

# Paralleliza- tion Example

2024 Fall ECE 344: Operating Systems  
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Lecture 25  
2.0.0

## **We're Running a Bank Doing 10,000,000 Transfers**

We have a simulation that can create varying number of accounts

Each account has a unique ID, and a balance (starting with \$1 000)

We generate transfers between random accounts for 10% of their current balance

They must call `securely_connect_to_bank` before starting the transfer

## Coding Example

Done live! We'll have data races and deadlocks

Our goal is to be faster than 11 seconds

You can find the template in the examples repository

To compile it, run the following commands:

```
cd lectures/25-parallelization-example # if not already there
meson setup build
meson compile -C build
```

Run the program using: `./banksim <num_accounts>`