



Contribution ID: 53

Type: **not specified**

Restartable Sequences: Scaling Per-Core Shared Memory Use in Containers

Wednesday, 14 September 2022 12:35 (25 minutes)

Introducing per-memory-space virtual CPU IDs allocation domains helps solving user-space per-core data structure memory scaling issues as long as the data structure is private to a memory space (typically a single process). However, this does not help in use-cases where the data structure sits in shared memory used across processes.

In order to address this part of the problem, a per-container virtual CPU ID domain would be useful. This raises some practical questions about where this belongs: either an existing namespace or a new “vcpu domain” namespace, and whether this type of domain should be nestable or not.

Reference: “Extending restartable sequences with virtual CPU IDs”, <https://lwn.net/Articles/885818/>

I agree to abide by the anti-harassment policy

Yes

Primary author: DESNOYERS, Mathieu (EfficiOS Inc.)

Presenter: DESNOYERS, Mathieu (EfficiOS Inc.)

Session Classification: Containers and Checkpoint/Restore MC

Track Classification: LPC Microconference: Containers and Checkpoint/Restore MC