Getting Started with Uclid5 Alpha release, version 0.9.5

Pramod Subramanyan and Sanjit A. Seshia $\{spramod, sseshia\}$ @eecs.berkeley.edu

June 2018

Contents

1	Syntax	3
2	Uclid5 Semantics	4

1 Syntax

A model consist of a list of modules. Each module consists of a list of declarations followed by an optional control block.

```
 \langle Module \rangle & ::= \langle Module \rangle^* \\ \langle Module \rangle & ::= module \langle Id \rangle \quad `\{' \langle Decl \rangle^* \langle ControlBlock \rangle? \ `\}' \\ \langle Decl \rangle & ::= \langle VarDecl \rangle^* \mid \langle NextDecl \rangle \\ \langle VarDecl \rangle & ::= var \langle Id \rangle \quad `:' \langle Type \rangle \quad `;' \\ \langle NextDecl \rangle & ::= next \quad `\{' \langle Stmt \rangle^* \, `\}' \\ \langle Stmt \rangle & ::= \langle Id \rangle \mid \langle Expr \rangle \quad `;' \\ \langle Expr \rangle & ::= \langle Id \rangle \mid \langle Expr \rangle \quad \bigcirc_b \langle Expr \rangle \mid \bigcirc_u \langle Expr \rangle \\ \end{aligned}
```

2 Uclid5 Semantics

Bibliography