COMP 3430

Operating Systems

June 26th, 2019

Evaluating a file system

Here are some guiding questions to help evaluate a file system and its implementation:

1. Flexibility/expandability (can this FS handle gigabyte size files and terabyte size disks?)
2. Wasted space (how many bits are *wasted* by the FS?)
   – What *is* waste 🗑?
3. Efficiency (how *fast* can I access a file with this FS? Can this FS become *fragmented*?)
4. Ease of implementation (can *I* write code to work with this FS?)
5. Data structures (how does this FS structure data on disk?)