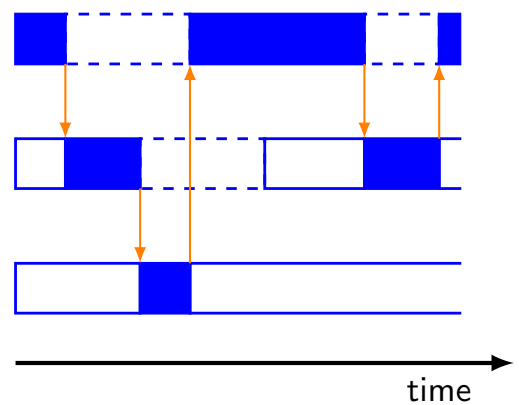# Course 02158
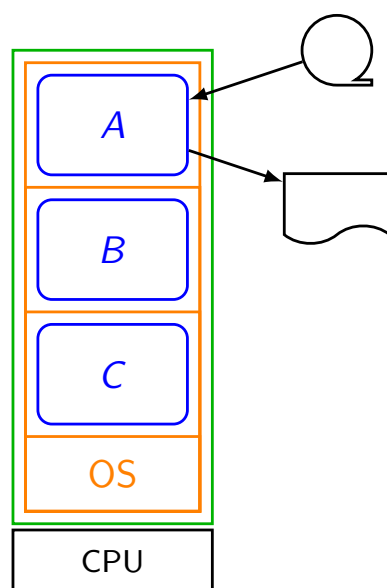# History of Concurrency

Hans Henrik Løvengreen
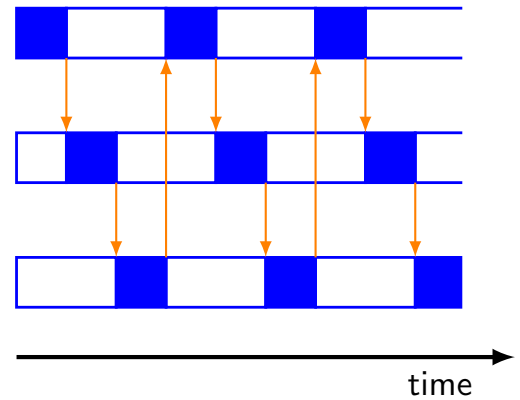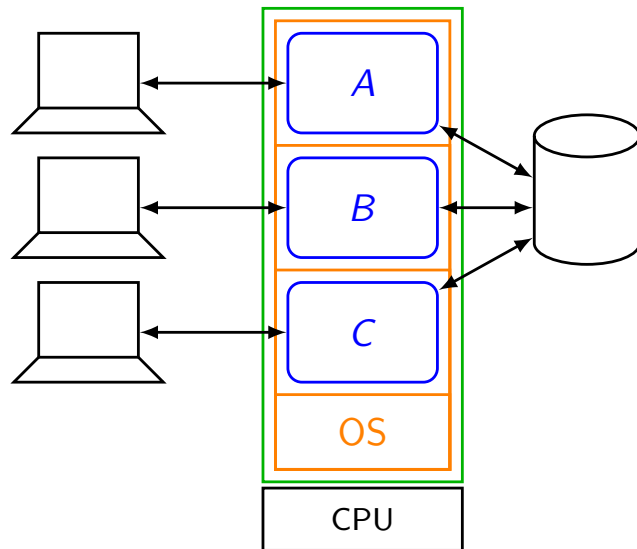
DTU Compute

History of Concurrency — 60's
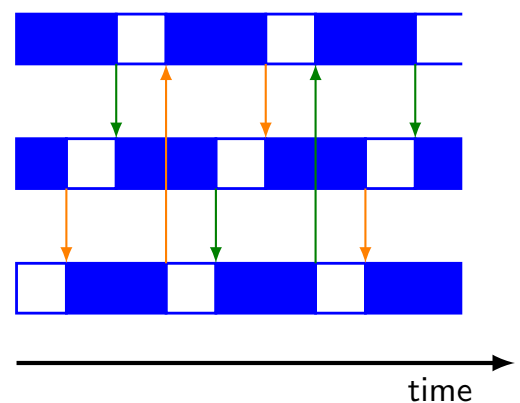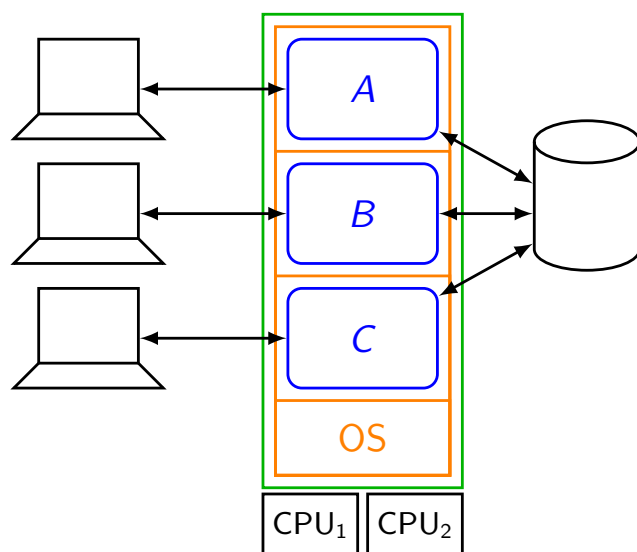

CPU

Multi-programming

time

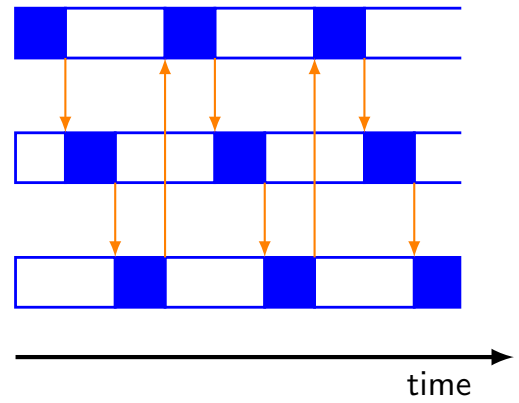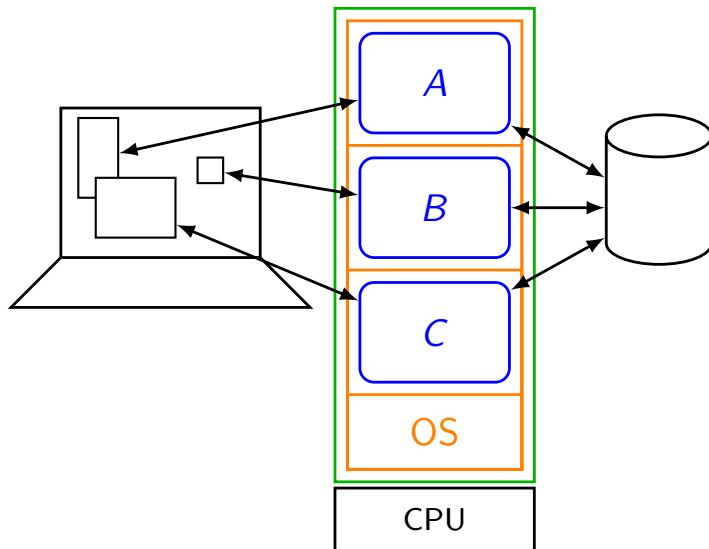# History of Concurrency — 70's

Time-sharing

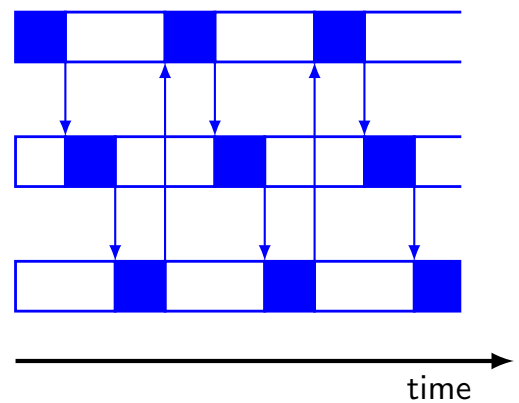# History of Concurrency — 80's (Big Data Centres)
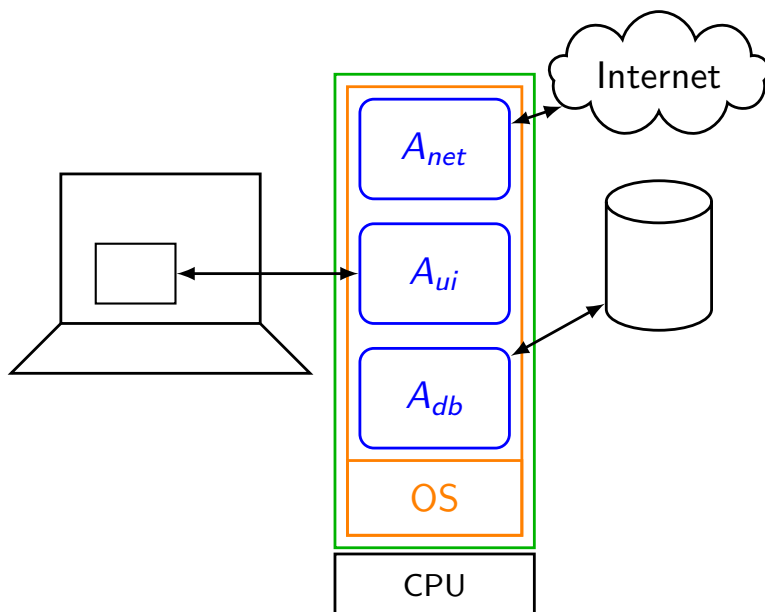

Multi-processing
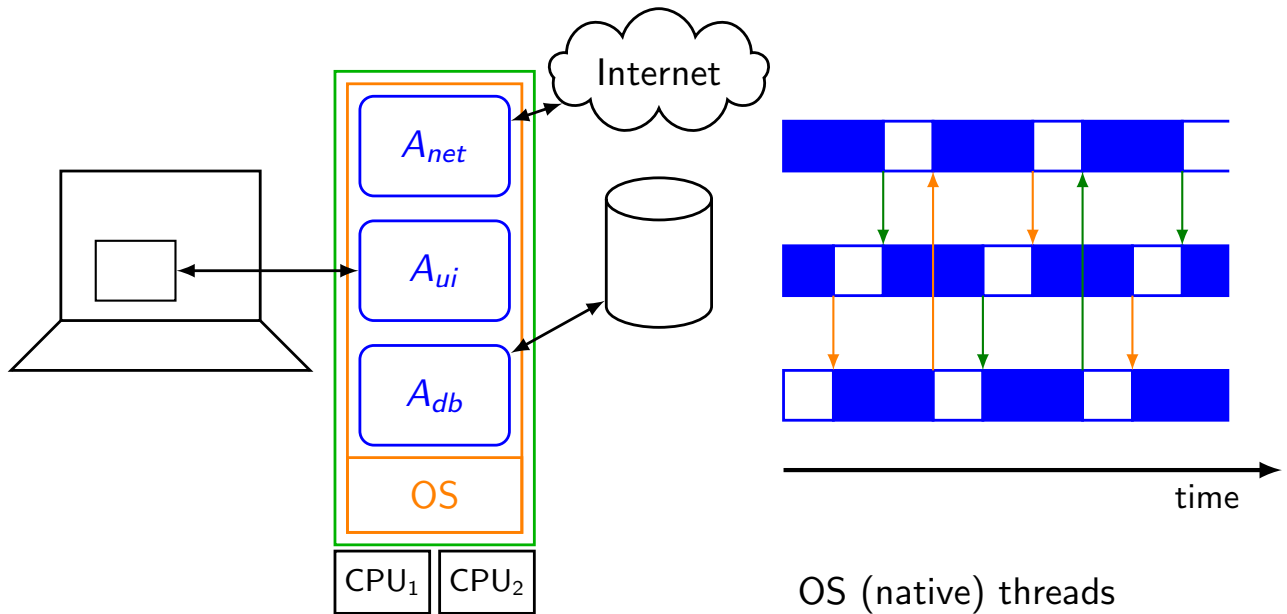
History of Concurrency — 80's

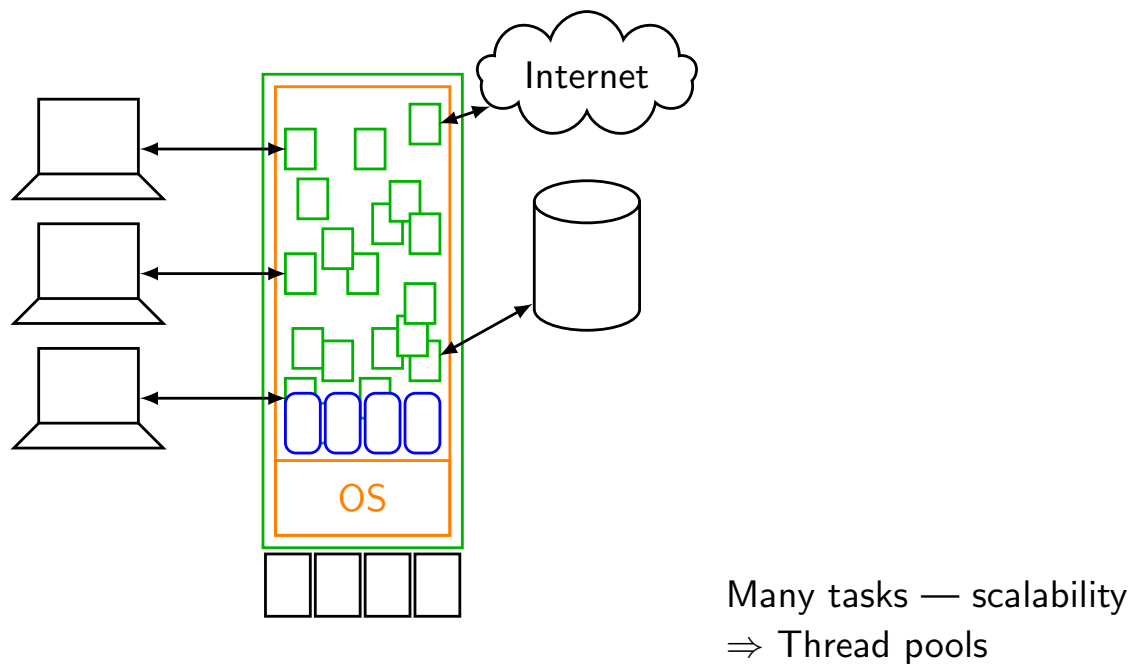Multi-tasking

History of Concurrency — 90's

User-space threads

History of Concurrency — 00's

Internet

A_{net}

A_{ui}

A_{db}

OS

CPU$_1$ CPU$_2$

time

OS (native) threads

History of Concurrency — 10's

Internet

OS

Many tasks — scalability
$\Rightarrow$ Thread pools

History of Concurrency — 20's ?

Internet

OS
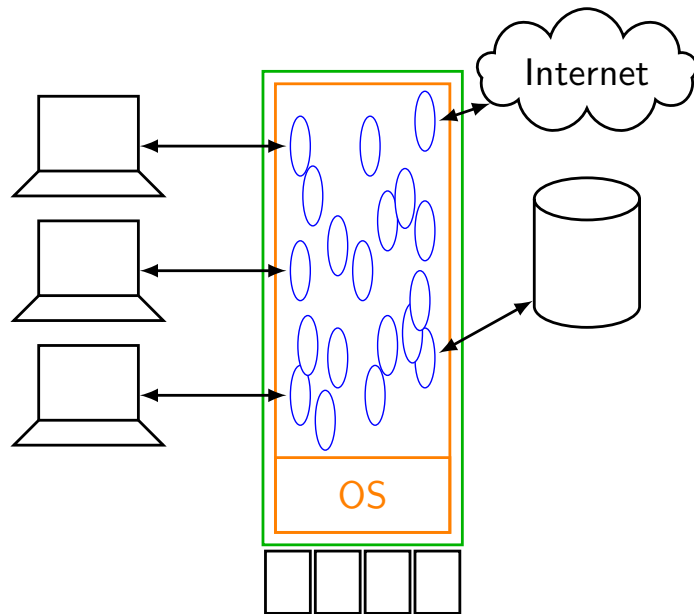
Lightweight concurrency