QUIRKY

MODULE QUIRKY-SYNTAX

SYNTAX *AExp* ::= *Int*
| *Id*
| *AExp* *AExp* `/` [strict]
| *AExp* *AExp* `+` [strict]
| *AExp* *AExp* `-` [strict]
| *AExp* *AExp* `*` [strict]
| *AExp* *AExp* `%` [strict]
| (*AExp*) [bracket]

SYNTAX *BExp* ::= *Bool*
| *AExp* `<` *AExp* [seqstrict]
| *AExp* `>` *AExp* [seqstrict]
| *AExp* `<=` *AExp* [seqstrict]
| *AExp* `>=` *AExp* [seqstrict]
| `!` *BExp* [strict]
| *AExp* `eq` *AExp* [strict]
| *BExp* `and` *BExp* [strict(1)]
| (*BExp*) [bracket]

SYNTAX *Block* ::= {}
| {*Stmt*}

SYNTAX *Stmt* ::= *Block*
| *Id* `=` *AExp* `;` [strict(2)]
| `does` *BExp* *Block* `if_not` *Block* [strict(1)]
| `int` *Ids* `;`
| `dont_stop_if` (*BExp*)*Block*
| `function` ()*Block*
| `function` *Id*()*Block*
| *Stmt* *Stmt*

SYNTAX *Ids* ::= *List*{*Id*, ",", "} [strict]

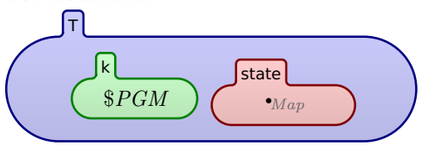
SYNTAX *AExps* ::= *List*{*AExp*, ",", "} [strict]

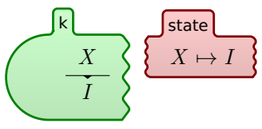
END MODULE

MODULE QUIRKY

SYNTAX *KResult* ::= *Int*
| *Bool*

CONFIGURATION:



RULE 

RULE $\frac{I1 \;\; I2 \;\texttt{/}}{I1 \div_{Int} I2}$ requires $I2 =/=_{Int} 0$

RULE $\frac{I1 \;\; I2 \;\texttt{+}}{I1 +_{Int} I2}$

RULE $\frac{I1 \;\; I2 \;\texttt{-}}{I1 -_{Int} I2}$

RULE $\frac{I1 \;\; I2 \;\texttt{*}}{I1 *_{Int} I2}$

RULE $\frac{I1 \;\; I2 \;\texttt{\%}}{I1 \%_{Int} I2}$

RULE $\frac{I1 \;\texttt{<}\; I2}{I1 <_{Int} I2}$

RULE $\frac{I1 \;\texttt{>}\; I2}{I1 >_{Int} I2}$

RULE $\frac{I1 \;\texttt{<=}\; I2}{I1 \leq_{Int} I2}$

RULE $\frac{I1 \;\texttt{>=}\; I2}{I1 \geq_{Int} I2}$

RULE $\frac{I1 \;\texttt{eq}\; I2}{I1 ==_{Int} I2}$

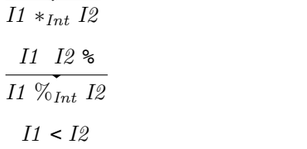
RULE $\frac{\texttt{!}\; T}{\neg_{Bool} T}$

RULE $\frac{\texttt{true and}\; B}{B}$

RULE $\frac{\texttt{false and}\; \_\_}{\texttt{false}}$

RULE $\frac{\{\}}{\bullet_K}$ [structural]

RULE $\frac{\{S\}}{S}$ [structural]

RULE 

RULE $\frac{S1 \;\; S2}{S1 \curvearrowright S2}$ [structural]

RULE $\frac{\texttt{does true}\; S \;\texttt{if\_not}\; \_\_}{S}$

RULE $\frac{\texttt{does false}\; \_\_ \;\texttt{if\_not}\; S}{S}$

RULE $\frac{\texttt{dont\_stop\_if}\; (B)S}{\texttt{does}\; (B)\;\; \{S \;\; \texttt{dont\_stop\_if}\; (B)S\}\;\texttt{if\_not}\; \{\}}$ [structural]

RULE  requires $\neg_{Bool}(X \texttt{ in keys } (\rho))$

RULE $\frac{\texttt{int}\; \bullet_{Ids}\; \texttt{;}}{\bullet_K}$ [structural]

END MODULE