Contribution ID: **43**   Type: **not specified**

CPU isolation tuning through cpuset

Tuesday, 13 September 2022 10:05 (35 minutes)

A long term project for CPU isolation is to allow its features to be enabled and disabled through cpusets. This includes nohz_full, unbound load affinity involving kthreads, workqueues and timers, managed IRQs, RCU nocb mode, etc... These behaviors are currently fixed in stone at boot time and can't be changed until the next reboot... The purpose is to allow tuning these at runtime, which happens to be very challenging.

Let's explore the current state of the art!

I agree to abide by the anti-harassment policy

Yes

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Session Classification: CPU Isolation MC

Track Classification: LPC Microconference: CPU Isolation MC