

Linux Plumbers Conference 2025



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Kexec Handover Performance Improvements

Saturday 13 December 2025 16:00 (15 minutes)

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.

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Session Classification: Live Update MC

Track Classification: Live Update MC