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— MODULE Alternation
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EXTENDS Sequences
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```
\begin{array}{ll} Put(s) \; \stackrel{\Delta}{=} \; Append(s, \; \text{``widget''}) \\ Get(s) \; \stackrel{\Delta}{=} \; Tail(s) \end{array}
```

BEGIN TRANSLATION

VARIABLES b, box

$$vars \triangleq \langle b, box \rangle$$

$$ProcSet \triangleq \{0\} \cup \{1\}$$

$$\begin{array}{ll} Init \; \stackrel{\triangle}{=} \; \; | \text{Global variables} \\ \wedge \; b = 0 \\ \wedge \; box = \langle \rangle \end{array}$$

$$\begin{array}{rcl} Producer & \triangleq & \land b = 0 \\ & \land box' = Put(box) \\ & \land b' = 1 \end{array}$$

Consumer
$$\triangleq \land b = 1$$

 $\land box' = Get(box)$
 $\land b' = 0$

 $Next \stackrel{\triangle}{=} Producer \lor Consumer$

 $\begin{array}{ccc} Spec & \triangleq & \wedge \: Init \land \Box [Next]_{vars} \\ & \wedge \: \mathrm{WF}_{vars}(Producer) \end{array}$

END TRANSLATION

- * Modification History * Last modified $Thu\ Jun\ 05\ 09:38:27\ CST\ 2014$ by yaojingguo * Created $Wed\ Jun\ 04\ 18:06:04\ CST\ 2014$ by yaojingguo