

Figure 1: Simultaneous multithreading with Hyper-Threading Technology.

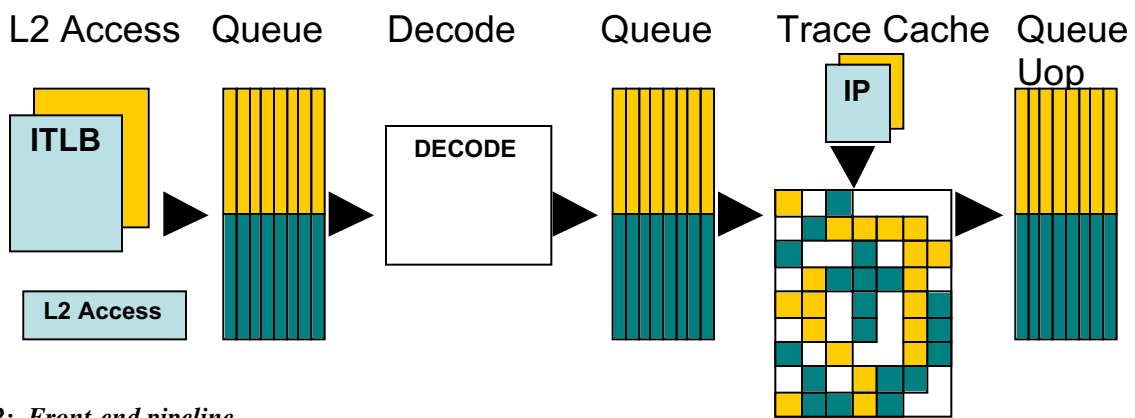


Figure 2: Front-end pipeline.

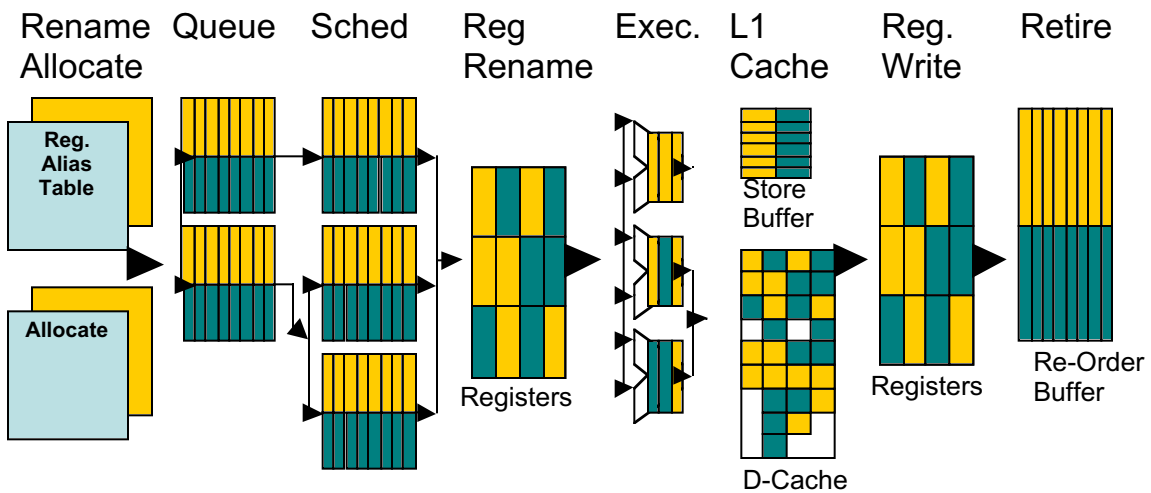


Figure 3: Out-of-order execution engine.

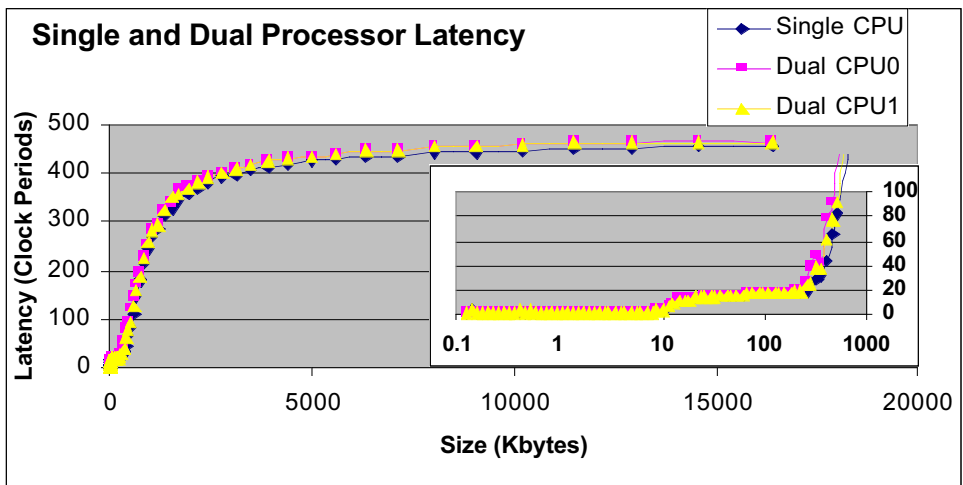


Figure 4: Single- and dual-processor latencies.

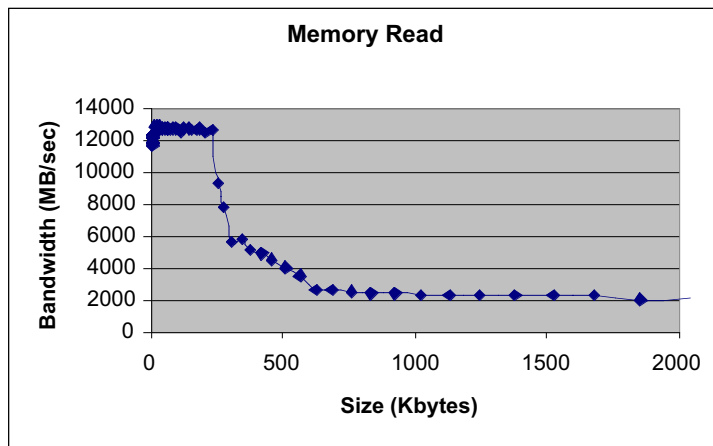


Figure 5: Single- and dual-processor bandwidths (memory read).

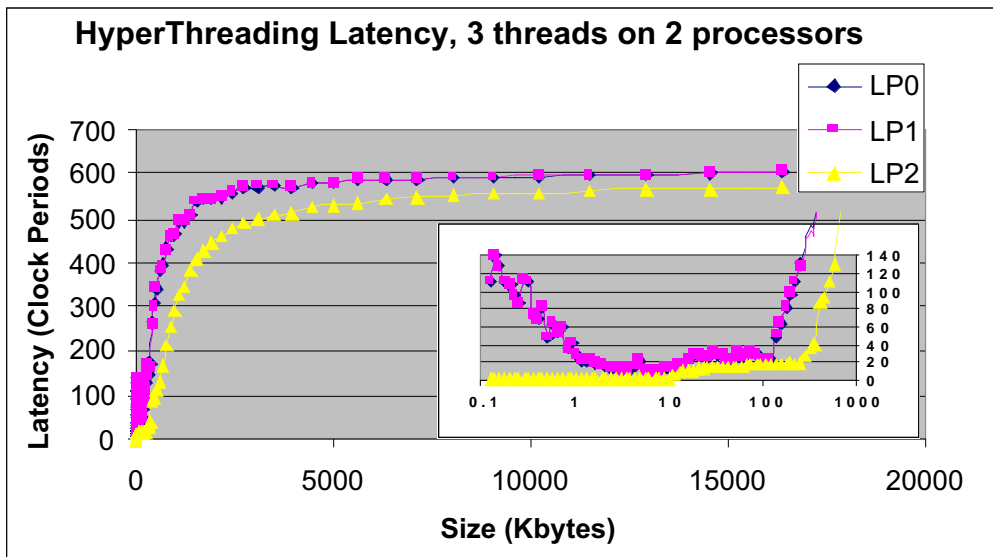


Figure 6: Hyperthreading latencies for 3 threads on 2 processors.

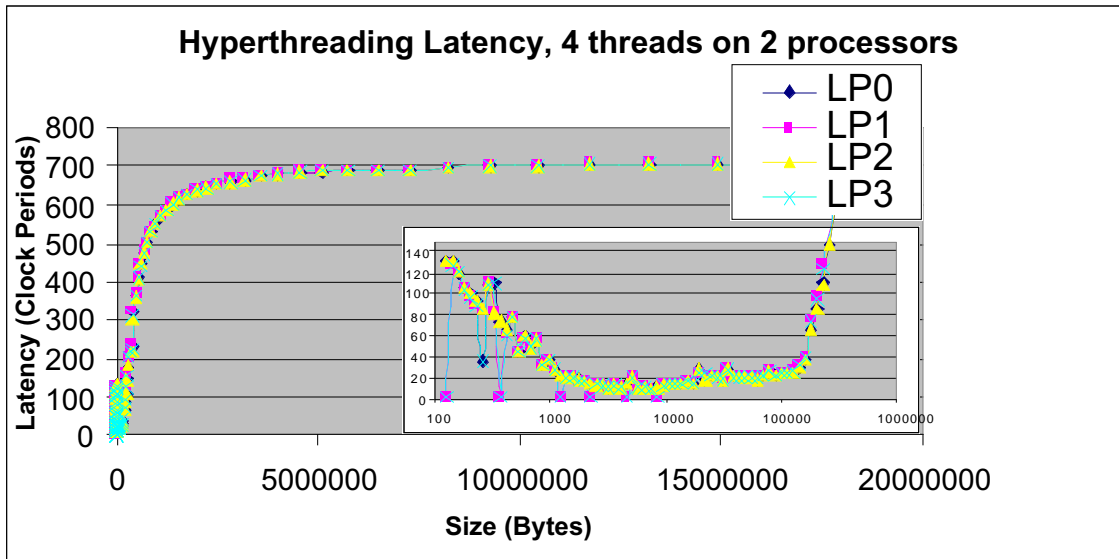


Figure 7: Hyperthreading latencies for 4 threads on 2 processors.

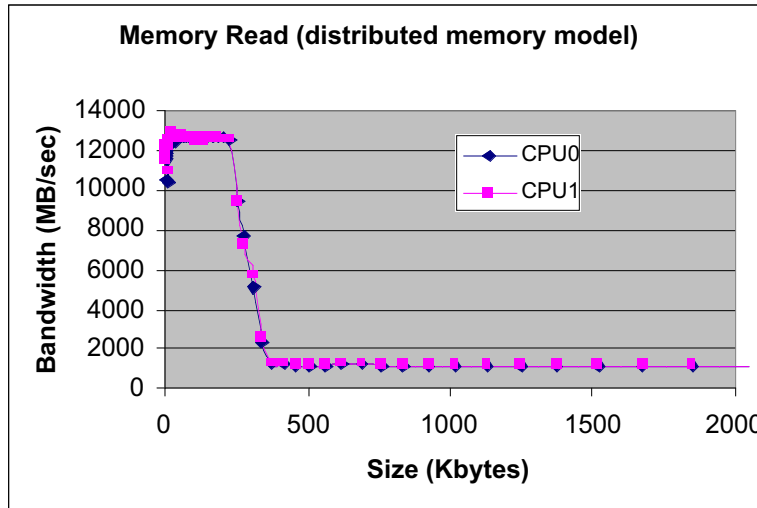


Figure 8: Memory bandwidth for 2 threads on 2 processors

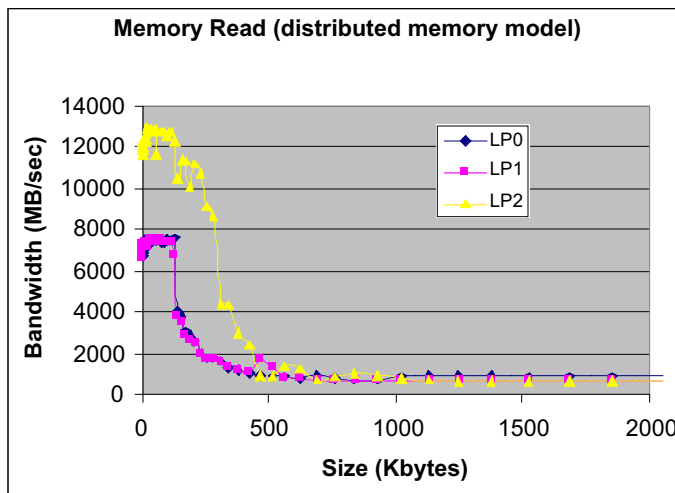


Figure 9: Hyperthreading bandwidth for 3 threads on 2 processors.

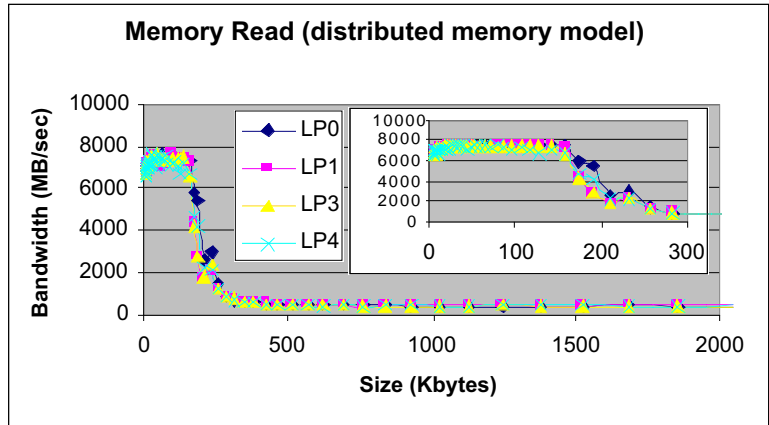


Figure 10: Hyperthreading bandwidth for 4 threads on 2 processors.

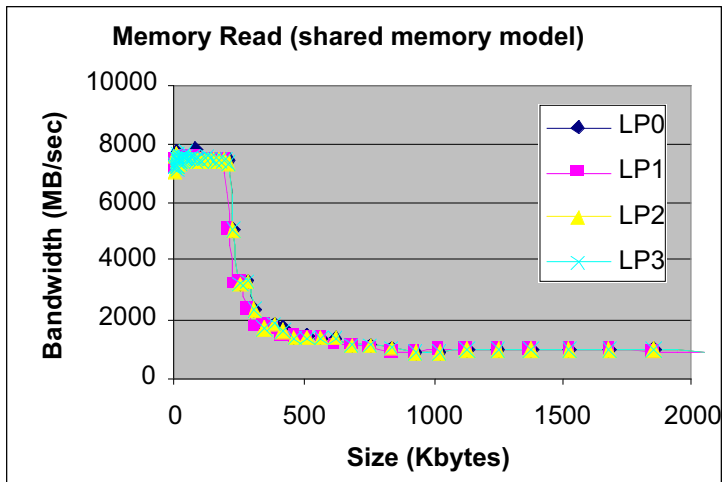


Figure 11: Hyperthreading bandwidth for shared data.