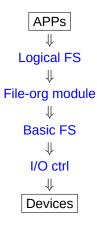
## File-System — A Layered Design



- logical file system manages metadata information
  - maintains all of the file-system structure (directory structure, FCB)
  - responsible for protection and security
- ► file-organization module
  - $\begin{array}{ccc} & \text{logical block} & \underline{\textit{translate}} & \text{physical block} \\ & \text{address} & & \text{address} \end{array}$
  - keeps track of free blocks
- basic file system issues generic commands to device driver, e.g
  - "read drive 1, cylinder 72, track 2, sector 10"
- ▶ I/O Control device drivers, and INT handlers
  - device driver: high-level commands translate hardware-specific instructions