CS 5600 04/03 2023 1. SSD continued 2. Intro to fs 3. Files 4. Directories • Lab 3, • Lab 5, • Lab 5

• 55D.

Week 13.a

- tread: I page, ~los us t
 erase: I block, ~ls ms jax lox
 Program: I page, ~loos us
- · Wear-out:



· files ~ [nser: a seg of bytes.

Q? (FS: a set disk blocks

<file, offset > ---> dislc block addr VMem, per-process: VA _PT > PA



Q: designing file - mapping

- design parameters:

- * small files (most files are small)
 vs.
 large files (much of the disk is allocated to large files)
- * access patterns: sequential access vs. random accesses vs. keyed accesses
- * disk utilization (metadata overhead and fragmentation)

· 3 Candidates (A) Continuous allocation (extent-based file) (B) linked files (c) indexed files. 1 read (f1, offset = 513) f1 [len:3 fz [len:2 23456 0 (fz 4 34567 Σ (D Q: How large is the table?

. Unix inode

