

THEORY BBSL**TYPE PARAMETERS** Act, Var **DATA TYPES** $\text{BBSL}(\text{Act}, \text{Var})$ **constructors** $\text{Cons_BBSL}(\text{actions} : \mathbb{P}(\text{Act}), \text{variables} : \mathbb{P}(\text{Var}), \text{hyp} : \mathbb{P}(\text{Var}), \text{bbslcase} : \mathbb{P}(\text{Var} \times \text{Act}))$ **OPERATORS****ActionsWellCons** *predicate* ($\text{bbsl} : \text{BBSL}(\text{Act}, \text{Var})$)**direct definition** $\text{ran}(\text{bbslcase}(\text{bbsl})) \subseteq \text{actions}(\text{bbsl})$ **VarWellCons** *predicate* ($\text{bbsl} : \text{BBSL}(\text{Act}, \text{Var})$)**direct definition** $\text{dom}(\text{bbslcase}(\text{bbsl})) \subseteq \text{variables}(\text{bbsl}) \wedge \text{hyp}(\text{bbsl}) \subseteq \text{variables}(\text{bbsl})$ **BBSLWellCons** *predicate* ($\text{bbsl} : \text{BBSL}(\text{Act}, \text{Var})$)**direct definition** $\text{ActionsWellCons}(\text{bbsl}) \wedge \text{VarWellCons}(\text{bbsl})$ **NotHypCase** *expression* ($\text{bbsl} : \text{BBSL}(\text{Act}, \text{Var})$)**direct definition** $((\text{Var} \cap \text{variables}(\text{bbsl})) \setminus \text{hyp}(\text{bbsl})) \times \text{actions}(\text{bbsl})$ **THEOREMS***thm1* : $\forall \text{bbsl} \cdot \text{bbsl} \in \text{BBSL}(\text{Act}, \text{Var}) \Rightarrow \text{NotHypCase}(\text{bbsl}) \in \text{Var} \leftrightarrow \text{Act}$ **END**