





Improving Filesystem Performance — Block **Read-Ahead**

• Idea — if file is being read sequentially, can read some blocks "ahead". (Of course, doesn't help if file is being read non-sequentially. Decide based on recent access patterns.)

Slide 4



 Group blocks for each file together — easier if bitmap is used to keep track of free space. If not grouped together — "disk fragmentation" may affect performance.

Slide 5

• If i-nodes are being used, place them so they're fast to get to (and so maybe we can read an i-node and associated file block together).







