

Project 3
FUSE file system



- **Project goal**
 - Implement a simple FUSE file system using libfuse
- **Due: 10th June, 23:59**
- **Baseline**
 - Implement root directory (no subdirectory)
 - **File read/write:** run IOzone to prove it working
 - **File allocation:** sequential (no fragmented) block allocation
- **You need to implement**
 - getattr, readdir, open, read, write



File system layout

- Use a 1 GB file as a storage media

```
$ truncate -s 1G disk.img
```

- Layout

- 4 KB blocks

- Block bitmap size: 32 KB (8 blocks)

- Inode bitmap size: 1 block ← you define # of inodes

- Array-based directory (max length: 100 bytes)

