

Linux Plumbers Conference 2025



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Clean-up on Aisle "fsconfig(2)"

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While the “new” mount API has been a massive improvement in the flexibility of mount infrastructure on Linux (and has allowed us to develop all sorts of new features over the past 7 years) there are still a handful of usability issues which should be addressed.

Container runtimes in particular would probably like to be able to use the completely-unused `FSCONFIG_SET_PATH{_EMPTY}` to avoid race attacks, but the infrastructure for using it is quite baroque. There are also been some recurring issues around the uAPI surrounding singleton superblocks (`FSCONFIG_CMD_CREATE_EXCL` no longer makes this implicit but doesn’t provide much help to userspace to know what is going on).

This talk will go these and a few more issues I’ve found so far (while working on the long-awaited **and finally merged** man pages for the “new” mount API) and open into a discussion of any other pain-points folks have had which should also be addressed.

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