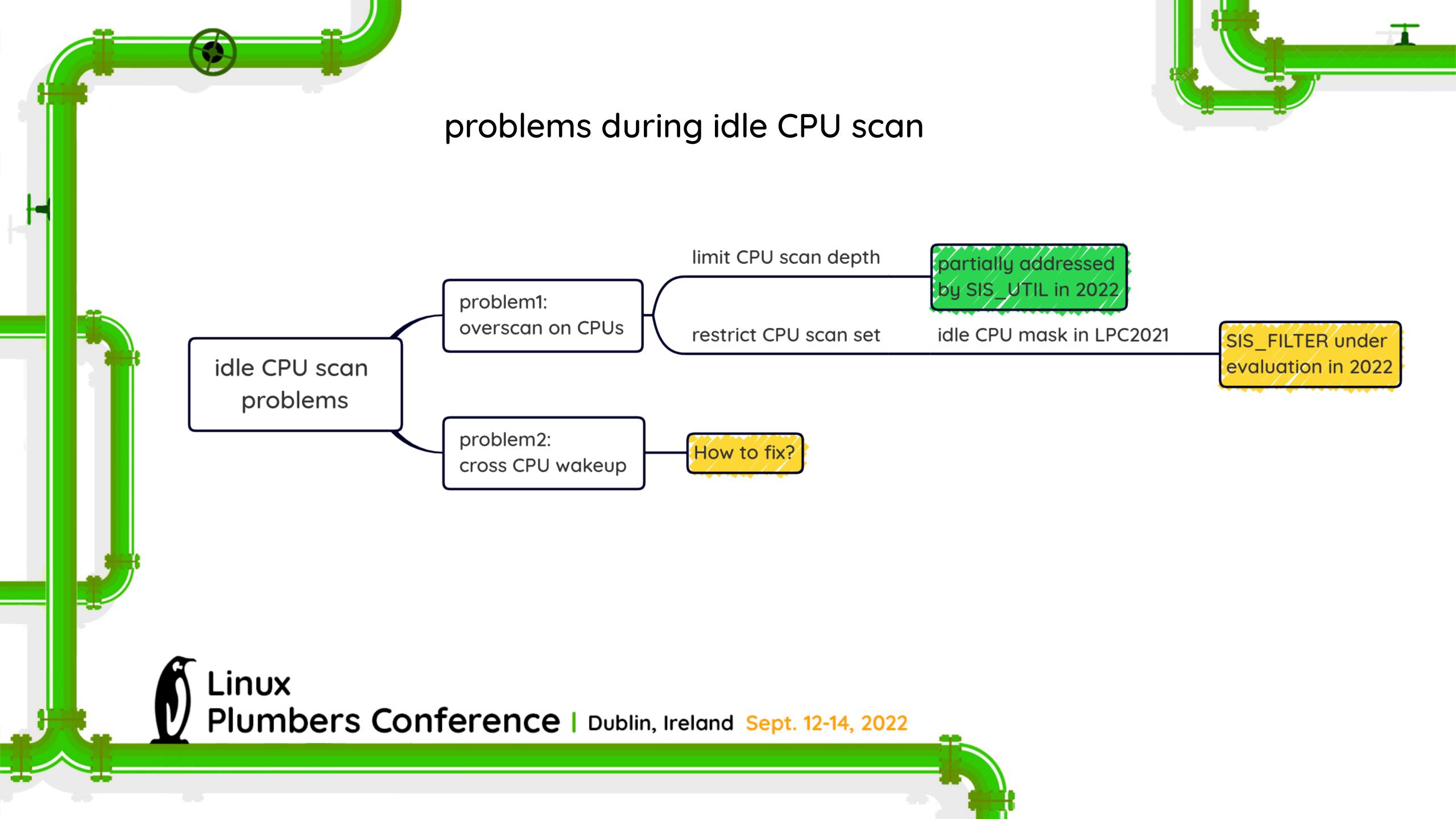


## Optimize idle CPU scan during task wake up

Chen Yu <yu.c.chen@intel.com>





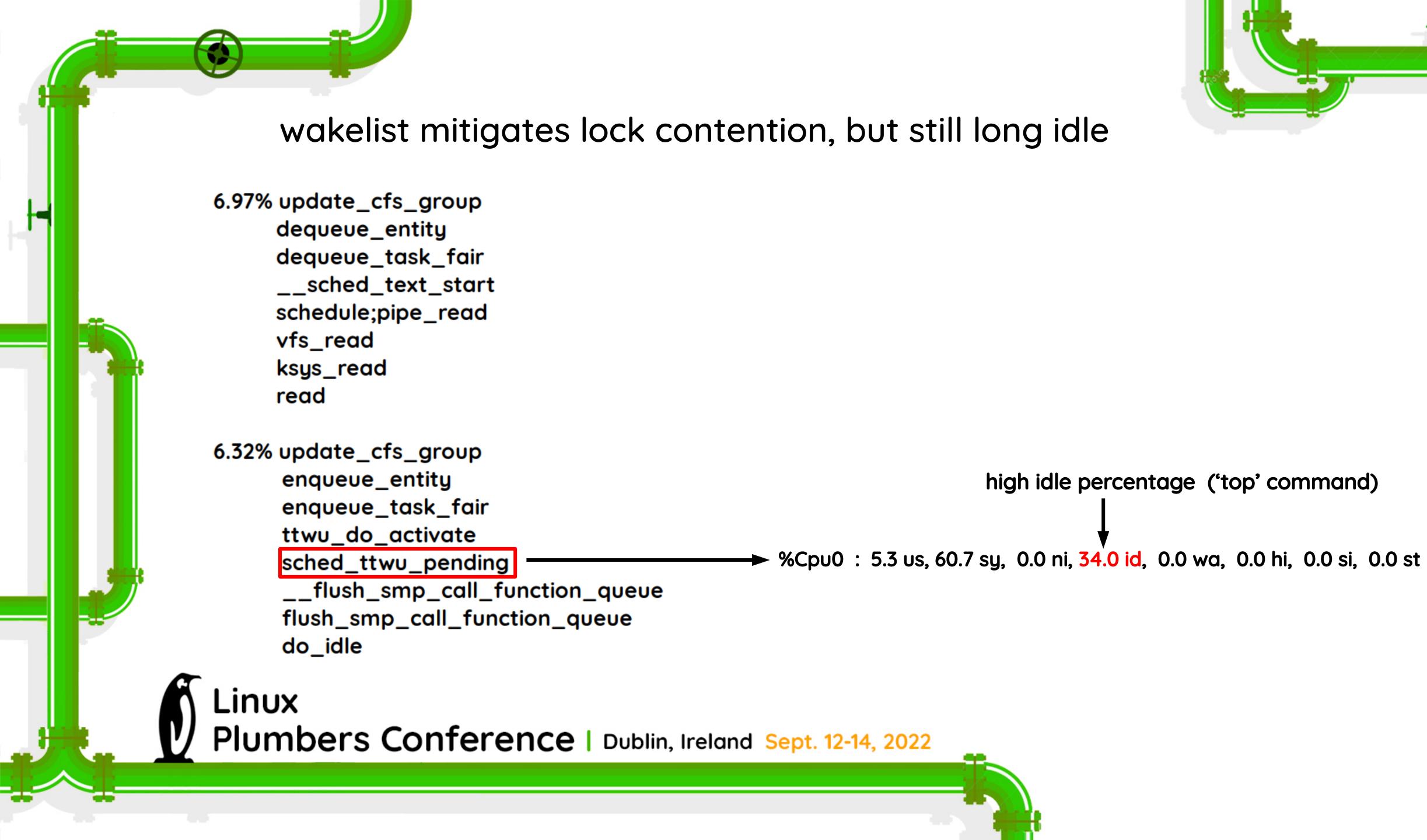


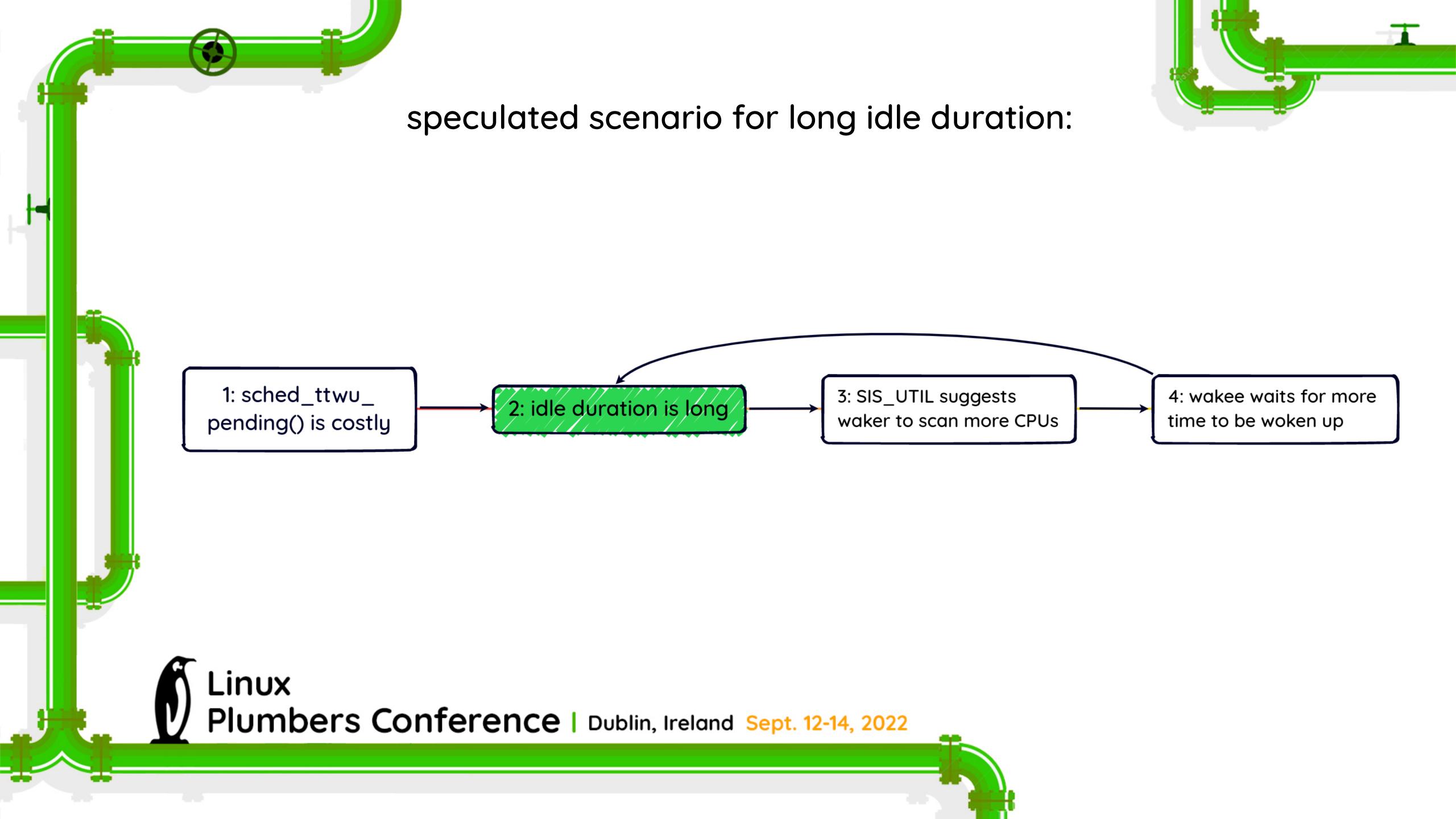
## cross runqueue lock causes high idle percentage

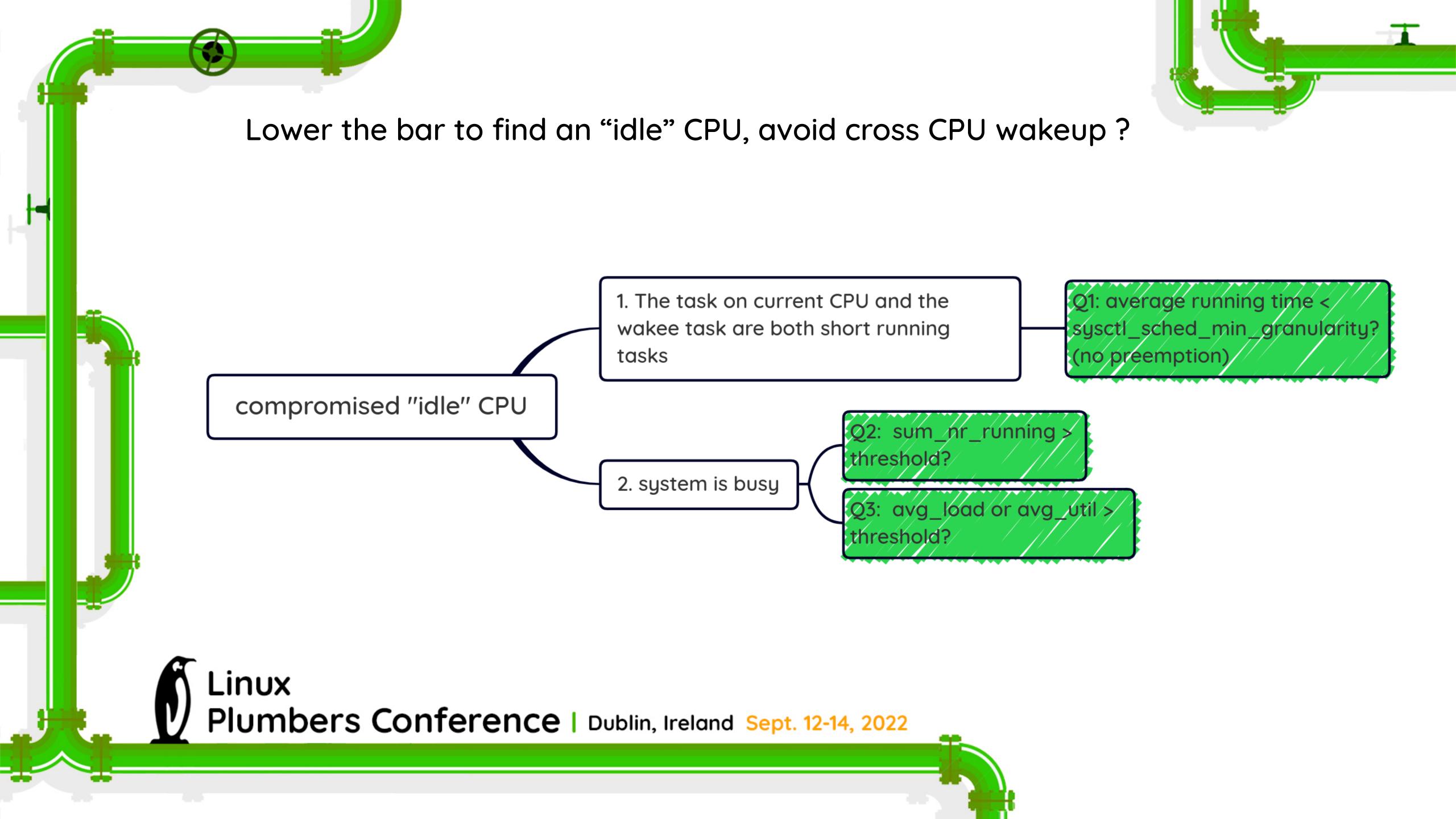
```
will-it-scale context_switch test, system is overloaded
8.94% raw_spin_rq_lock_nested.constprop.0
   try_to_wake_up;default_wake_function
   autoremove_wake_function
   __wake_up_common
   __wake_up_common_lock
   __wake_up_sync_key
   pipe_write
   new_sync_write
   vfs_write
   ksys_write
   write
                                                                   high idle percentage ('top' command)
5.41% raw_spin_rq_lock_nested.constprop.0
    _sched_text_start
   schedule_idle
                                            %Cpu0: 2.7 us, 66.7 sy, 0.0 ni, 30.7 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
   do_idle
```



Linux Plumbers Conference | Dublin, Ireland Sept. 12-14, 2022

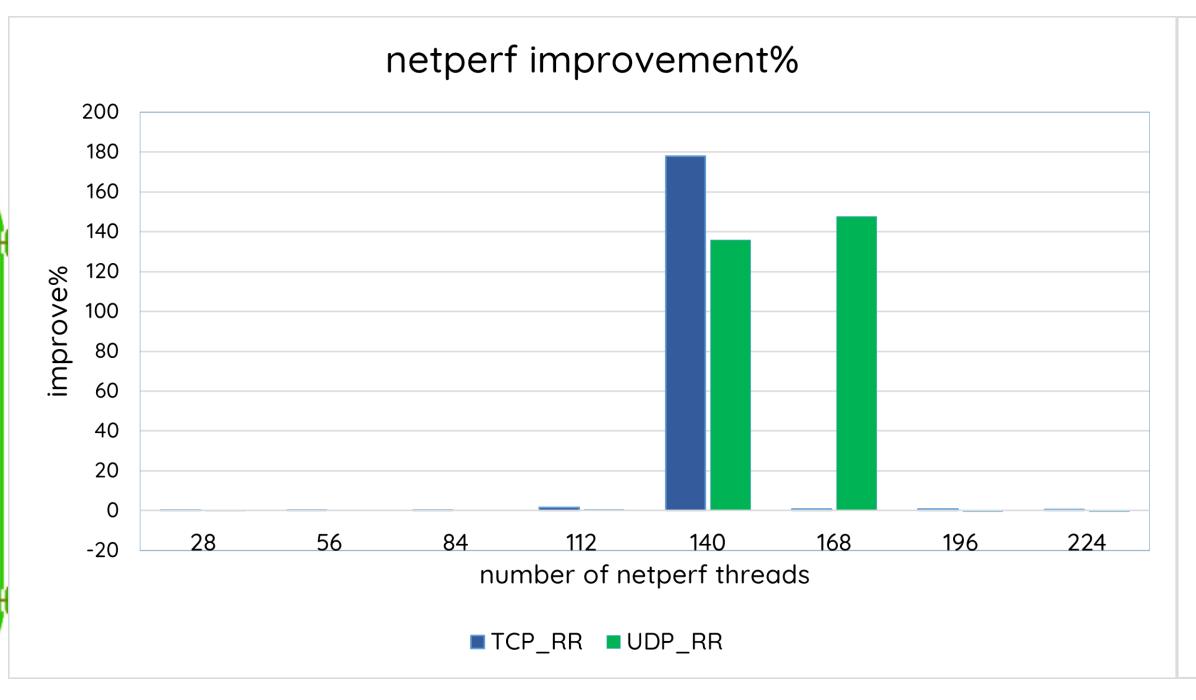


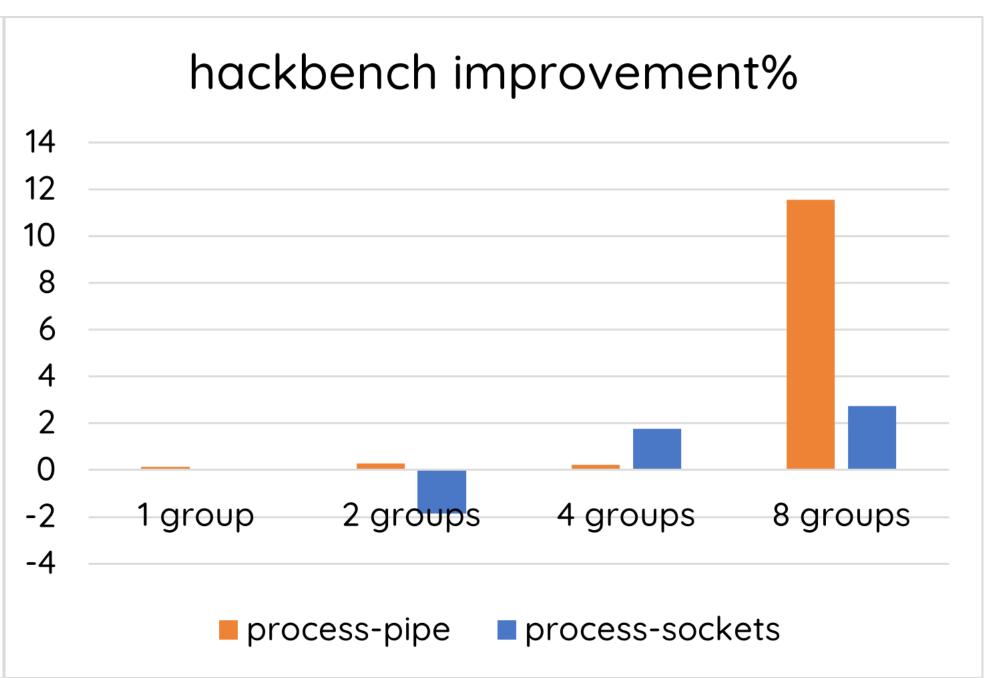






## benchmarks







Plumbers Conference | Dublin, Ireland Sept. 12-14, 2022

