```
- MODULE Channel -
```

EXTENDS Integers

CONSTANT Data VARIABLE chan

 $TypeInvariant \stackrel{\triangle}{=} chan \in [val: Data, rdy: \{0, 1\}, ack: \{0, 1\}]$

 $\begin{array}{rcl} Init & \triangleq & \land TypeInvariant \\ & \land chan.ack = chan.rdy \end{array}$

 $\begin{array}{ccc} Rcv & \stackrel{\triangle}{=} & \land chan.rdy \neq chan.ack \\ & \land chan' = [chan \ \ \text{EXCEPT} \ \ !.ack = 1 - @] \end{array}$

 $Next \stackrel{\Delta}{=} (\exists d \in Data : Send(d)) \lor Rcv$

 $Spec \stackrel{\triangle}{=} Init \wedge \Box [Next]_{chan}$

Theorem $Spec \Rightarrow \Box TypeInvariant$

 $[\]backslash * \ {\it Modification History}$

^{*} Last modified Fri Feb 02 10:36:35 CET 2018 by jordy

^{*} Created Fri Feb 02 10:13:28 CET 2018 by jordy