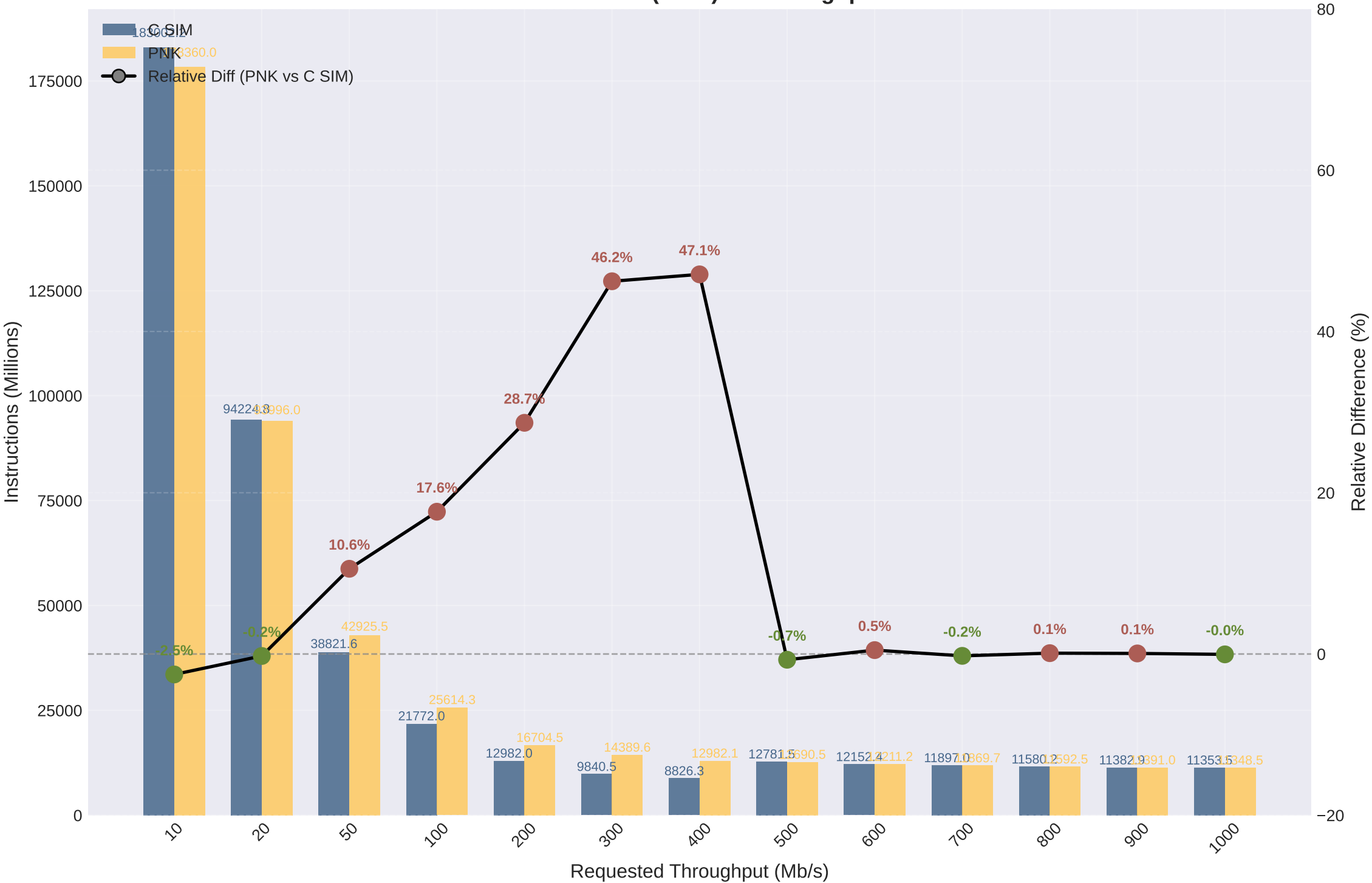




# L1 D-TLB Misses (Total) vs Throughput



# Instructions (Total) vs Throughput

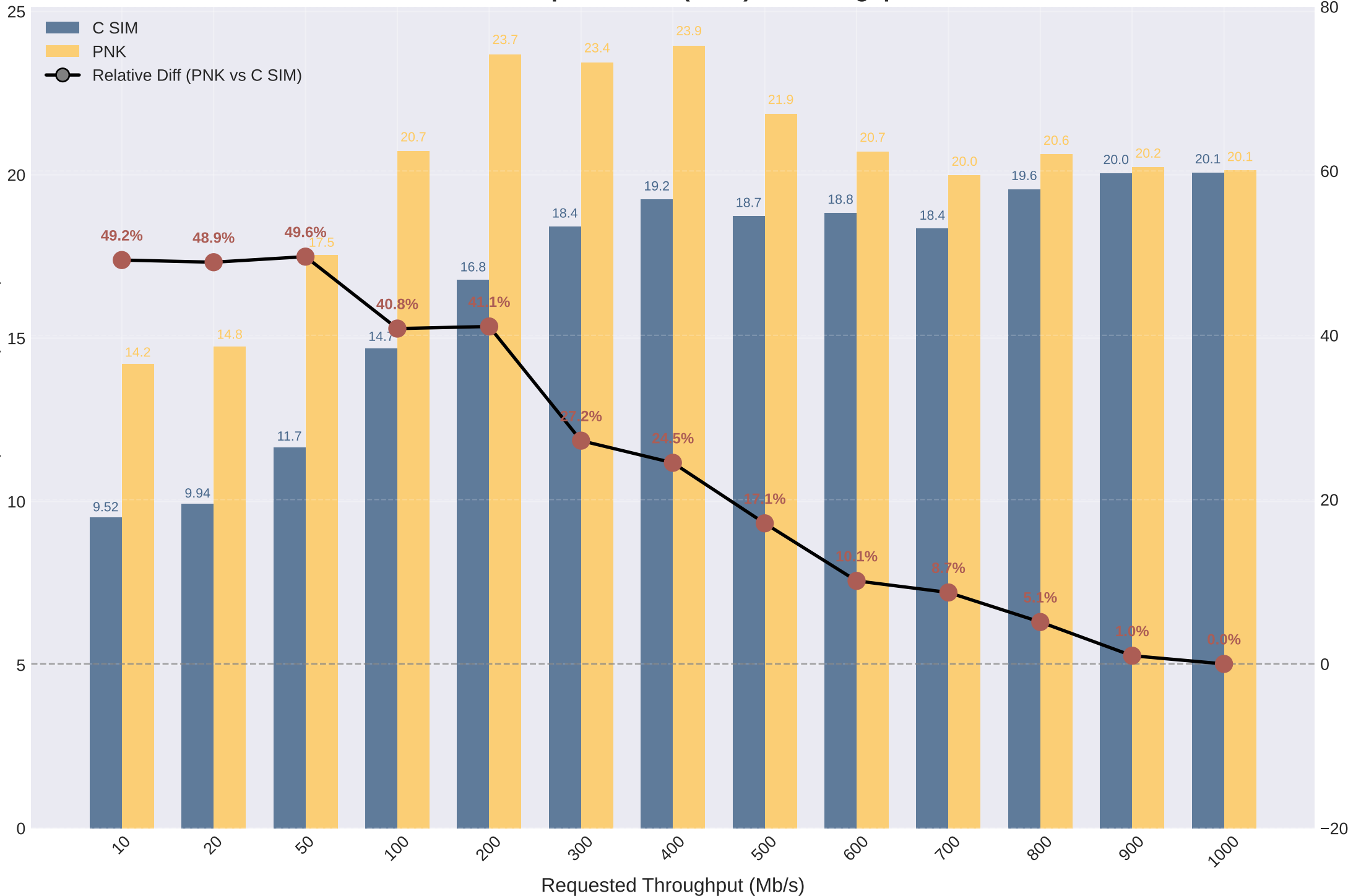


# Branch Mispredictions (Total) vs Throughput

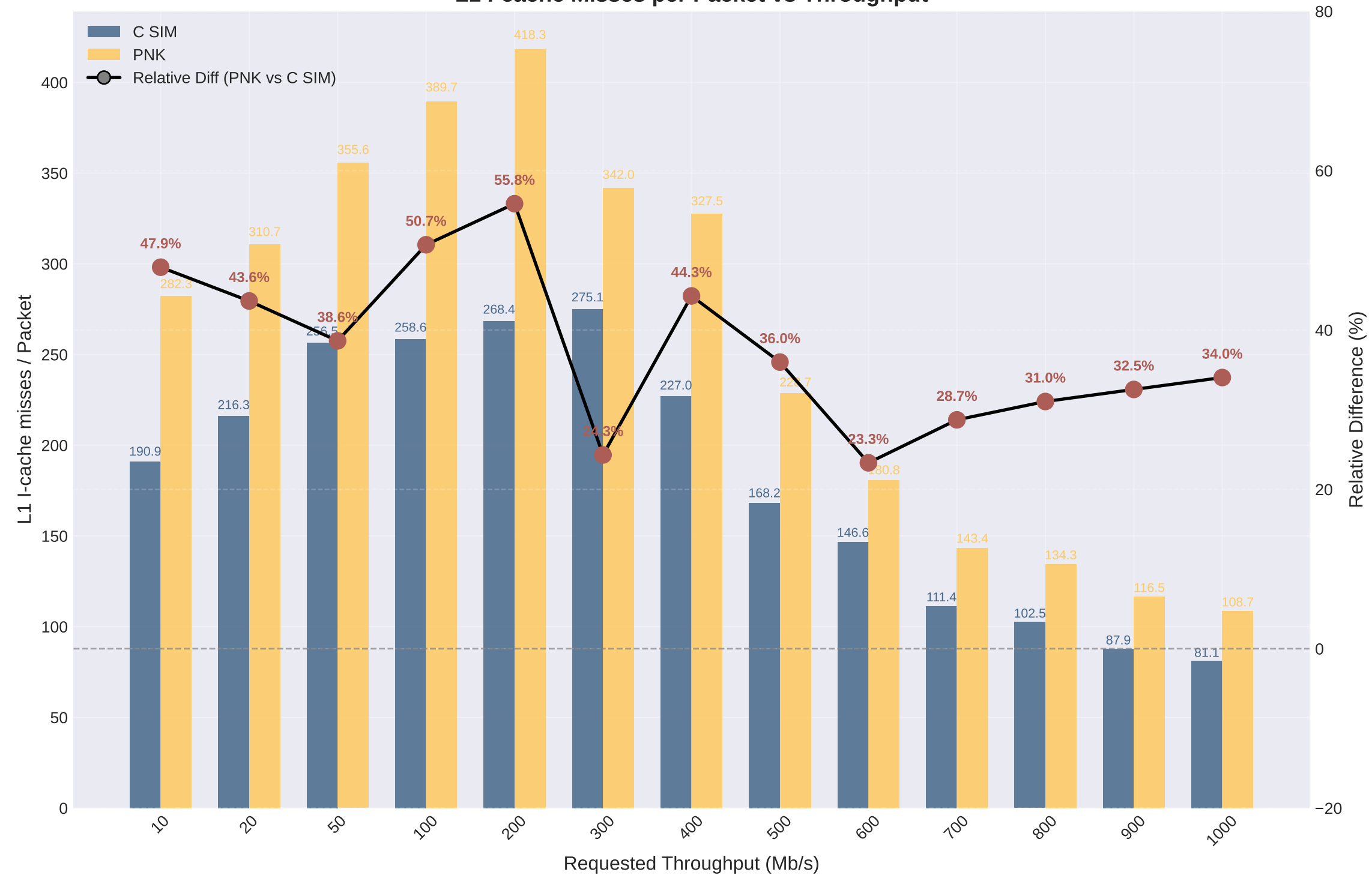
Branch Mispredictions (Millions)

Relative Difference (%)

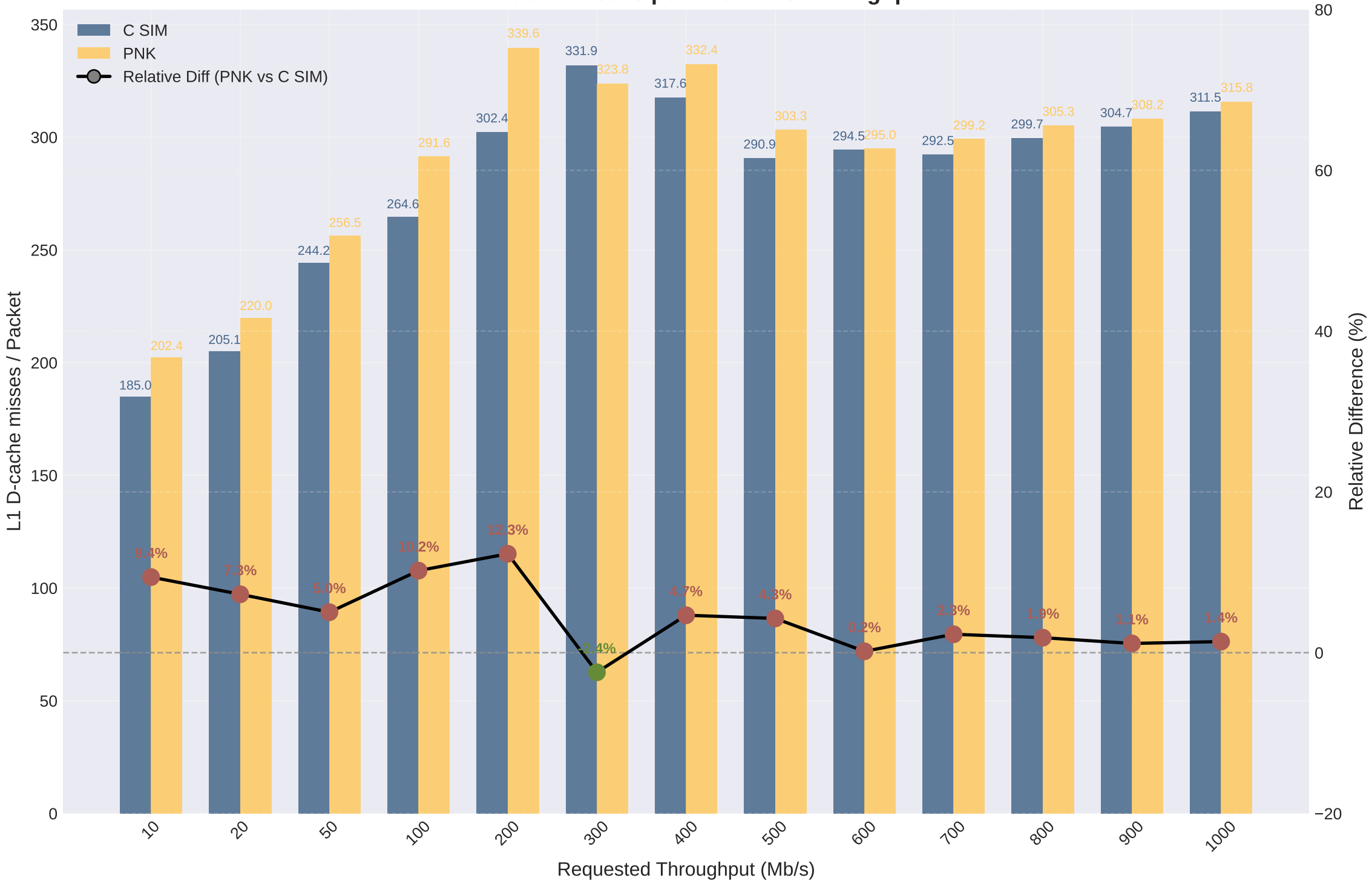
- C SIM
- PNK
- Relative Diff (PNK vs C SIM)



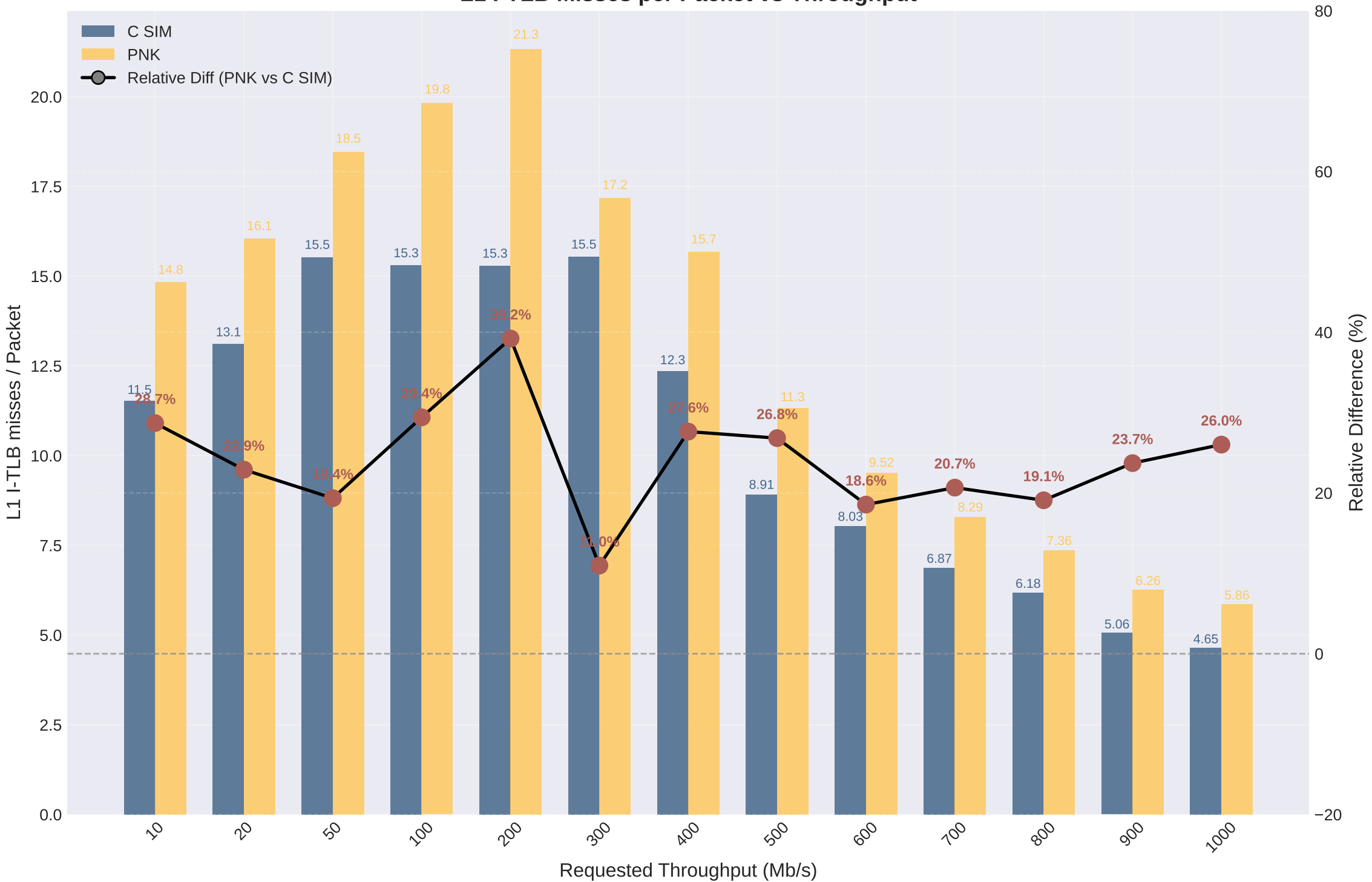
# L1 I-cache Misses per Packet vs Throughput



# L1 D-cache Misses per Packet vs Throughput



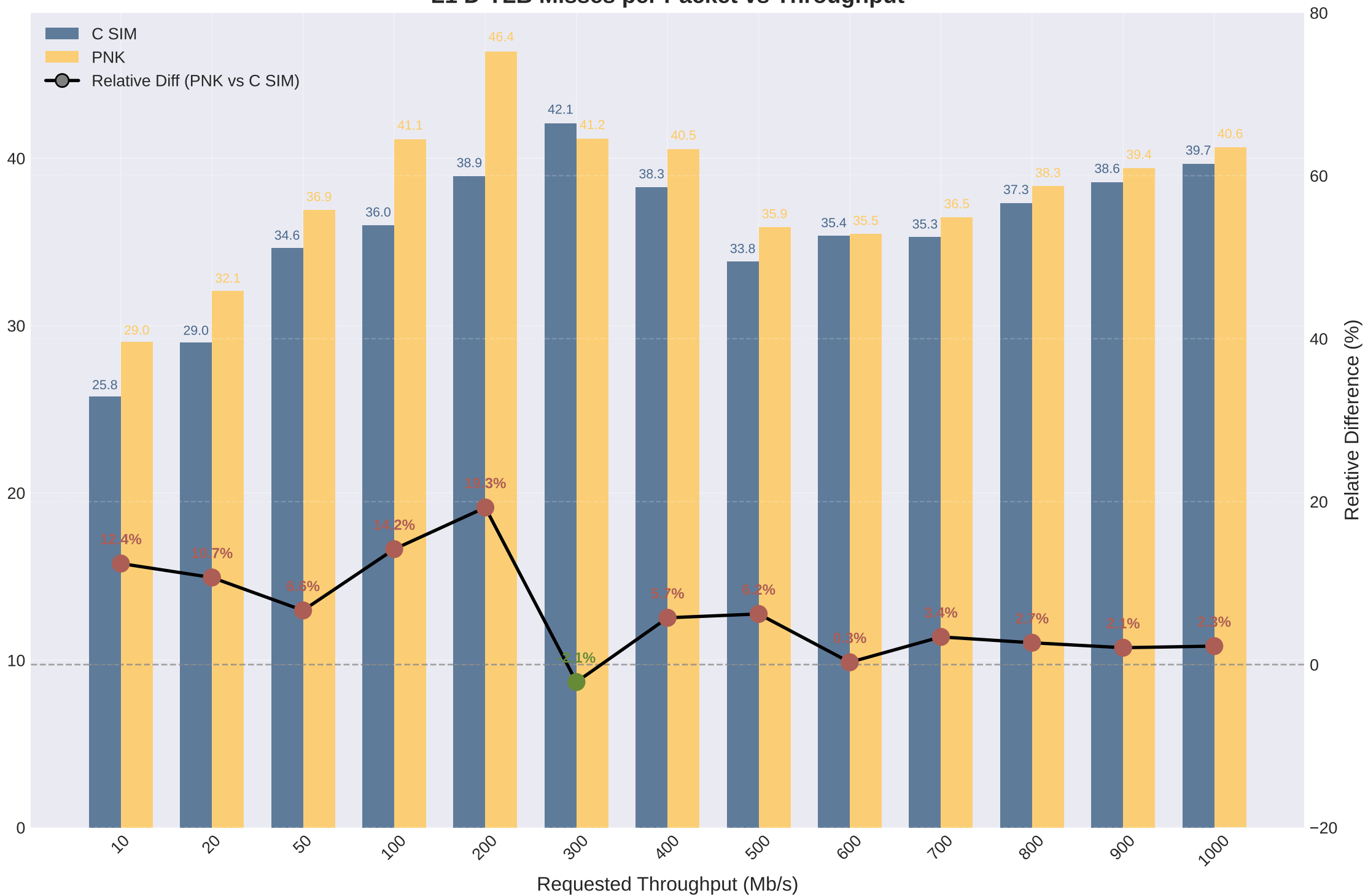
# L1 I-TLB Misses per Packet vs Throughput



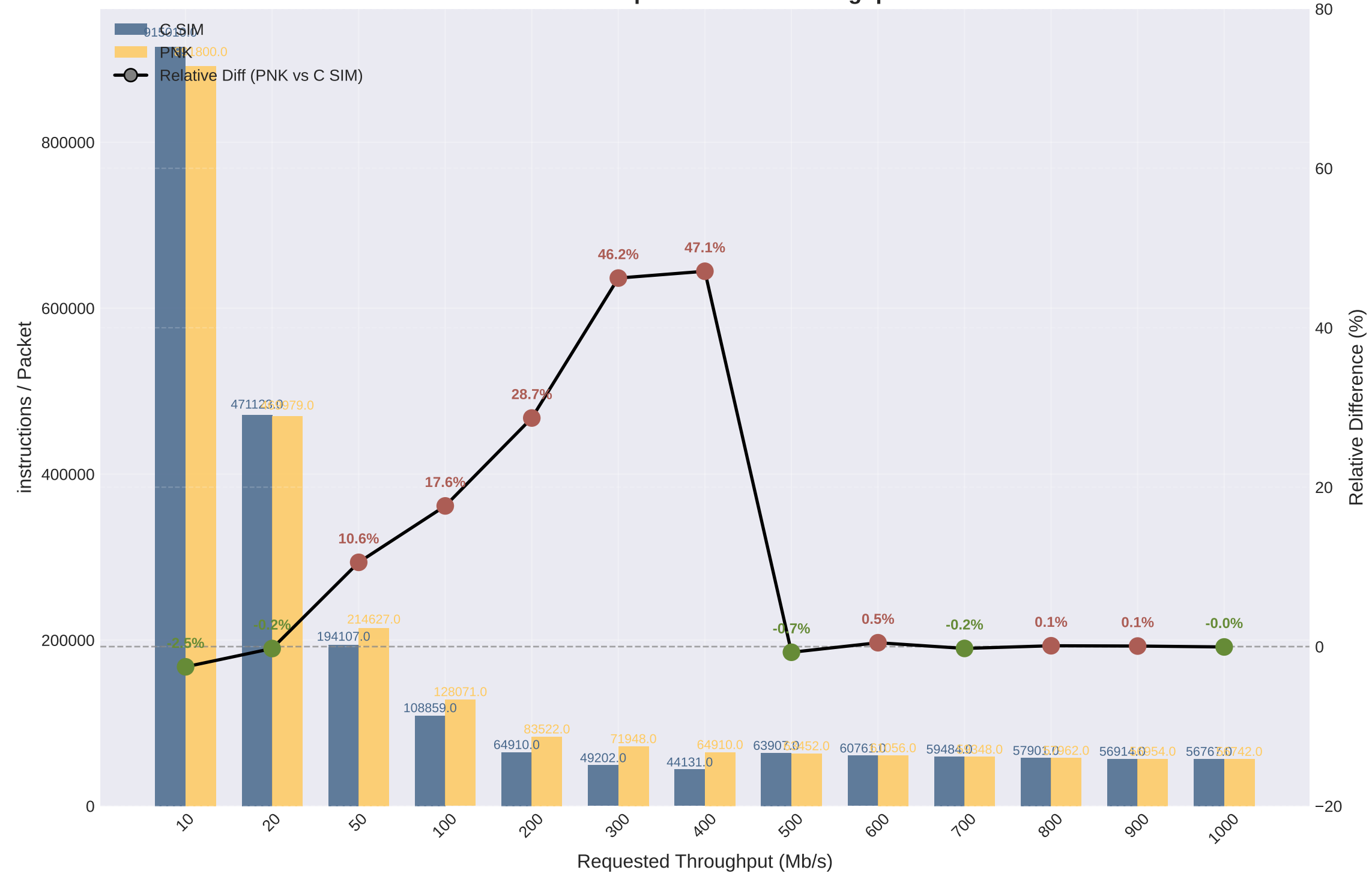
# L1 D-TLB Misses per Packet vs Throughput

L1 D-TLB misses / Packet

- C SIM
- PNK
- Relative Diff (PNK vs C SIM)

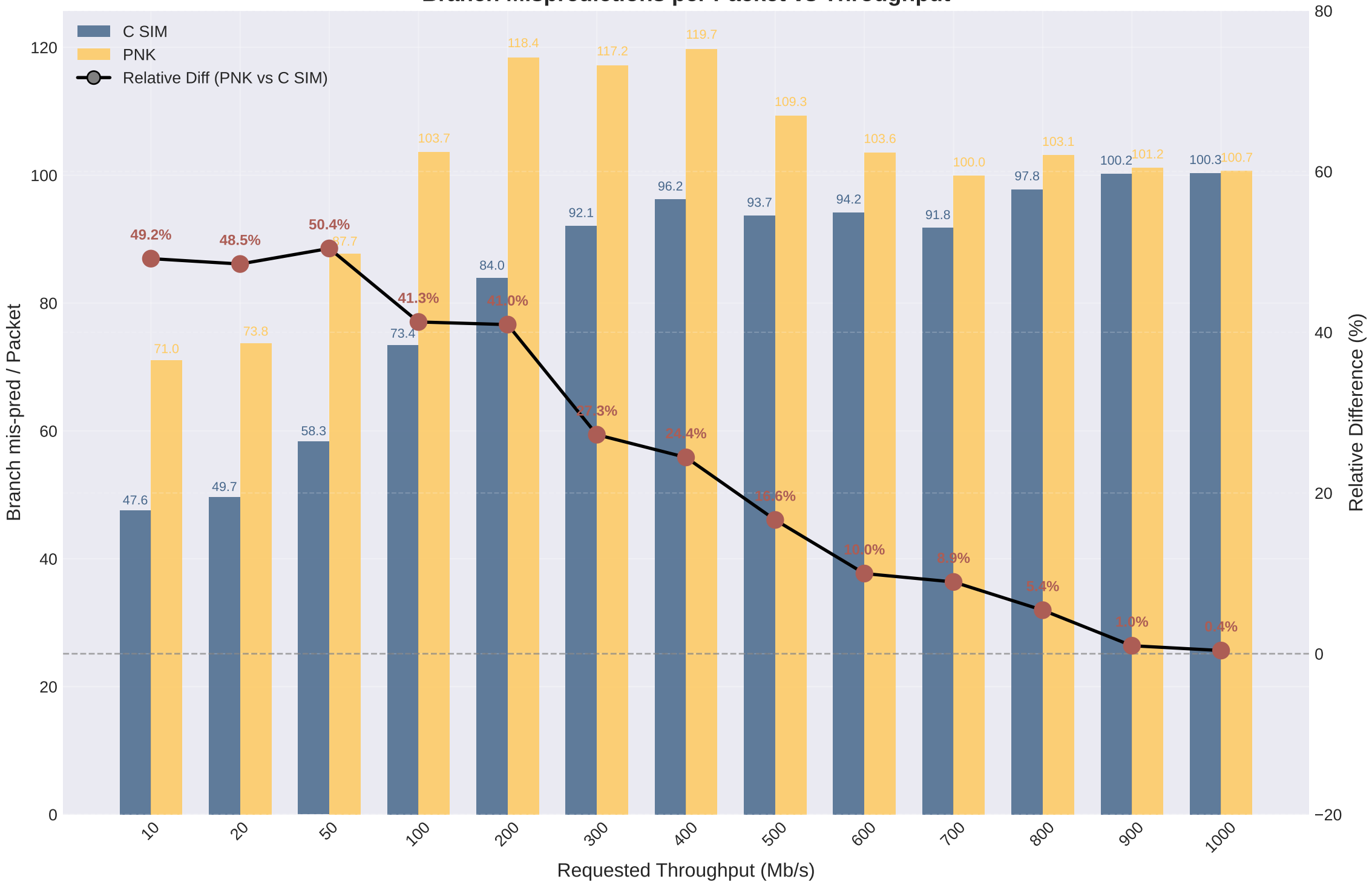


# Instructions per Packet vs Throughput

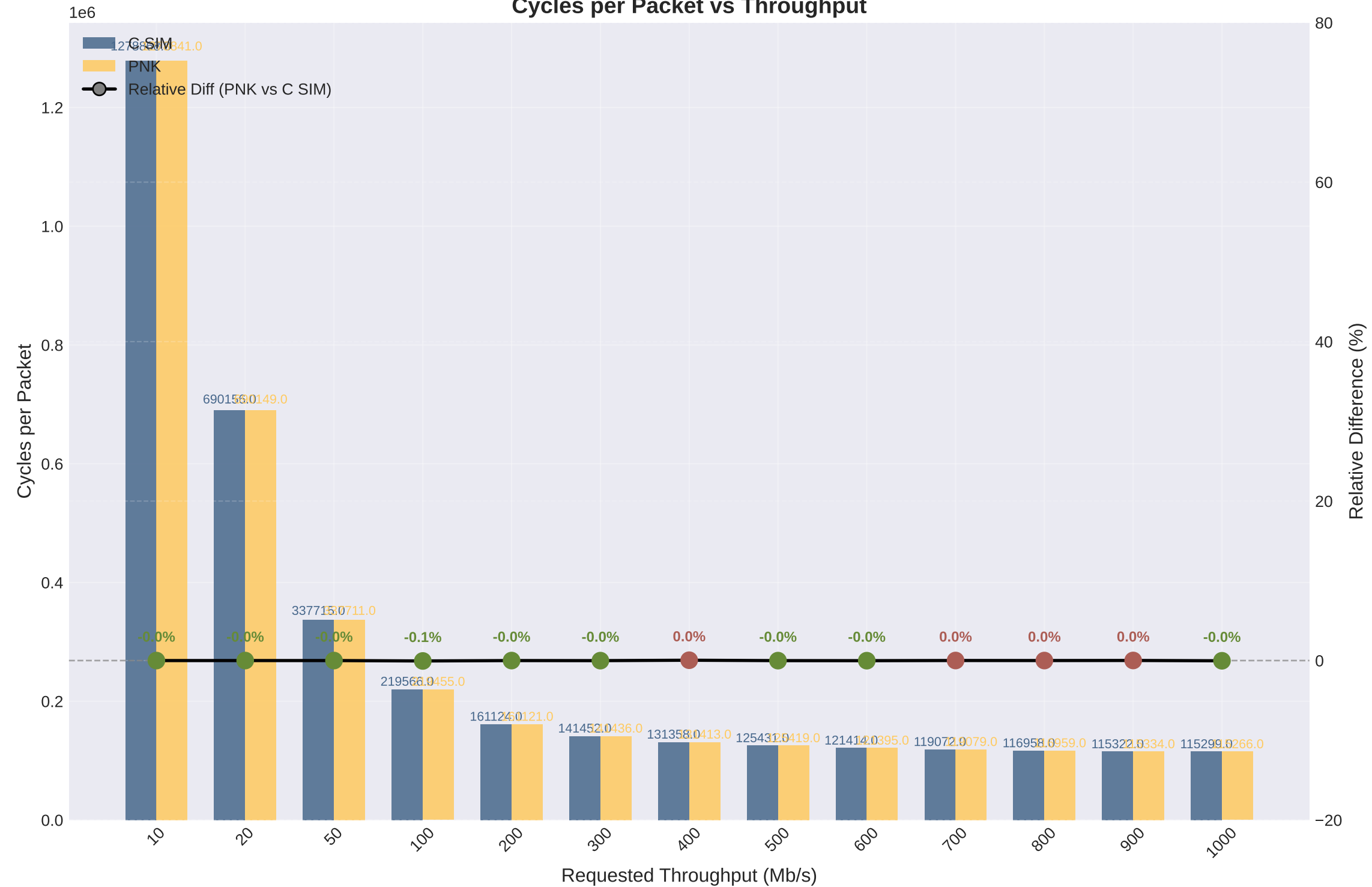




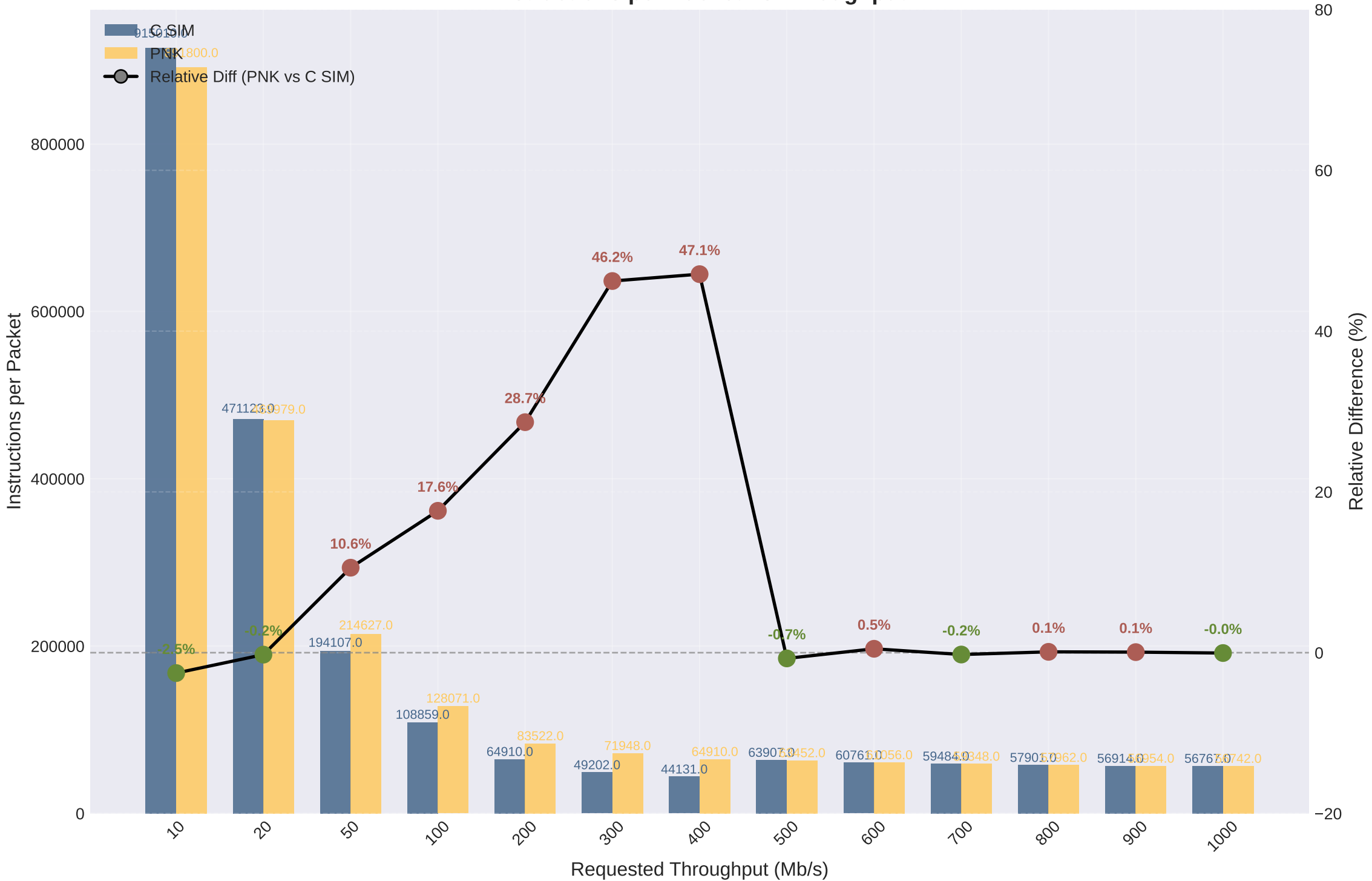
# Branch Mispredictions per Packet vs Throughput



# Cycles per Packet vs Throughput

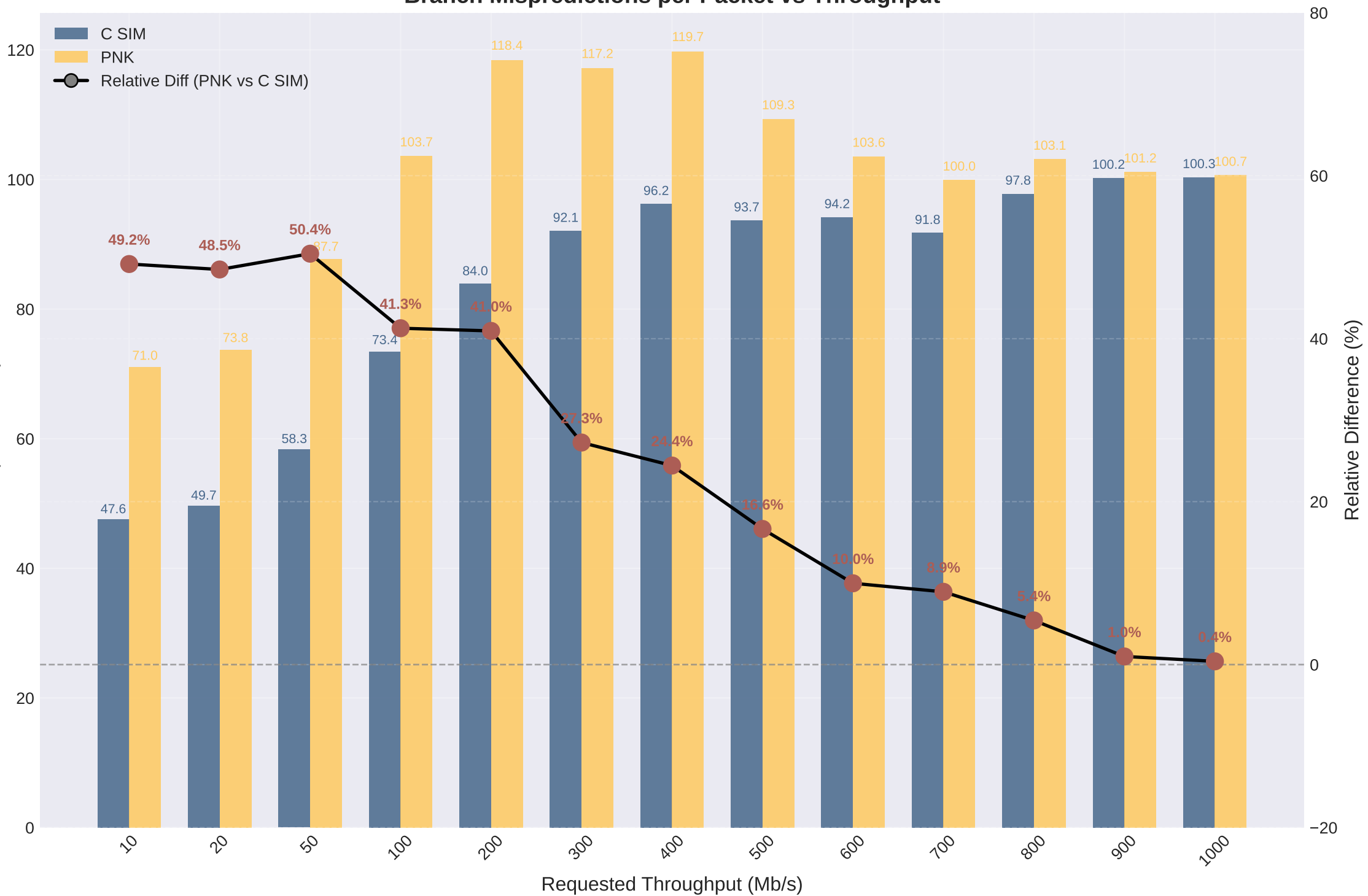


# Instructions per Packet vs Throughput



# Branch Mispredictions per Packet vs Throughput

Branch Mispredictions per Packet

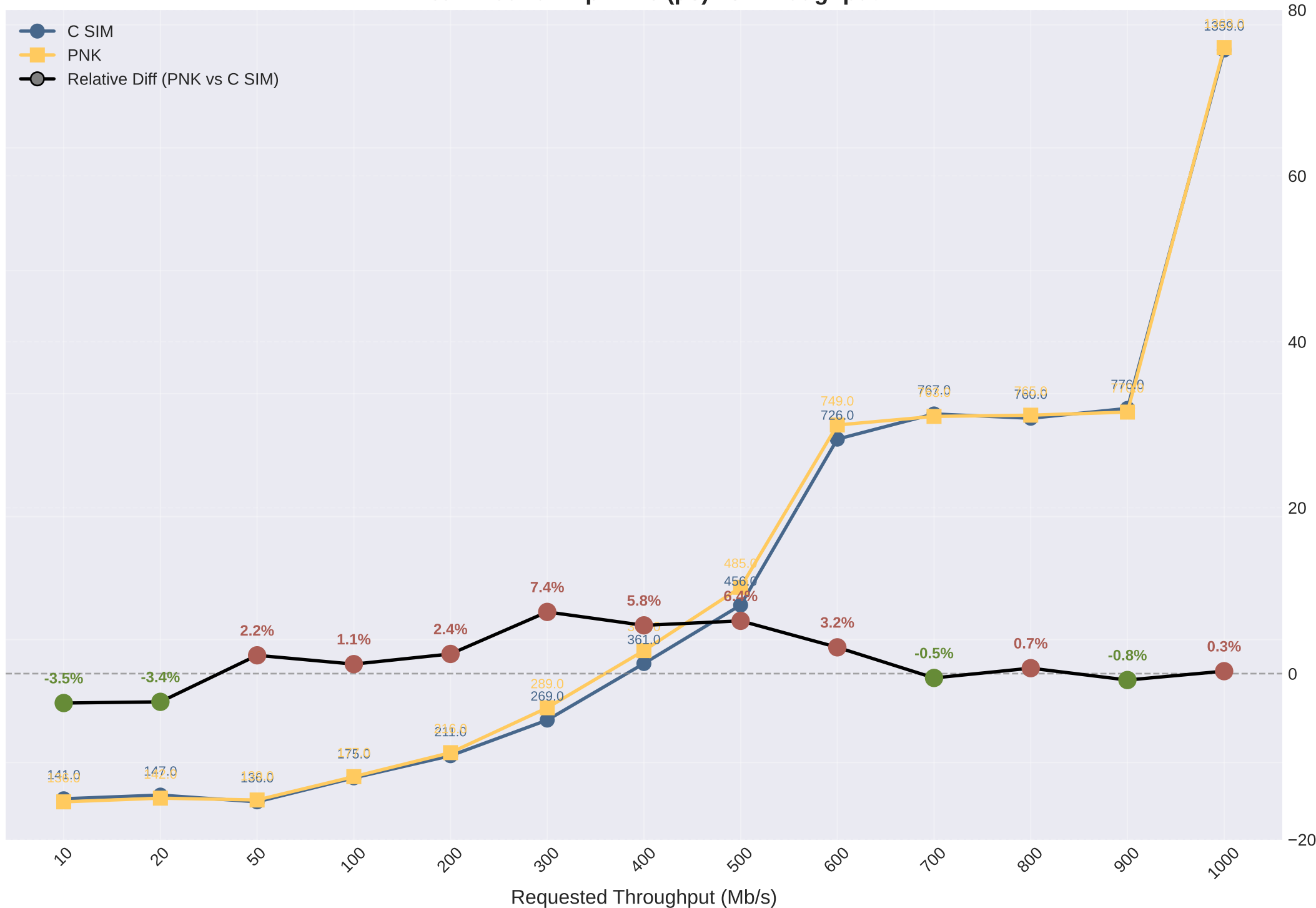


# Mean Round-Trip Time ( $\mu$ s) vs Throughput

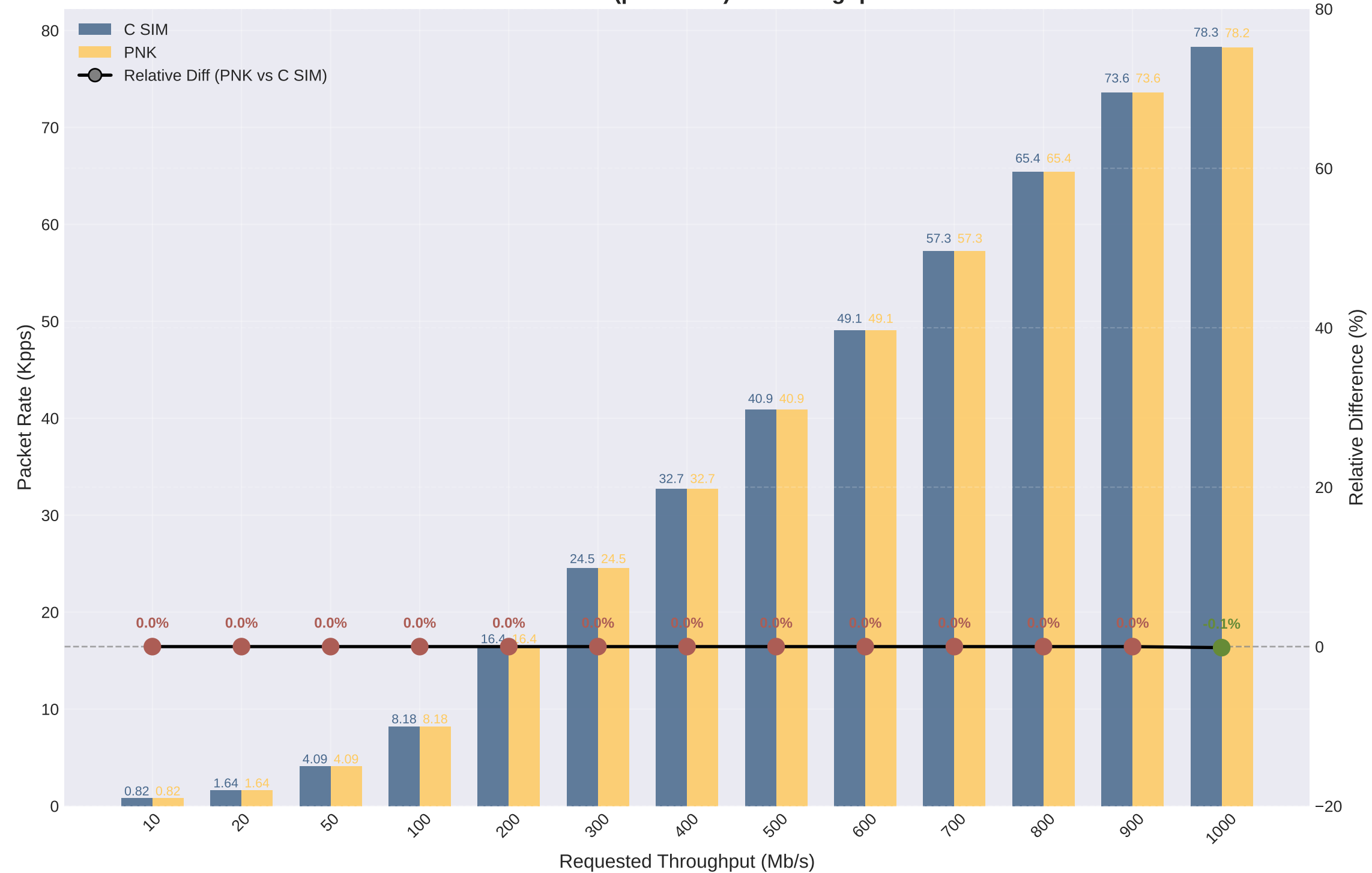
Mean Round-Trip Time ( $\mu$ s)

Relative Difference (%)

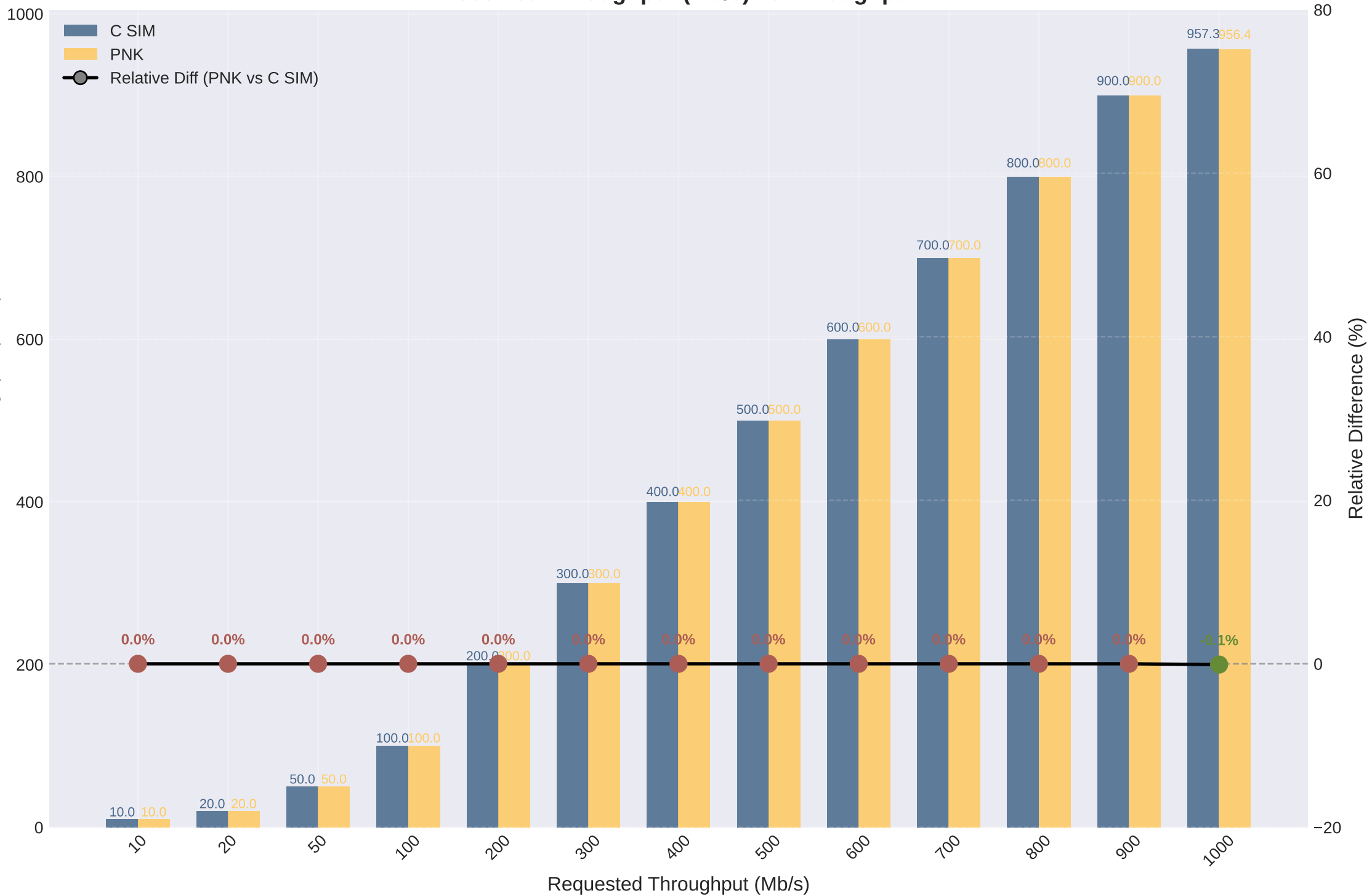
- C SIM
- PNK
- Relative Diff (PNK vs C SIM)



Packet Rate (packets/s) vs Throughput



Received Throughput (Mb/s) vs Throughput



Sent Throughput (Mb/s) vs Throughput

