Translating PVS to C

SRI International

Gaspard Férey

Ecole Polytechnique

September 1st, 2014

Table of Contents

- Context
- Translating PVS
 - Architecture
 - Examples
- The update issue
 - Reference counting
 - Static analysis
 - Algorithm
- Conclusion
 - Demonstration

What is PVS?

3 / 14

Why translate PVS?

- To be able to execute PVS
 - Testing
 - Debugging
- To integrate PVS code into systems

Translation steps

A reference counting GC

Semantics

8 / 14

The flags

9 / 14

Algorithm

Conclusion

Questions?



Demonstration



Questions?

