

Answer

Use the same INSTANCE statement and definition of *chBar* as in module *BoundedChannel*, and have TLC check the temporal property $C!Spec$. TLC reports that an action property at a certain location of module *BoundedChannel* is violated. Clicking on that location reveals the property to be $\Box[Next]_{var}$, indicating that a step of *FGBBuf* does not implement a legal step of *BChan*. Using the Trace Explorer reveals the problem to be that a *p2* action changes *in*, but leaves *chBar* unchanged—the change to *chBar* being effected by the subsequent *p3* action.

[CLOSE](#)