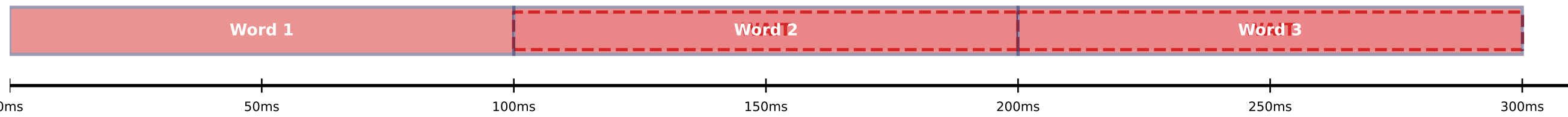


Processing Timeline: RNN (Sequential) vs Transformer (Parallel)

RNN: Sequential Bottleneck

GPU Utilization: 1-5% (95% idle!)

Total Time: 300ms



Transformer: Full Parallelization

- Word 1 (parallel)
- Word 2 (parallel)
- Word 3 (parallel)
- ... (parallel)
- Word 10 (parallel)

ALL AT ONCE

Total Time: 10ms
30x faster!

GPU Utilization: 85-92% (full power!)

Using all 5,120 GPU cores simultaneously

