

# Synthesized solution for benchmark 05thttpdEr.c

```

solution
├─ (Complete), cond  $a_6$ : keepalive <= 0
│   └─  $\left\{ \begin{array}{l} \text{Case } a_6 : \\ k_1 = (b_8 \cdot (a_6 \cdot S_5 + \neg a_6 \cdot 1) + \neg b_8 \cdot U_7) \\ k_2 = (b_{18} \cdot L_{16} \cdot S_{15} + \neg b_{18} \cdot U_{17}) \end{array} \right.$ 
│       └─ AComplete
│           └─  $\left\{ \begin{array}{l} \text{Axioms} : \{I = 1\} \\ k_1 = (b_8 \cdot 1 \cdot S_5 + \neg b_8 \cdot U_7) \\ k_2 = (b_{18} \cdot I_{20} \cdot S_{15} + \neg b_{18} \cdot U_{17}) \end{array} \right.$ 
│           └─  $\left\{ \begin{array}{l} \text{Case } \neg a_6 : \\ k_1 = (b_8 \cdot (a_6 \cdot S_5 + \neg a_6 \cdot 1) + \neg b_8 \cdot U_7) \\ k_2 = (b_{18} \cdot L_{16} \cdot S_{15} + \neg b_{18} \cdot U_{17}) \end{array} \right.$ 
│               └─ (Complete), cond  $b_{18}$ : err > 0
│                   └─  $\left\{ \begin{array}{l} \text{Case } \neg b_{18} : \\ k_1 = (b_8 \cdot 1 \cdot 1 + \neg b_8 \cdot U_7) \\ k_2 = (b_{18} \cdot I_{21} \cdot S_{15} + \neg b_{18} \cdot U_{17}) \end{array} \right.$ 
│                       └─ (Complete), cond  $b_8$ : err > 0
│                           └─  $\left\{ \begin{array}{l} \text{Case } \neg b_8 : \\ k_1 = (b_8 \cdot 1 \cdot 1 + \neg b_8 \cdot U_7) \\ k_2 = 1 \cdot U_{17} \end{array} \right.$ 
│                               └─ AComplete
│                                   └─  $\left\{ \begin{array}{l} \text{Axioms} : \{I = 1\} \\ k_1 = 1 \cdot U_7 \\ k_2 = 1 \cdot U_{17} \end{array} \right.$ 

```

*Remaining 3 solutions omitted for brevity.*