— MODULE OneBitClock

VARIABLE clock

The state predicate *Init* is true if the value of clock is either 0 or 1.

$$Init \stackrel{\triangle}{=} clock \in \{0, 1\}$$

The next-state relation Tick sets clock (the value of clock in the next state) to 1 if clock is 0, and 0 if clock is 1.

$$Tick \stackrel{\Delta}{=} \text{ if } clock = 0 \text{ then } clock' = 1 \text{ else } clock' = 0$$

$$1 \to 0 \to 1 \to 0 \to 1 \to \dots$$

$$Spec \triangleq Init \wedge \Box [Tick]_{\langle clock \rangle}$$

- \ * Last modified Sun Apr 21 10:19:30 PDT 2019 by jasondebolt
- \ * Created Sun Apr 21 09:37:13 PDT 2019 by jasondebolt