

File System Interface

file ← smallest allotment of logical secondary storage

└─ Data
└─ Program

File → Text file
→ source file
→ Executable

File attributes → name
→ identifier
→ Type
→ location
→ Size
→ protection
→ Time, date, user identification.

file operations → create	Delete
Read	Truncate
write	Open (F_i)
Reposition within file (seek)	Close (F_i)

Open file Table ← Info abt currently open file is stored

└─ file pointer
File open count
Disk location of file
Access rights

File locking → shared lock
→ exclusive lock
→ mandatory lock (Windows)
→ advisory lock (UNIX)

Internal file struct → Internally files are organized in units of logic units

↓
No. of logical units which fit into one phy block determines its packing