ΕΠΛ 499 Εργασια 1 Ιεραρχια μνημης Νικολαος Θεοδωρου 1030496

Μηχανη: c220g1

Τοποθεσια: Wisconsin

CPU: Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz

Sockets: 2

Memory: 131752244 kB -> 131.75 gigabytes

Local Memory Metrics:

Local Memory Latency:

- Local Socket Memory = 88.8 ns
- Remote Socket Memory = 130.2 ns

Local Memory Bandwidth:

- Local Socket Bandwidth = 49071.8 MB/s
- Remote Socket Bandwidth = 25363.8 MB/s

Local Disk Metrics:

- Average Local Disk Latency = 188 μs
- Read Bandwidth = 200 MB/s
- Model = INTEL SSDSC2BB480G4 CVWL4442018M480QGN
- Capacity = **480 GB**
- Transport = SATA

Remote Memory and Disk:

- Ping latency node1 from node0 = 109 μs
- Network Bandwidth = 5.50 Gbps = 687.5 MB/s
- No network bottleneck for disk bandwidth, since the SSD read speed is 200MB/s and the network bandwidth is larger (687.5 MB/s > 200 MB/s). Therefore, the remote Disk bandwidth is 200MB/s
- No network bottleneck for disk latency, since the SSD latency is 188 μ s and the network latency is 109 μ s. Therefore, the **remote Disk latency is 188** μ s
- Network bottleneck for Memory bandwidth, since the Ram bandwidth is larger than the network bandwidth. Therefore, the **remote memory bandwidth is 687.5 MB/s**
- Network bottleneck for Memory latency, since the memory latency is smaller than network latency. Therefore, the **remote memory latency is 109 \mus**

