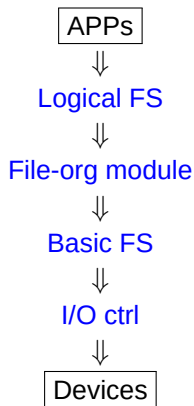


# The Operating Structure



## Example — To create a file

1. APP calls `creat()`
2. Logical FS
  - 2.1 allocates a new FCB
  - 2.2 updates the in-mem dir structure
  - 2.3 writes it back to disk
  - 2.4 calls the file-org module
3. file-organization module
  - 3.1 allocates blocks for storing the file's data
  - 3.2 maps the directory I/O into disk-block numbers

## Benefit of layered design

The I/O control and sometimes the basic file system code can be used by multiple file systems.