Synthesized solution for benchmark Olasendrecv.c

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solution
                 \_ (Partial), cond b_{11}: b > 0
                                                         \begin{cases} k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot (b_{11} \cdot C_{10} \cdot S_9 \cdot 1 + \neg b_{11} \cdot 1) \cdot X_8) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{27} \cdot (b_{26} \cdot K_{24} \cdot (c_{23} \cdot C_{22} \cdot B_{21} + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I_{29}) \cdot X_{20}) * \neg a_{19} \end{cases}
                                                         \square (Partial), cond b_{26}: b > 0
                                                                                 Case b_{26}:
                                                                                                             \begin{cases} c_{36} & c_{26} \\ k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot C_{10} \cdot J_{30} \cdot 1 \cdot X_8) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{27} \cdot (b_{26} \cdot K_{24} \cdot (c_{23} \cdot C_{22} \cdot B_{21} + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I_{29}) \cdot X_{20}) * \neg a_{19} \end{cases}
                                                                                                              \square (Partial), cond c_{23}: auth > 0
                                                                                                                                                   ( Case\ c_{23}:
                                                                                                                                                                                k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot 1 \cdot C_{10} \cdot J_{30} \cdot 1 \cdot X_8) * \neg a_7 
k_2 = (a_{19} \cdot E_{27} \cdot 1 \cdot M_{31} \cdot (c_{23} \cdot C_{22} \cdot B_{21} + \neg c_{23} \cdot 1) \cdot X_{20}) * \neg a_{19}
                                                                                                                                                                              _ AComplete
                                                                                                                                                                                      \begin{cases} Axioms: \{I=1, J=1, M=1, P=1\} \\ k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot C_{10} \cdot J_{30} \cdot 1 \cdot X_8) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{27} \cdot 1 \cdot M_{31} \cdot 1 \cdot C_{22} \cdot P_{32} \cdot X_{20}) * \neg a_{19} \end{cases} 
                                                                           Case \ \neg b_{11}:
                                                          \begin{cases} a_1 \cdot a_
                                                                         _(Partial), cond c_{23}: auth > 0
                                                                                                                               Case\ c_{23}:
                                                                                                                             \begin{array}{l} k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot X_8) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{27} \cdot (b_{26} \cdot J_{45} \cdot (c_{23} \cdot C_{22} \cdot B_{21} + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I_{29}) \cdot X_{20}) * \neg a_{19} \end{array}
                                                                                                             \square (Partial), cond b_{26}: b > 0
                                                                                                                                                                                 \left\{ \begin{array}{l} Axioms: \{I=1, J=1\} \\ k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot X_8) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{27} \cdot 1 \cdot I_{29} \cdot X_{20}) * \neg a_{19} \end{array} \right. 
                                                                                                                               k_1 = (a_7 \cdot E_{12} \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot X_8) * \neg a_7
                                                                                                                               k_2 = (a_{19} \cdot E_{27} \cdot (b_{26} \cdot J_{45} \cdot (c_{23} \cdot C_{22} \cdot B_{21} + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I_{29}) \cdot X_{20}) * \neg a_{19}
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Remaining 37 solutions ommitted for brevity.