6.897
L26.2
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IMPLEMENT **Austin Clements & Dan Ports: persifs**

- persistent file system
- partial persistence: look @ past, no changes
- model: read/write interval of a file
- "systems data structure → data-structure system"
- B+ tree + persistence [Sleator & Tarjan]
  - data just in leaves
- Identical "chunks" detected via cryptographic hash & stored only once ("chunk fusion")
- modifications can be grouped atomically via commits

Brian Jacokes: splay trees & traversal conjecture

- in-order traversal of splay tree costs $O(1)$ am. [Tarjan]
- pre-order traversal of current tree costs $O(1)$ am. in splay [Chaudhuri & Hoft]
- OPEN (traversal conjecture): pre-order traversal of any tree costs $O(1)$ am. in splay
- NEW:
  - splay potential doesn't work
  - doesn't follow from other theorems on splay
  - brute-force experiments → worst tree, starting tree up to ≈ 19