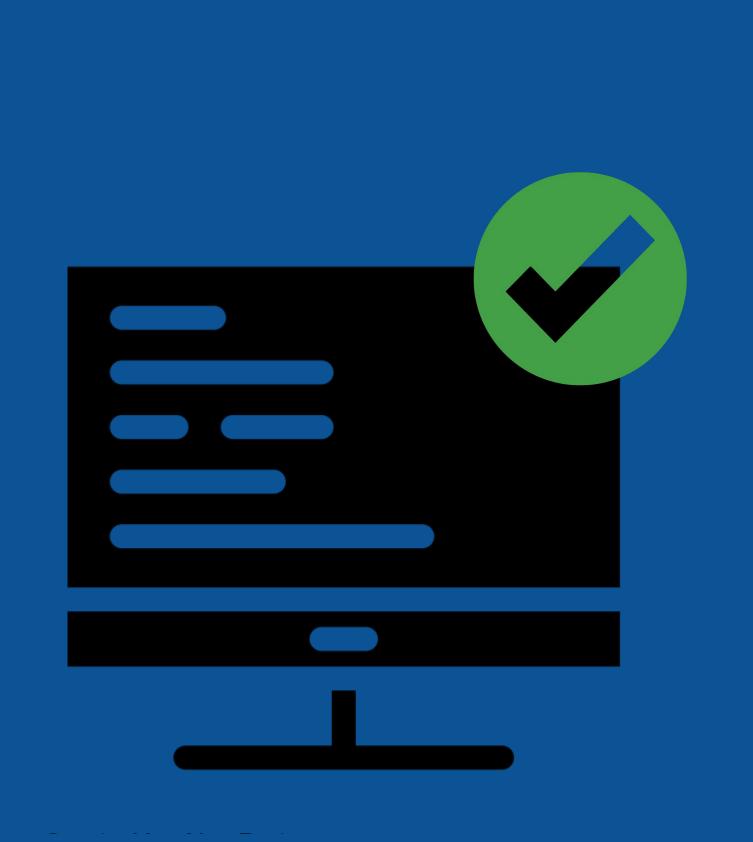
Programs can run fine on one computer but then break on another.



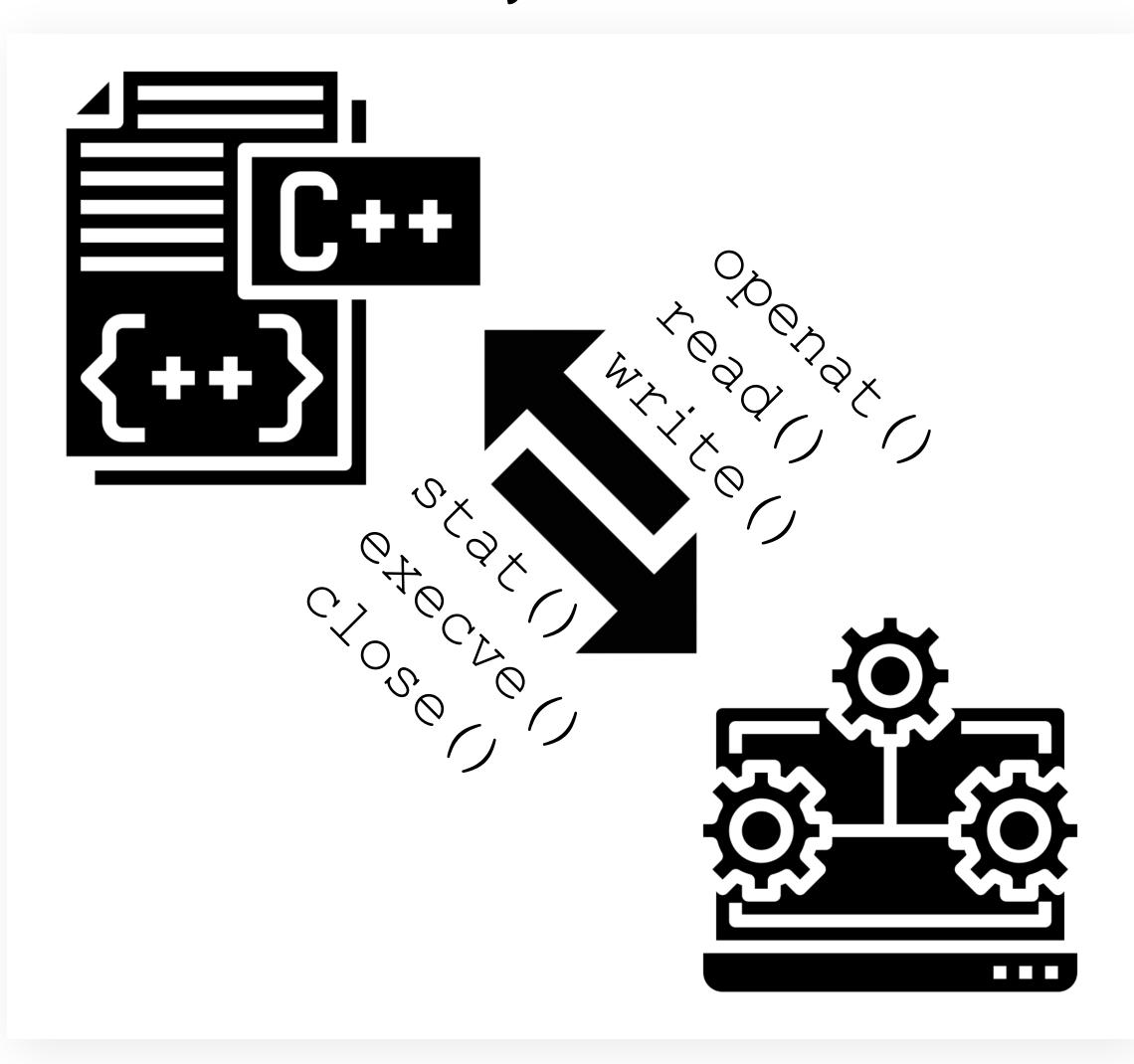
BitFridge ensures that programs run correctly on every computer.



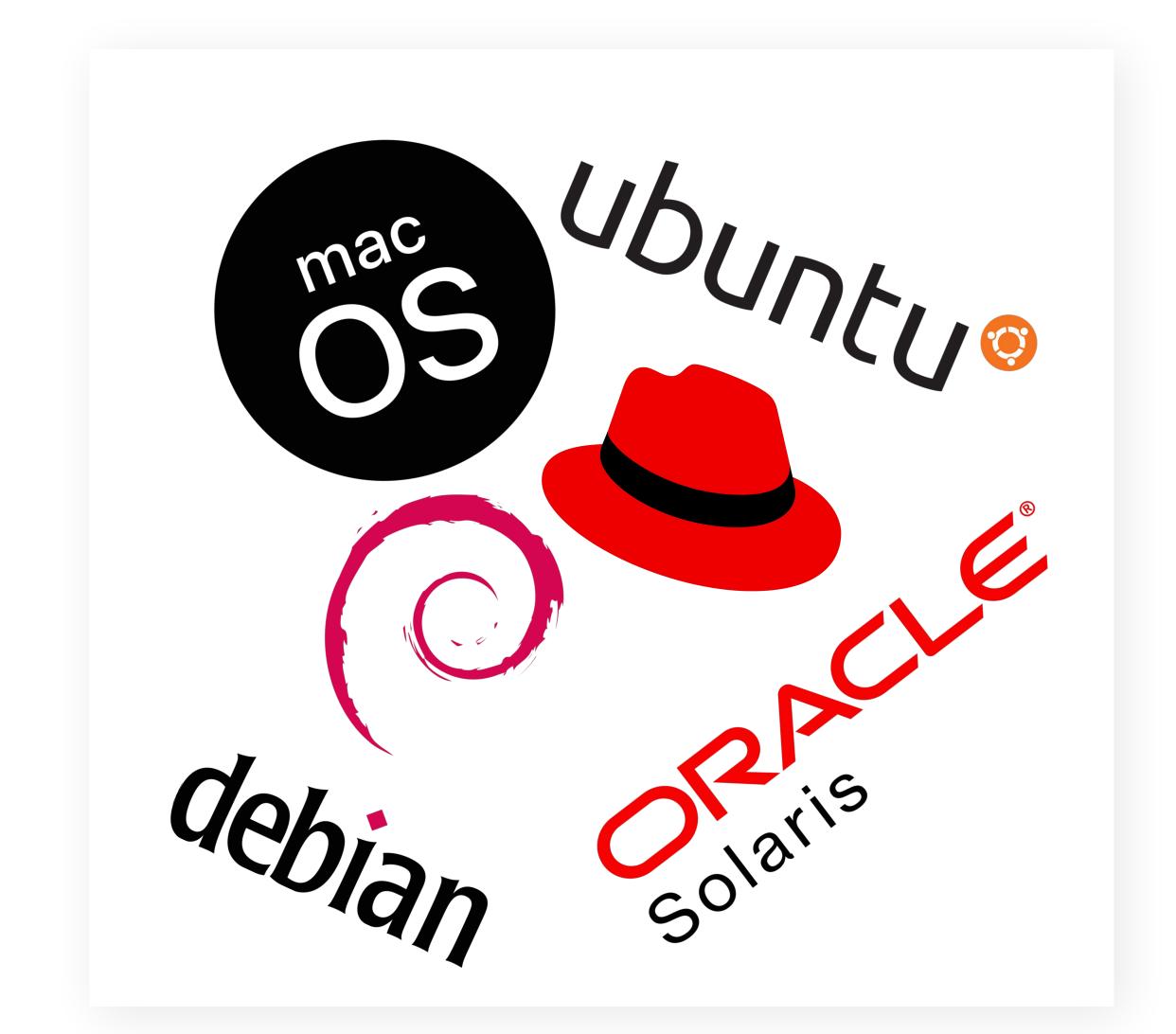


BitFridge: Defending Applications from Bitrot

Programs use **system calls** to communicate with the operating system.

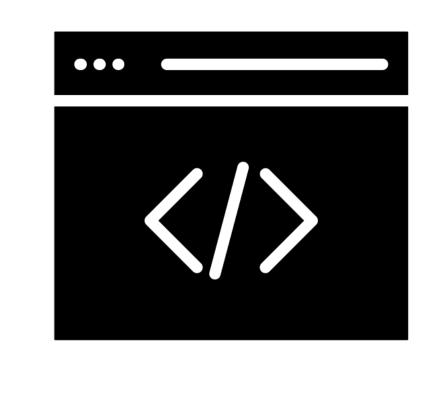


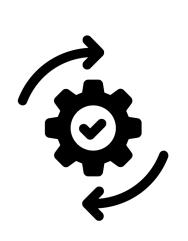
These can behave unexpectedly on different operating systems.

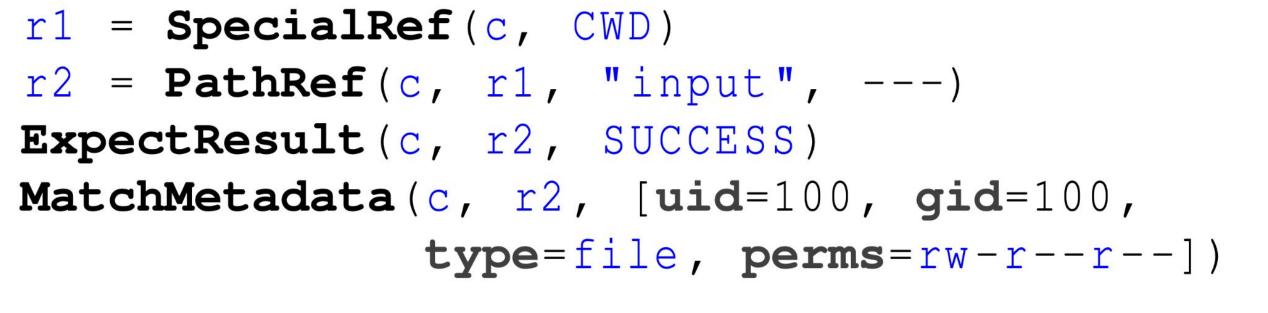


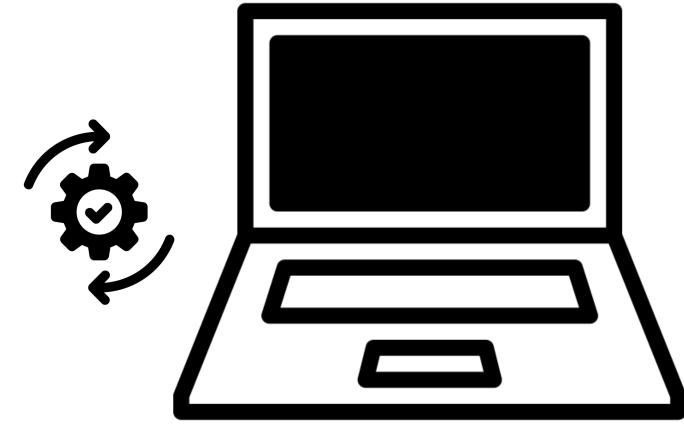
BitFridge circumvents this by tracing a program's effects onto a separate transcript...

...and runs that trusted, correct representation on the user's machine.









Rijul Jain '25, Daniel W. Barowy