Towards a Formally Verifiable Multiprocessor Microkernel
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Reduce parallelism by having a big lock around the whole kernel

Formal verification approach of the uniprocessor version

Reduce concurrency
Reduce proof complexity induced by concurrency

GOAL!

Reduce sharing with a multikernel approach like in Corey or Barrelfish

One isolated kernel/userland image per CPU = no sharing

Message transfer between CPUs

Communication and resource transfer between CPUs

Resource sharing between CPUs

Progress: implemented in C and semi-formally proved