MODULE $AB2H$

EXTENDS $Integers$, $Sequences$

CONSTANTS $Data$, Bad
ASSUME $Bad \notin (Data \times \{0, 1\}) \cup \{0, 1\}$

VARIABLES $AVar$, $BVar$, $AtoB2$, $BtoA2$

$AB2 \triangleq$ INSTANCE $AB2$

VARIABLES $AtoB$, $BtoA$

RECURSIVE $RemoveBad(\_)$
$RemoveBad(seq) \triangleq$
IF $seq = \langle\rangle$
THEN $\langle\rangle$
ELSE IF $Head(seq) = Bad$
THEN $RemoveBad(Tail(seq))$
ELSE $\langle Head(seq)\rangle \circ RemoveBad(Tail(seq))$

$SpecH \triangleq \land AB2!Spec$
$\land \Box \land AtoB = RemoveBad(AtoB2)$
$\land BtoA = RemoveBad(BtoA2)$

$AB \triangleq$ INSTANCE AB
THEOREM $SpecH \Rightarrow AB!Spec$

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