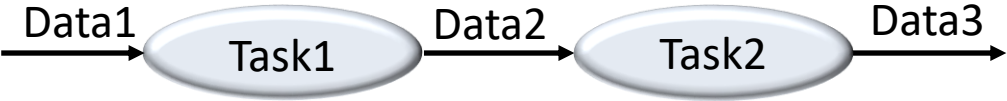


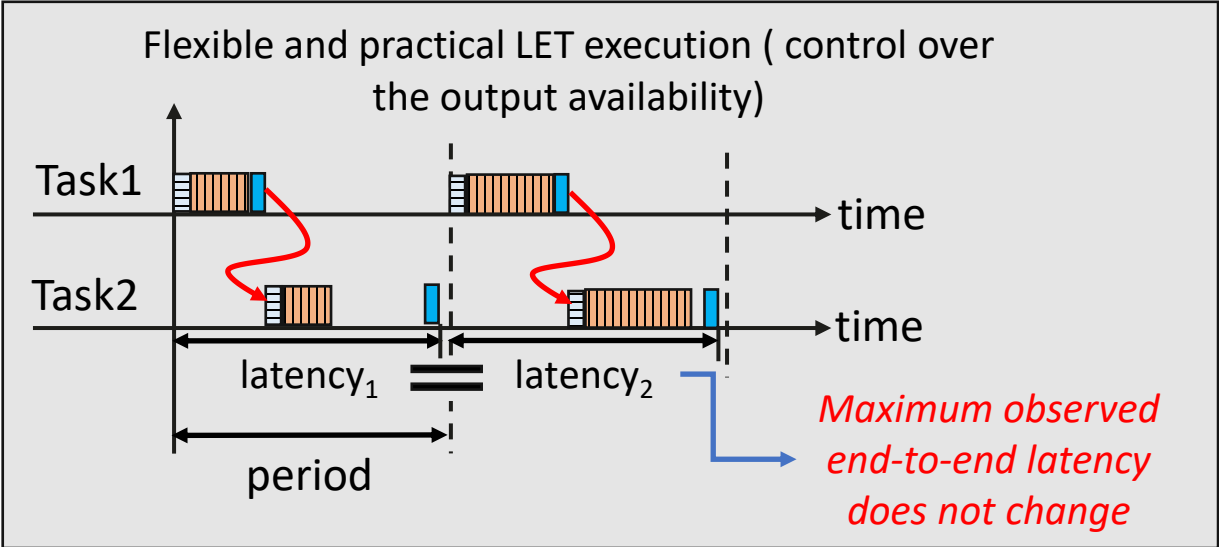
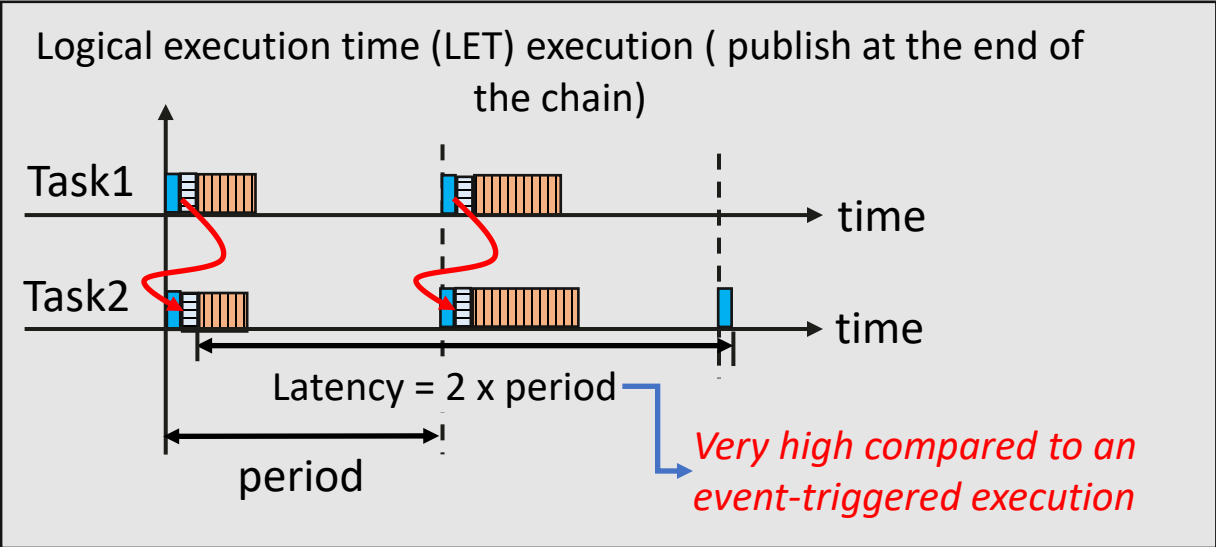
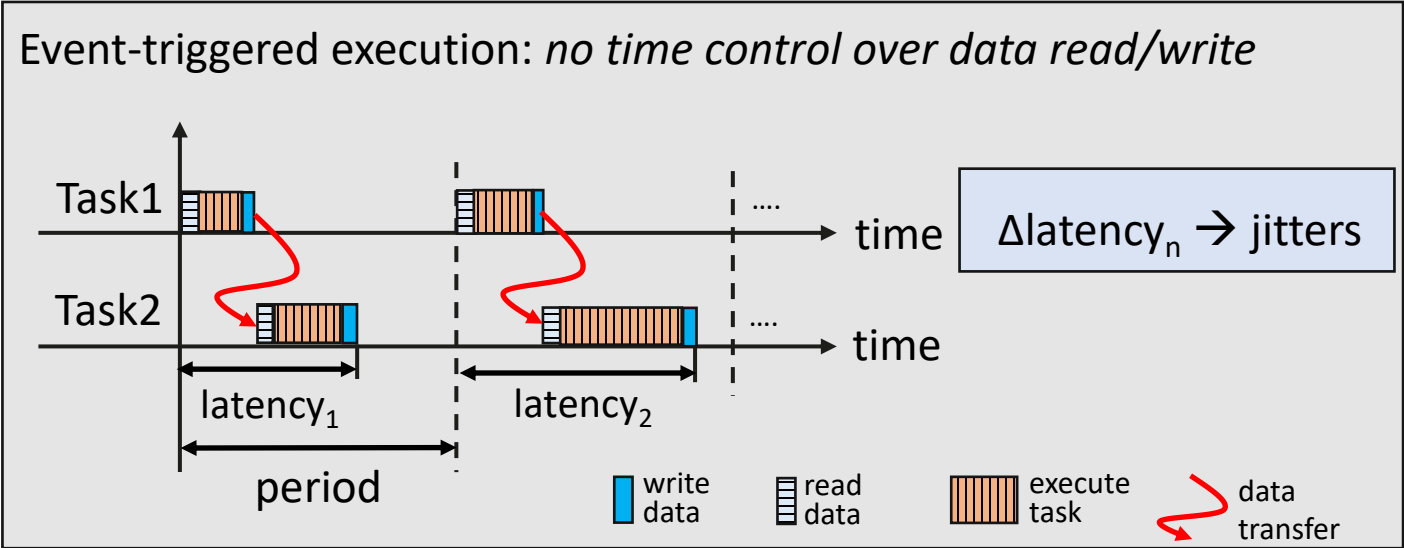
Low Latency and Jitter Temperature Monitoring System Architecture

Hazem Abaza

High-level idea (Scalable, Extendable Architecture)

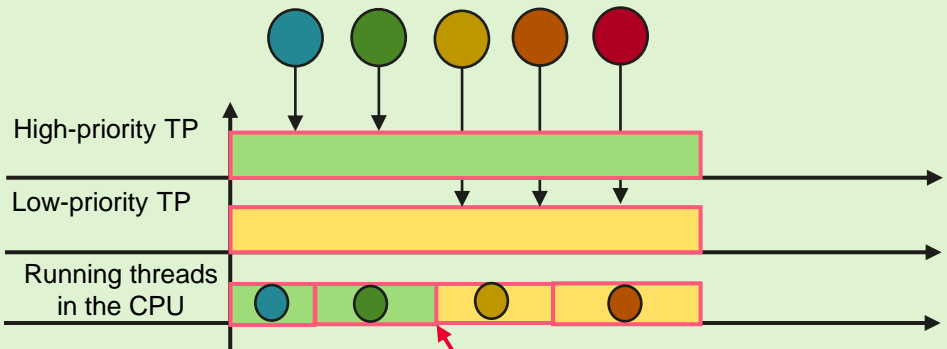


System LET



Flexible LET-based pub-sub architecture

Time Partitioning is a classic OS-level abstraction that limits interference between processes by bounding their resource consumption.

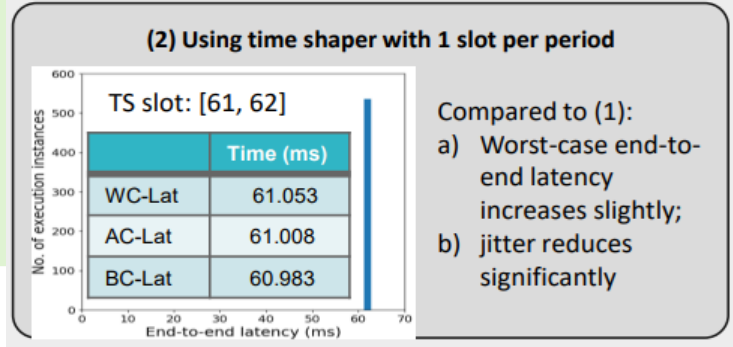
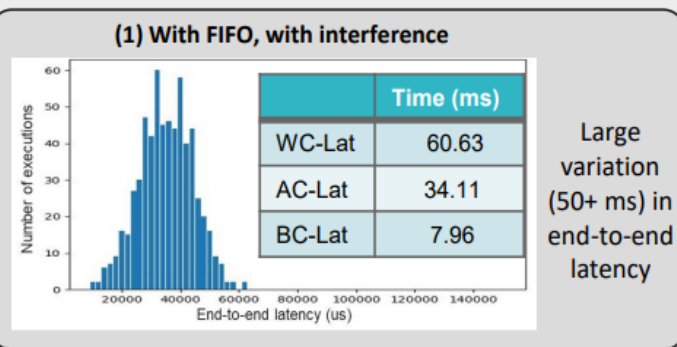
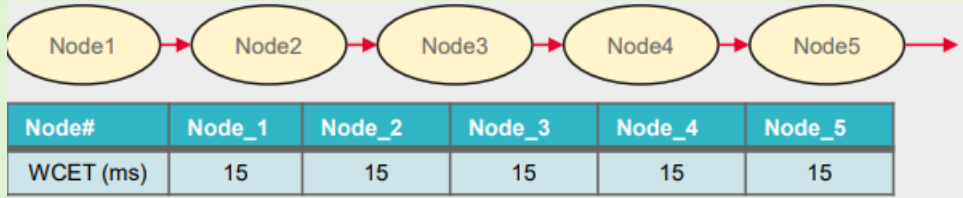
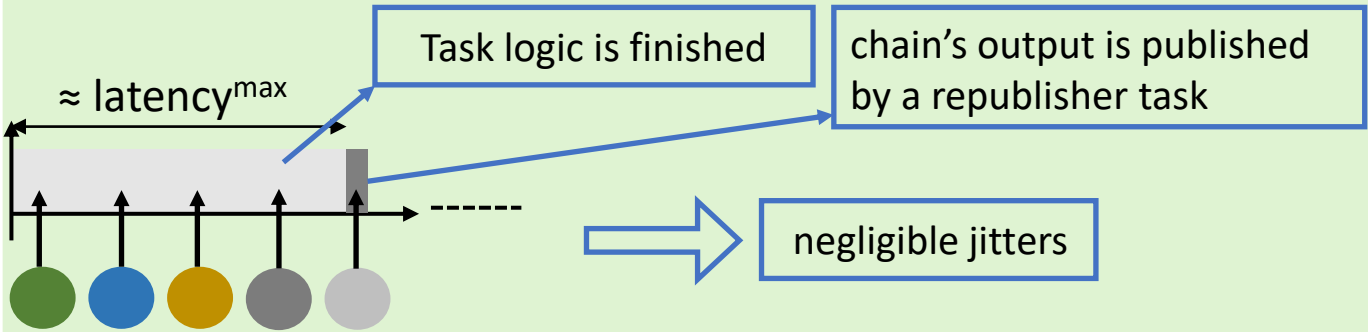


- ❖ No threads are ready-to-run in high-priority reservation server
- ❖ Threads from low-priority reservation server can run

Advantages:

- ❖ Precise control over threads' timings
- ❖ Good utilization for mixed-criticality workloads

Flexible Logical Execution Time.



High-level idea (Scalable, Extendable Architecture)

Performance With and Without LET

