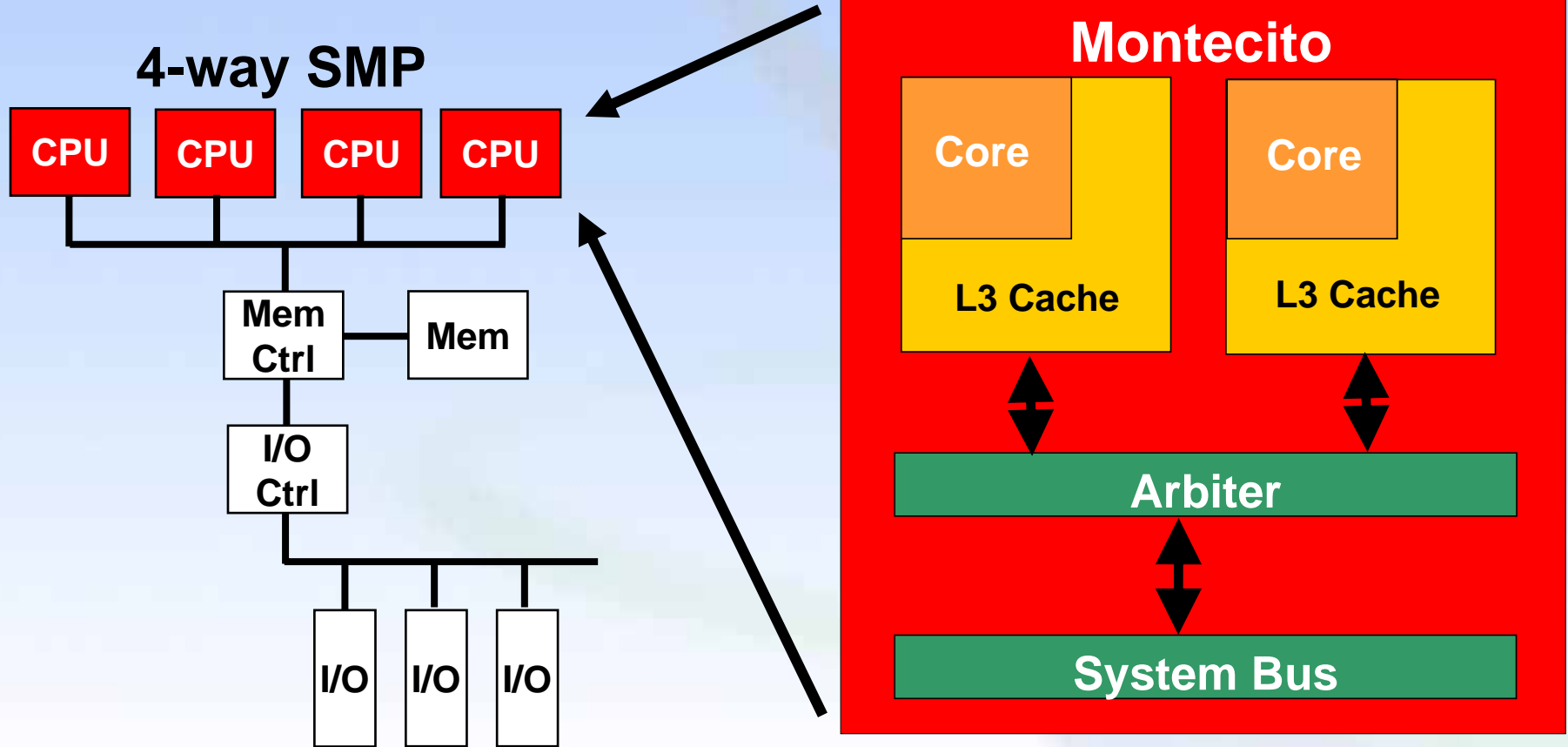


Types of Parallelism: Symmetric Multi-Processing (SMP) and Multi-Core

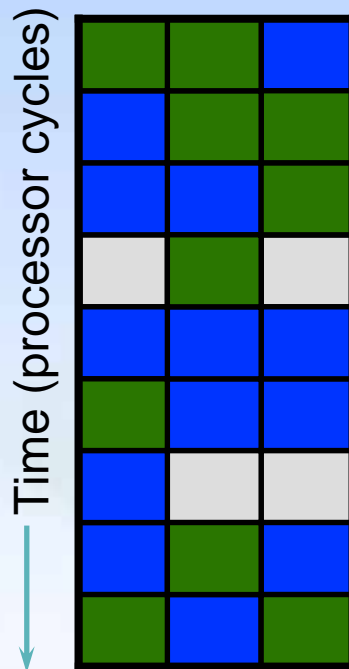


Supported by the Itanium® Processor and
Intel® Xeon™ Processor Families

SMT on Intel® Xeon™ Processor vs. MT on a Montecito Core:

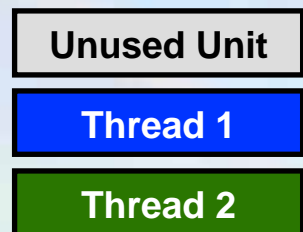
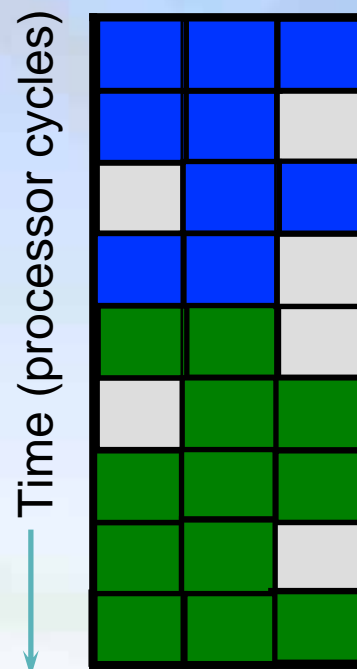
Hyper-Threading Technology (Intel® Xeon™ Processor Family)

- Two threads run at the same time
- Both threads simultaneously share processor resources



Coarse Multi-threading (Itanium® Processor Family)

- One thread runs at a time
- Switches threads on long latency events



Note: Each box represents a processor execution unit

The EPIC Architecture dictates a different Multi-threading implementation when compared the IA-32 ISA