Synthesized solution for benchmark Olasendrecv.c

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solution
         _ (Partial), cond b_{11}: b > 0
                                     k_1 = (a_7 \cdot E_{b = recv()}; \cdot 1 \cdot 1 \cdot (b_{11} \cdot C_{n = constructReply()}; \cdot S() = send(n); \cdot 1 + \neg b_{11} \cdot 1) \cdot X_{x = x - i,?} \quad 1;) * \neg a_7 
k_2 = (a_{19} \cdot E_{b = recv()}; \cdot (b_{26} \cdot K_{auth = check(b)}; \cdot (c_{23} \cdot C_{n = constructReply()}; \cdot B() = sendA(n); + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I() = log(b);) \cdot X_{x = x - i,?} \quad 1;) * \neg a_{19}
                                                       \begin{cases} case \ u_{26} \\ k_{1} = (a_{7} \cdot E_{b} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot C_{n} = \text{constructReply}(); \cdot J() = \text{send}(n); \cdot 1 \cdot X_{x} = x - 1,? \quad 1; ) * \neg a_{7} \\ k_{2} = (a_{19} \cdot E_{b} = \text{recv}(); \cdot (b_{26} \cdot K_{auth} = \text{check}(b); \cdot (c_{23} \cdot C_{n} = \text{constructReply}(); \cdot B() = \text{sendA}(n); + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I() = \log(b); ) \cdot X_{x} = x - 1,? \quad 1; ) * \neg a_{19} \end{cases}
                                                                  (Partial), cond c_{23}: auth > 0
                                                                                          k_1 = (a_7 \cdot E_b = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot C_n = \text{constructReply}(); \cdot J() = \text{send(n)}; \cdot 1 \cdot X_x = x - i,? \quad 1;) * \neg a_7 
 k_2 = (a_{19} \cdot E_b = \text{recv}(); \cdot 1 \cdot M_{\text{auth}} = \text{check(b)}; \cdot (c_{23} \cdot C_n = \text{constructReply}(); \cdot B() = \text{sendA(n)}; + \neg c_{23} \cdot 1) \cdot X_x = x - i,? \quad 1;) * \neg a_{19} 
                                                                                                                  \begin{aligned} &Axioms: \{I = 1, J = 1, M = 1, P = 1\} \\ &k_1 = (a_7 \cdot E_{\text{b = recv()}}; \cdot 1 \cdot 1 \cdot 1 \cdot C_{\text{n = constructReply()}}; \cdot J_{\text{()}} = \text{send(n)}; \cdot 1 \cdot X_{\text{x = x --i,? 1;}}) * \neg a_7 \\ &k_2 = (a_{19} \cdot E_{\text{b = recv()}}; \cdot 1 \cdot M_{\text{auth = check(b)}}; \cdot 1 \cdot C_{\text{n = constructReply()}}; \cdot P_{\text{()}} = \text{sendA(n)}; \cdot X_{\text{x = x --i,? 1;}}) * \neg a_{19} \end{aligned}
                                     Case \neg b_{11}:
                                     k_1 = (a_7 \cdot E_b = \text{recv}(); \cdot 1 \cdot 1 \cdot (b_{11} \cdot C_n = \text{constructReply}(); \cdot S() = \text{send(n)}; \cdot 1 + \neg b_{11} \cdot 1) \cdot X_x = x - \bot; ? 1;) * \neg a_7
k_2 = (a_{19} \cdot E_b = \text{recv}(); \cdot (b_{26} \cdot K_{\text{auth}} = \text{check(b)}; \cdot (c_{23} \cdot C_n = \text{constructReply}(); \cdot B() = \text{sendA(n)}; + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I() = \log(b);) \cdot X_x = x - \bot; ? 1;) * \neg a_{19}
                                                       \begin{cases} \begin{array}{l} Case \ c_{23}: \\ k_1 = (a_7 \cdot E_{\mathbf{b}} = \mathsf{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot X_{\mathbf{x}} = \mathsf{x} - \mathbf{i},? \quad 1;) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{\mathbf{b}} = \mathsf{recv}(); \cdot (b_{26} \cdot J_{\mathsf{auth}} = \mathsf{check}(\mathbf{b}); \cdot (c_{23} \cdot C_{\mathbf{n}} = \mathsf{constructReply}(); \cdot B() = \mathsf{sendA(n)}; + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I() = \log(\mathbf{b}); ) \cdot X_{\mathbf{x}} = \mathsf{x} - \mathbf{i},? \quad 1;) * \neg a_{19} \end{cases} 
                                                                              \begin{cases} Case \neg b_{26}: \\ k_1 = (a_7 \cdot E_{\mathsf{b}} = \mathsf{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot X_{\mathsf{x}} = \mathsf{x} - \mathsf{i}; ? \ 1;) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{\mathsf{b}} = \mathsf{recv}(); \cdot (b_{26} \cdot J_{\mathsf{auth}} = \mathsf{check}(\mathsf{b}); \cdot 1 \cdot C_{\mathsf{n}} = \mathsf{constructReply}(); \cdot B() = \mathsf{sendA}(\mathsf{n}); + \neg b_{26} \cdot I() = \mathsf{log}(\mathsf{b}); ) \cdot X_{\mathsf{x}} = \mathsf{x} - \mathsf{i}; ? \ 1;) * \neg a_{19} \end{cases}
                                                                                            \begin{cases} Axioms: \{I=1, J=1\} \\ k_1 = (a_7 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad \mathbf{1};) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot I() = \log(\mathbf{b}); \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad \mathbf{1};) * \neg a_{19} \end{cases} 
                                                              Case \neg c_{23}:

k_1 = (a_7 \cdot E_b = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot X_x = x - i,? 1;) * \neg a_7

k_2 = (a_{19} \cdot E_b = \text{recv}(); \cdot (b_{26} \cdot J_{\text{auth}} = \text{check}(b); \cdot (c_{23} \cdot C_n = \text{constructReply}(); \cdot B() = \text{sendA}(n); + \neg c_{23} \cdot 1) + \neg b_{26} \cdot I() = \log(b); \cdot X_x = x - i,? 1;) * \neg a_{19}
                                                                   \begin{cases} Axioms: \{I = 1, J = 1\} \\ k_1 = (a_7 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot 1 \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_7 \\ k_2 = (a_{19} \cdot E_{\mathbf{b}} = \text{recv}(); \cdot (b_{26} \cdot J_{\text{auth}} = \text{check}(\mathbf{b}); \cdot 1 \cdot 1 + \neg b_{26} \cdot I_{()} = \log(\mathbf{b}); \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{19} \end{cases}
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Remaining 37 solutions ommitted for brevity.