

Rust

Miguel Ojeda
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The patch series was trimmed down to a fairly minimal set of changes.

Is there anything else you would like to see?

If the minimal series is merged, what is the expected path for the remaining parts?

Their subsystems tree? The Rust tree?

Maintainership of Rust abstractions

Any objections to subsystems maintainers doing it?

Additional topics

Splitting the kernel crate

- Dependency management between internal crates.
- Writing crates in the rest of the kernel tree.

Toolchain requirements

- Minimum Rust compiler version.
- Cadence of upgrades of the minimum version.

GCC support

- Architecture support.

Licensing

- Reusing the kernel crate components (i.e. in other projects).
- Allowing non-GPL third-party kernel modules.

Additional topics

Panics

Consequences of a Rust panic.

Integer overflows.

CONFIG_RUST=y without the Rust toolchain

Bisection implications.

Sphinx/kernel-doc and rustdoc integration

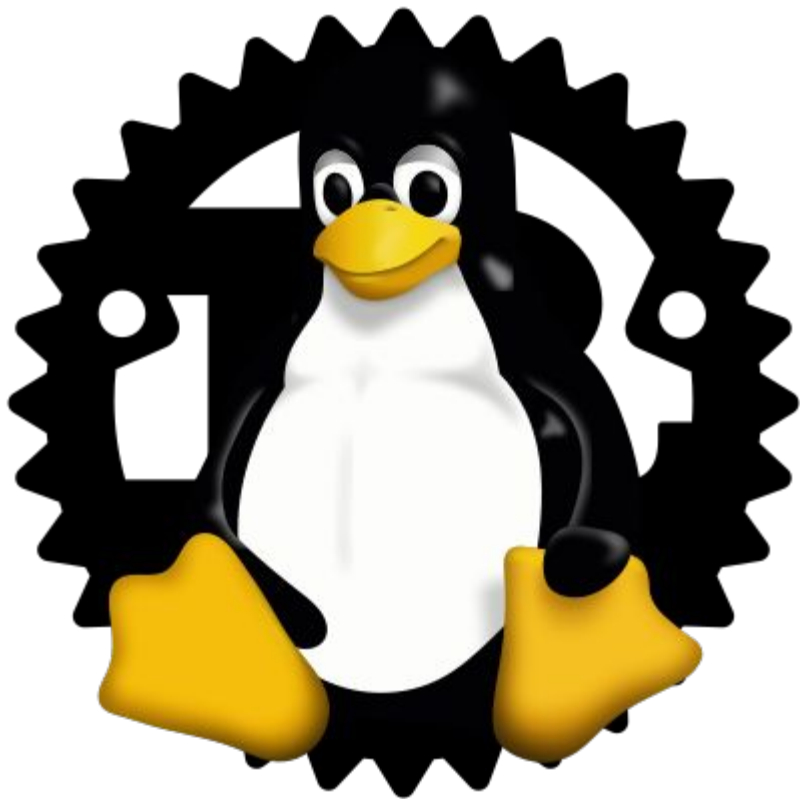
Allowing external dependencies

Vendoring of useful third-party crates

Further integration in the different kernel CIs

Thank you!

Questions?



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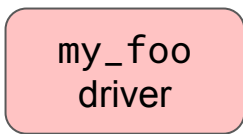
Backup slides



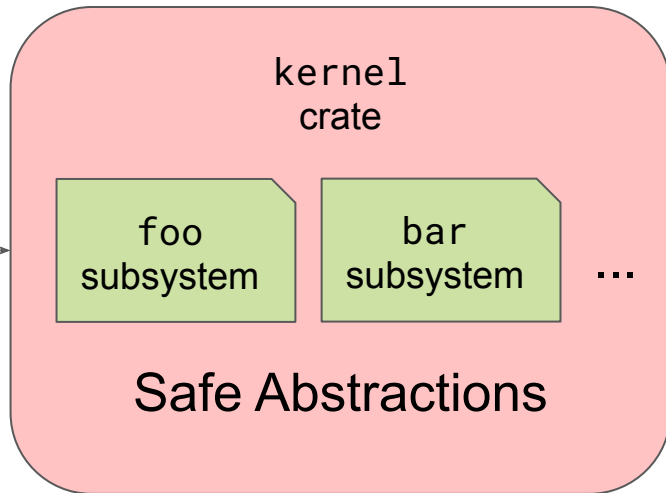
Linux tree

drivers/

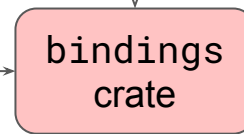
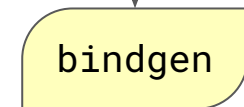
foo/



Safe



Unsafe



include/

Forbidden!



Rust tree



Linux tree

library/

rust/

include/

