



# Computer Systems B

## COMS20012

Introduction to Operating Systems and Security

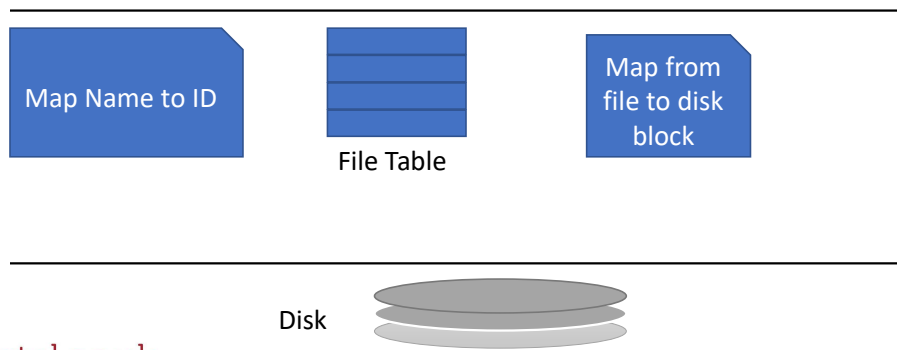
[bristol.ac.uk](http://bristol.ac.uk)

# Files and System Calls

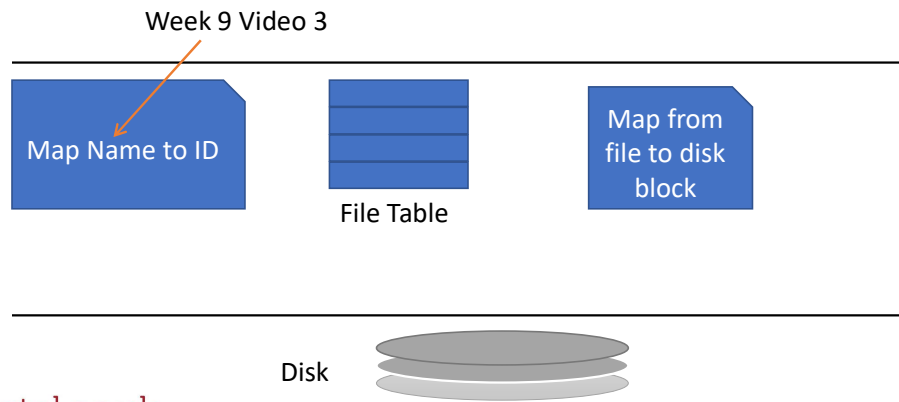
[bristol.ac.uk](http://bristol.ac.uk)



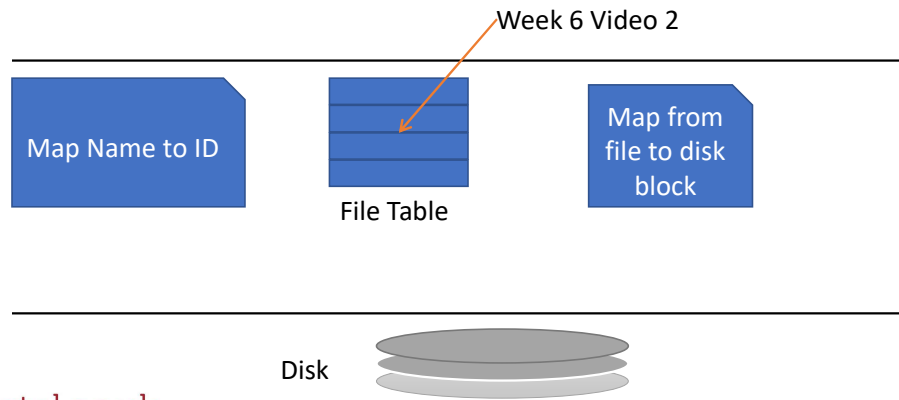
## From System Call API to disk



## From System Call API to disk

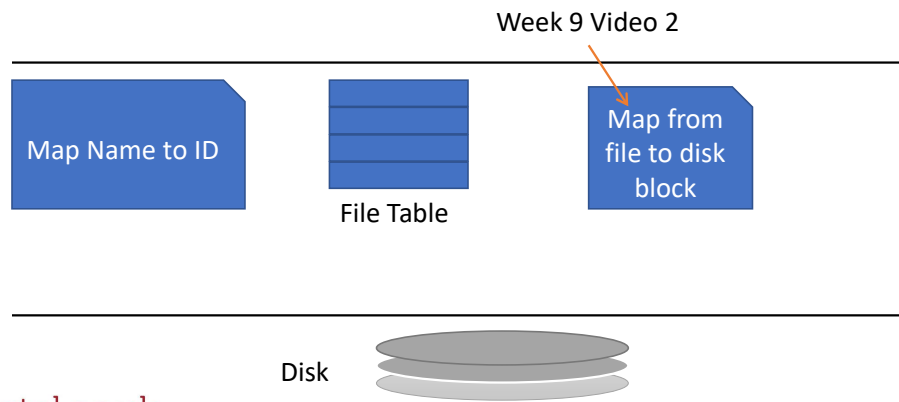


## From System Call API to disk

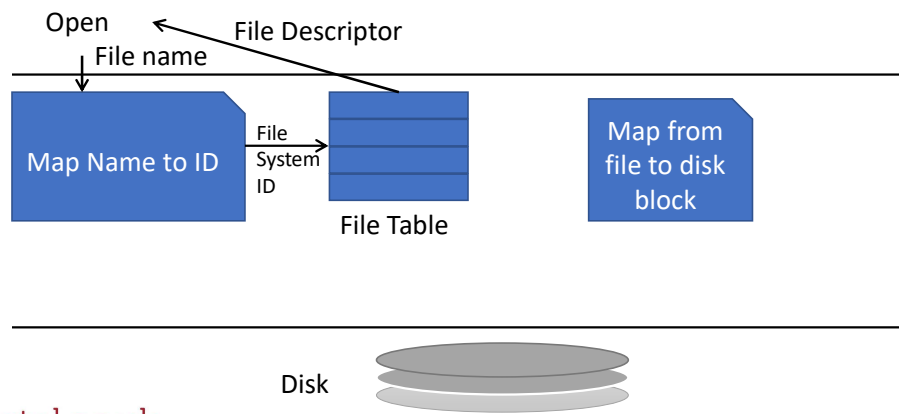


[bristol.ac.uk](http://bristol.ac.uk)

## From System Call API to disk

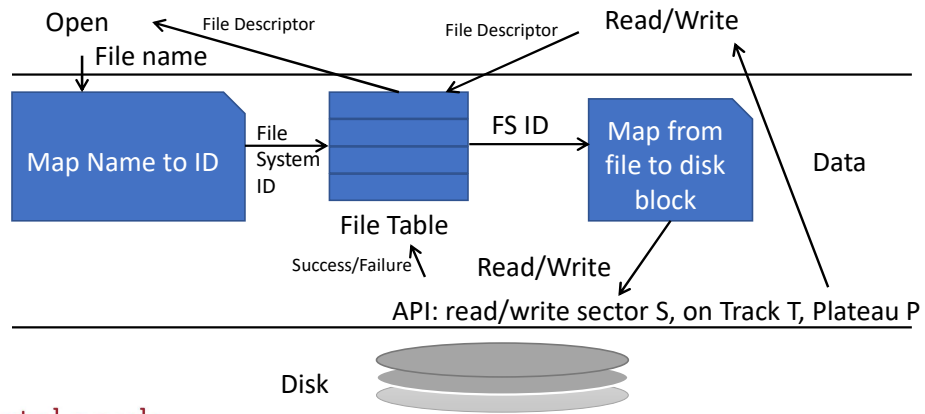


## From System Call API to disk



bristol.ac.uk

## From System Call API to disk



bristol.ac.uk



# Problem?

[bristol.ac.uk](http://bristol.ac.uk)



# Problem?

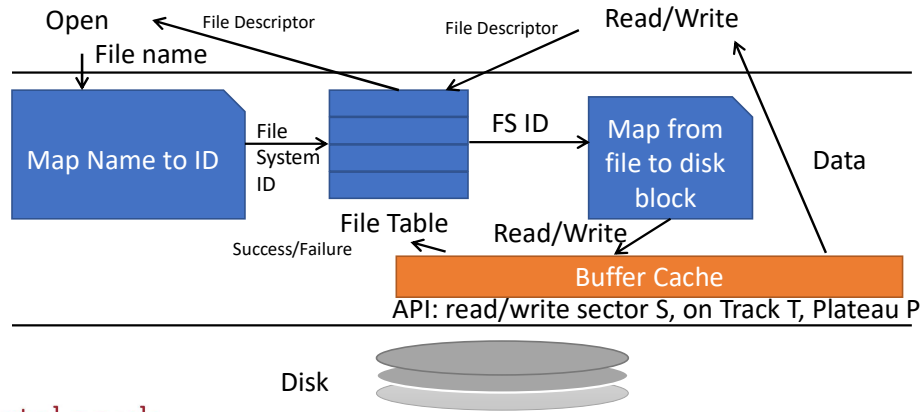
Disk are very slow!

[bristol.ac.uk](http://bristol.ac.uk)



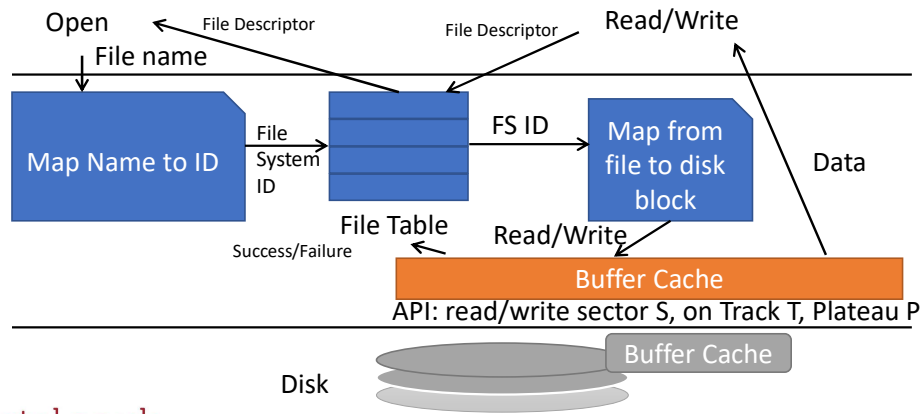
## From System Call API to disk

Typical CS solution to fix  
"slow" add some cache!



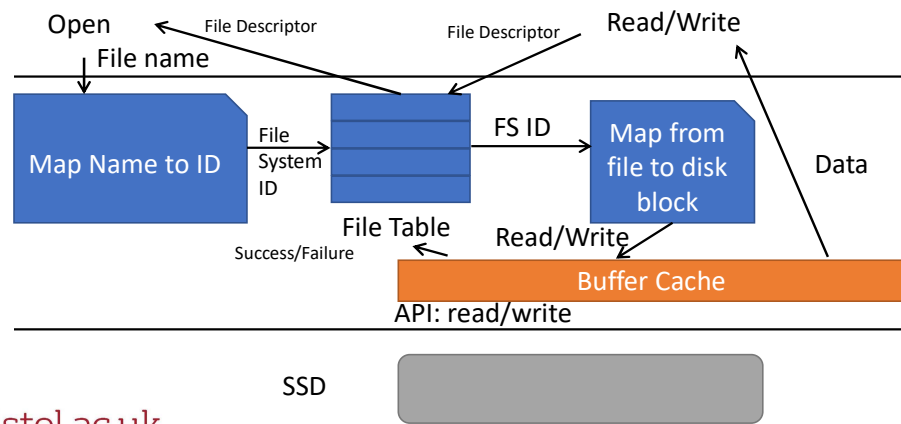
bristol.ac.uk

## From System Call API to disk



bristol.ac.uk

## From System Call API to disk



bristol.ac.uk

Thank you

[bristol.ac.uk](http://bristol.ac.uk)

