

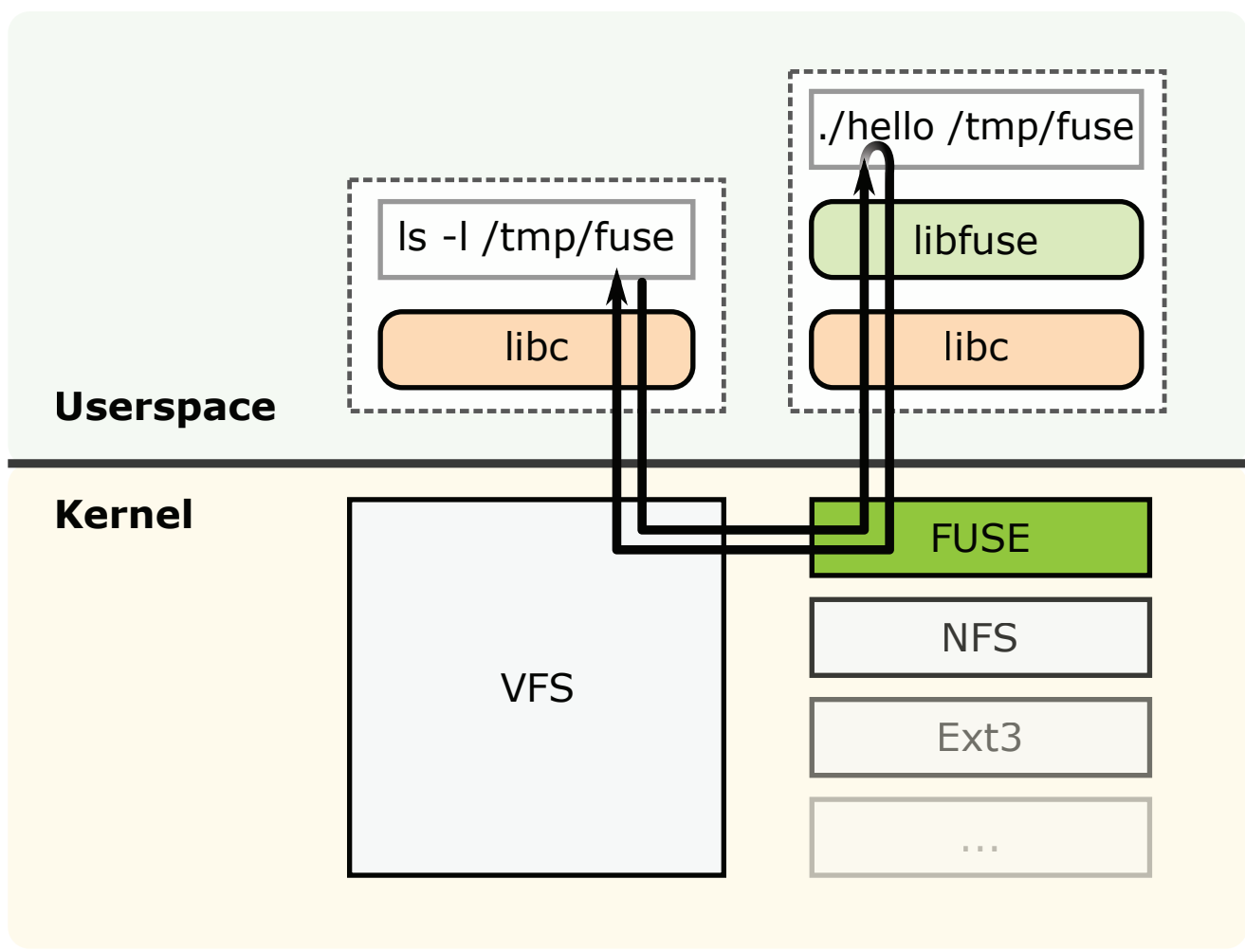


Finesse: Kernel Bypass for FUSE File Systems

Matheus Stolet
stolet@cs.ubc.ca
University of British Columbia, Vancouver BC

Tony Mason
fsgeek@cs.ubc.ca
University of British Columbia, Vancouver BC

File Systems In User Space



Source: <https://commons.wikimedia.org/w/index.php?curid=3009564>

Challenges:

- Large body of existing applications
- Rigid interfaces
- Implicit state information
- Performance
- Existing semantics

Advantages:

- Large body of existing applications
- Cross-platform support
- User mode development (easier)
- Easy to prototype/build
- Well understood semantics

