# DDR2 Thermal Sensor (TS) on So-DIMM
## Improves Memory Utilization

**Memory Bandwidth vs. DRAM Temperature**
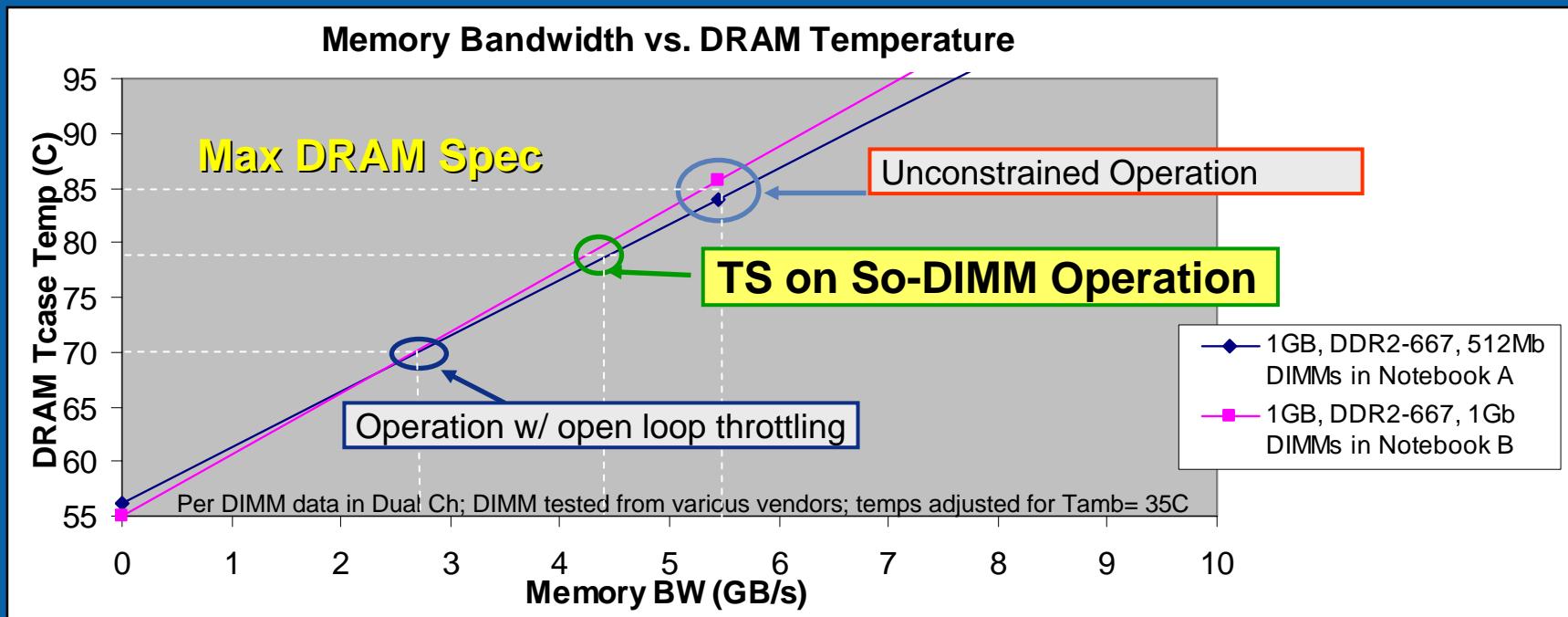


- Typical SO-DIMMs reaching max temperature under realistic workloads
- Open loop, memory throttling results in loss of performance
- TS on DIMM increases performance by allowing operation closer to DRAM spec limit

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