kpmcore implementations and goals for the future

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whoami

- Brazilian
- KDE Partition Manager, Calamares, marK
- Student at Federal Institute of Bahia

Topics

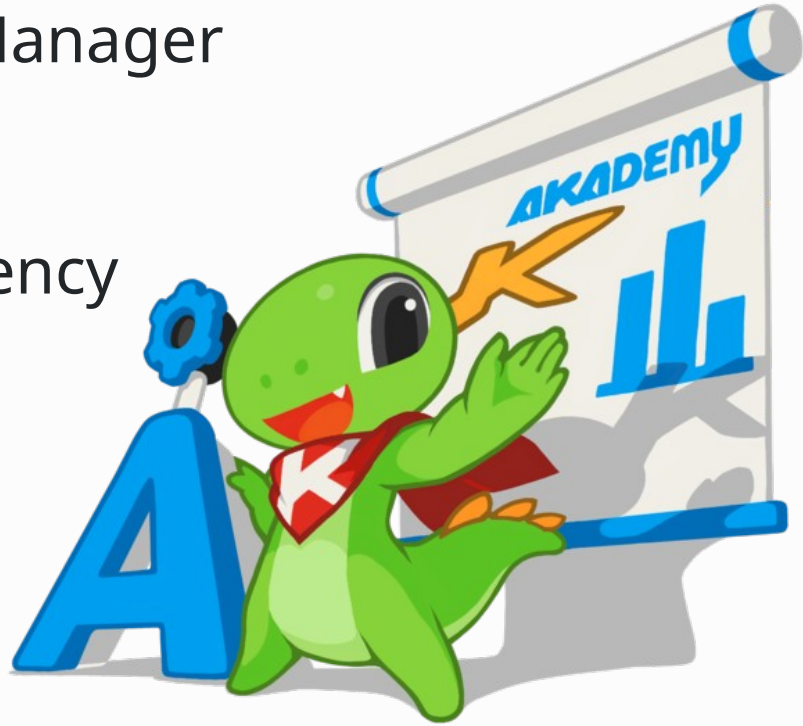
- kpmcore
- Season of KDE 2018
- Google Summer of Code 2018
- Google Summer of Code 2019
- KDE Partition Manager 4.0
- Goals for the future

kpmcore

- Library for managing partitions and executing disk operations
- KDE Partition Manager core

Season of KDE 2018

- Replaced unmaintained libatasmart support to calling smartctl command in KDE Partition Manager
- Parsed smartctl JSON output
- Removed libatasmart library dependency
- Improved KAuth support



Google Summer of Code 2018

- Finished LVM Volume Group support
- Implemented MDRAID support
- Worked with LVM support in Calamares

Google Summer of Code 2019

- Shubham
- Port Authentication to Polkit-qt-1
- Improve QDBus communication

KDE Partition Manager 4.0

- kpmcore backend was ported away from libparted to sfdisk
- SMART support improvements were merged
- Better support for LUKS2
- APFS and Microsoft Bitlocker support
- Modern C++
- SMART and sfdisk ports made KPM more portable

Goals for the future

- Full compatibility with FreeBSD
- Polkit port
- Evolve FS support, including specific features
- Merge MDRAID and implement DMRAID
- Increase the number of automated tests

Thanks, KDE!

Questions?