Compile-time Deadlock Detection in Rust using Petri Nets

Horacio Lisdero Scaffino

Facultad de Ingeniería Universidad de Buenos Aires

June 30, 2023



- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables

- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables



- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables

- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables

- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables



- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables

- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables

- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables

- 1 Introduction
 - Rust
 - Why Rust?
- 2 Translation
 - MIR
 - Modelling threads
 - Modelling mutexes
 - Modelling condition variables