

Goroutines



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goroutine

Light

Schedule

Scale

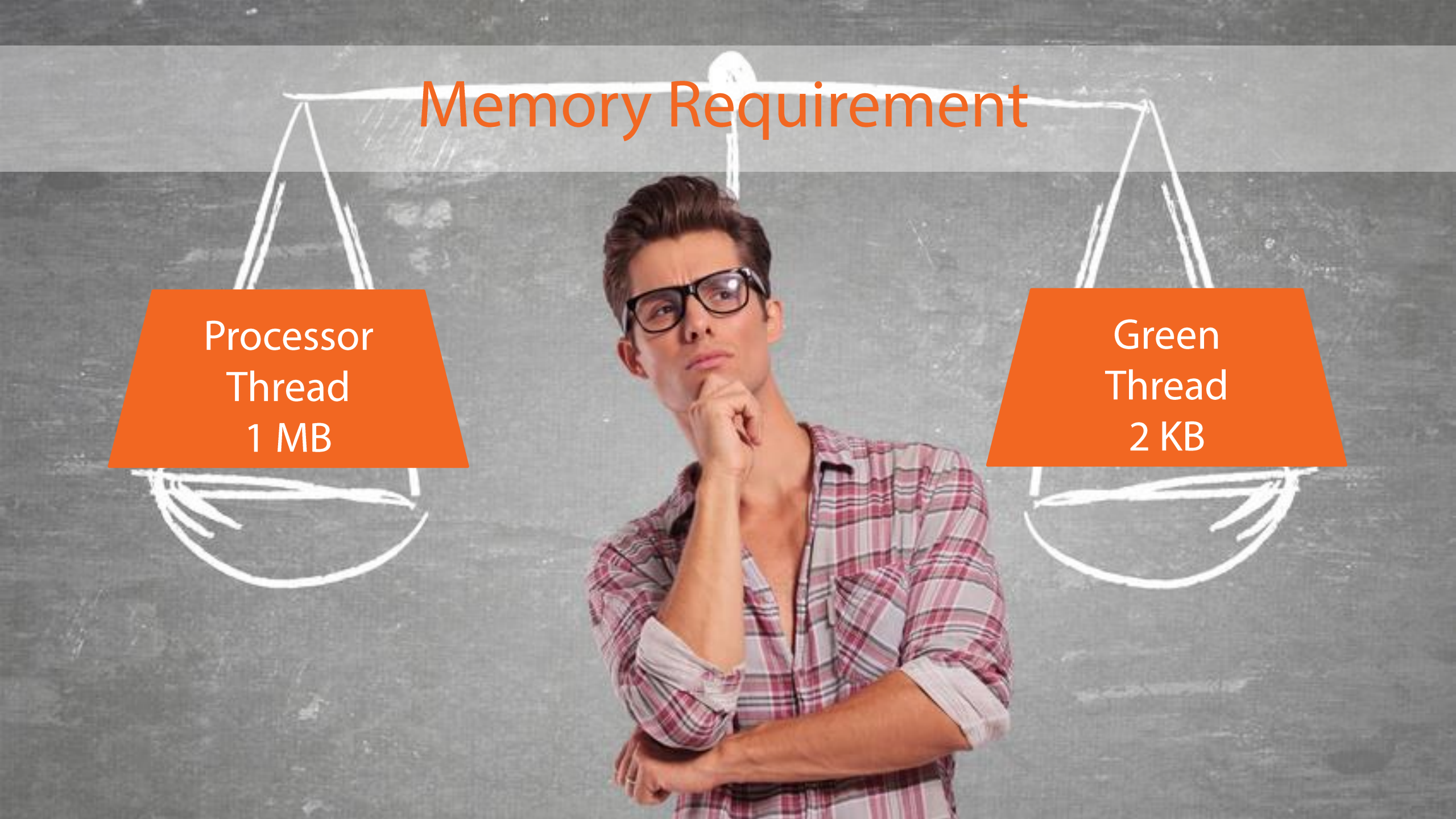
Memory Requirement

Processor
Thread

Green
Thread



Memory Requirement



Processor
Thread
1 MB

Green
Thread
2 KB

GOMAXPROCS

sets the maximum number of CPUs that can be executing simultaneously and returns the previous setting

Goroutine Basics

Create goroutines

Introduce parallelism



Asynchronous Web Services

Web service calls

Add concurrency

Add parallelism

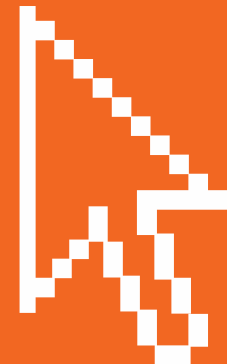


Filewatcher

Watch for file

Process file asynchronously

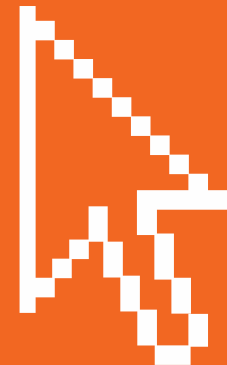
Add parallelism



Shared Memory

Using shared memory

Protecting shared memory



Summary



Concurrent and Parallel Execution

Performance Advantage

Shared Memory