

Linux Plumbers Conference 2024



Contribution ID: 125

Type: **not specified**

ks-nav

Friday, 20 September 2024 15:45 (15 minutes)

The Linux Kernel does not come with comprehensive and complete architectural design documentation and yet such information is needed to support technical analyses in critical industries (e.g. functional safety) and can be useful for both maintainers and developers along the standard Linux Kernel development.

The Kernel is partitioned in drivers and subsystems, with associated maintainers controlling the respective code contributions.

How can we visualize dependencies between different subsystems? How to visualize the SW resources handled by each subsystem or shared between different subsystems?

ks-nav is a working in progress tool, in the miniconf I want to discuss and seek advice for a couple of features I want to add to ks-nav:

- A Web interface I want to add to the tool to improve the user experience and providing the user the interaction with the diagrams while browsing the code.
- Discuss an effective way to identify the targets of the indirect calls discovered during the analysis.

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Session Classification: Safe Systems with Linux MC

Track Classification: Safe Systems with Linux MC