Introduction to FIRRTL

Boyang Han

yqszxx@gmail.com

8/23/20

Contents

- What is FIRRTL
- Installation of FIRRTL Compiler
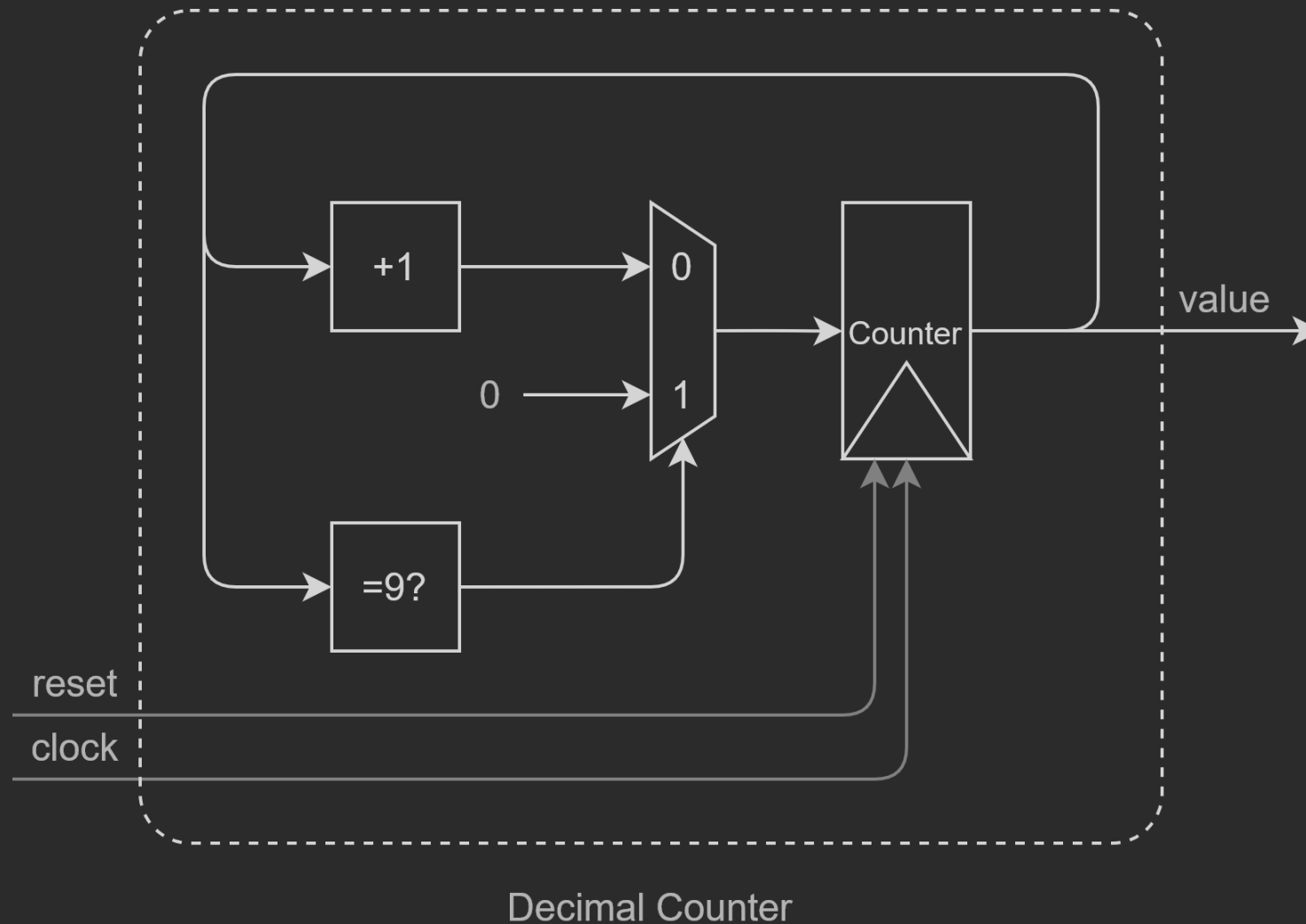- Write some FIRRTL

What is FIRRTL and why?

- Flexible Internal Representation for RTL

- Existing hardware description languages lack the expressivity to support hardware libraries
- Diverse underlying implementations require RTL customization, limiting reusability.

Installation of FIRRTL Compiler

- Install java & sbt
- Clone
- Use sbt to build

Learn by Doing

Decimal Counter

Q & A

Thanks!

Boyang Han

yqszxx@gmail.com