» Scheduler runs go routiner

· Power resumer when goroutine is blocked on a downel or mutex operation. Co-ordinates blocking system cells (file I/O)

Taker core of runtine tasks

Garbase Collection |

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Logo routines are USER-Space threads . Not kernal OS thready Dishter of farter towelless nom.

+ earler to switch contest foot mint oos only know how to schefule proof on hadmanes (CPV) go routiness are movered by go sinting go Poutrines on go schedule puts the period threads !

The served threads!

The production is to utilise productions in ie Scale up to more cores!

work stealing; contention Co-operative Premption 3 sys mon unscheduler bond running go-routines when possible Dackerfond monitor thread -) Mover them to a global run queue L) A Lower priority runance Orecked less frequently than local thread run gneve

## Thread Spinning

otheready without work "Spin" and book for work in global runqueue, poll the notwork and book at other runqueues to perform work stealing.

This uses up more copy cycles, but leverages parallelism

## Runqueves

stored in a heaf allocated struct p

La Also stores resources the thread needs to run goroutines the Like a memory cache.

o A thread will daim a runqueue to run goroutines, sysmon will hand over when thread is blocked.

## Limitations of go scheduler

FIFO runqueuer I no war to providise goroutines

Dott like linux scheduler which uses priority queues.

· No Strong preemption
Lo No stooms fairvest / latency
quarantee

a Schedule of is not about of hardware topology

Louis LIFO runqueuses for better Cache utilisation?