1 ———————————— MODULE *Datatype* ————————————

Common datatypes

Constants

9 CONSTANTS $State$, $InitState$ a set of states, and

10 ASSUME $InitStateAxiom \triangleq InitState \in State$ the designated initial state.

11 $NULL \triangleq$ CHOOSE $x : x \notin$ BOOLEAN

13 $TotalFunc(S1, S2) \triangleq [S1 \rightarrow S2 \setminus \{\{\}\}]$ a set of total function from $S1$ to $S2$

14 $Operation \triangleq TotalFunc(State, \text{SUBSET } State)$

15 $TX \triangleq [f : Operation]$ a transaction. note that "f" is just a label

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