

Linux Plumbers Conference 2025



Contribution ID: 268

Type: **not specified**

Kexec Handover Performance Improvements

The KHO framework's initial design relies on a stateful, linear serialization step that creates a scalability bottleneck on large-memory hosts. This talk will detail our effort at making KHO stateless by changing the data structures which manage preserved physical pages.

The session will also facilitate an open discussion on future optimizations. We will explore potential designs for making KHO compatible with deferred struct page initialization and brainstorm different strategies for multi-threading the preserved page loop during the boot of the new kernel.

Primary author: MIU, Jason

Presenter: MIU, Jason

Session Classification: Live Update MC

Track Classification: Live Update MC