Graduate Operating Systems

Fall 2017

Paper “Superpages”

- Small pages vs. large pages
- TLB coverage
- Hardware-imposed constraints
- Relocation-based allocation
- Reservation-based allocation
- Promotion, demotion, eviction
- Buddy allocator
- Superpage size
Paper “Superpages”

- Incremental promotions
- Speculative demotions
- Dirty superpages
- Reservation lists
- Population map
- Contiguity-aware page daemon
- Wired page clustering