Synthesized solution for benchmark Olasendrecv.c

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solution
                  _ (Partial), cond b_{11}: b > 0
                                                                             k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot (b_{\mathbf{b}} > 0 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot S() = \text{send}(\mathbf{n}); \cdot 1 + \neg b_{\mathbf{b}} > 0 \cdot 1) \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}; \cdot 1; \cdot 1 \cdot (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \mathbf{recv}(); \cdot (b_{\mathbf{b}} > 0 \cdot K_{\mathbf{auth}} = \mathbf{check}(\mathbf{b}); \cdot (a_{\mathbf{uth}} > 0 \cdot C_{\mathbf{n}} = \mathbf{constructReply}(); \cdot B() = \mathbf{sendA}(\mathbf{n}); + \neg a_{\mathbf{uth}} > 0 \cdot 1) + \neg b_{\mathbf{b}} > 0 \cdot I() = \log(\mathbf{b}); \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}; \cdot 1; \cdot 1 \cdot (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \mathbf{recv}(); 
                                                                                                                             k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot J() = \text{send}(\mathbf{n}); \cdot 1 \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1; ) * \neg a_{\mathbf{x}} > 0
k_2 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot (b_{\mathbf{b}} > 0 \cdot K_{\mathbf{auth}} = \text{check}(\mathbf{b}); \cdot (c_{\mathbf{auth}} > 0 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot B() = \text{sendA}(\mathbf{n}); + \neg c_{\mathbf{auth}} > 0 \cdot I() = \log(\mathbf{b}); ) \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1; ) * \neg a_{\mathbf{x}} > 0
                                                                                                                                      (Partial), cond c_{23}: auth > 0
                                                                                                                                                                                   k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot \overset{J}{}() = \text{send}(\mathbf{n}); \cdot 1 \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i},? \quad 1; ) * \neg a_{\mathbf{x}} > 0
k_2 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot M_{\text{auth}} = \text{check}(\mathbf{b}); \cdot (c_{\text{auth}} > 0 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot \overset{B}{}() = \text{sendA}(\mathbf{n}); + \neg c_{\text{auth}} > 0 \cdot 1) \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i},? \quad 1; ) * \neg a_{\mathbf{x}} > 0
                                                                                                                                                                                                                                     \begin{array}{l} Axioms: \{I=1, J=1, M=1, P=1\} \\ k_1 = (a_{\tt X} > 0 \cdot E_{\tt b} = {\tt recv}(); \cdot^{1} \cdot 1 \cdot 1 \cdot C_{\tt n} = {\tt constructReply}(); \cdot^{J}() = {\tt send}(\tt n); \cdot^{1} \cdot X_{\tt X} = \tt x - i,? \ 1;) * \neg a_{\tt X} > 0 \\ k_2 = (a_{\tt X} > 0 \cdot E_{\tt b} = {\tt recv}(); \cdot^{1} \cdot M_{\tt auth} = {\tt check}(\tt b); \cdot^{1} \cdot C_{\tt n} = {\tt constructReply}(); \cdot^{P}() = {\tt sendA}(\tt n); \cdot^{X}_{\tt X} = \tt x - i,? \ 1;) * \neg a_{\tt X} > 0 \\ \end{array} 
                                                                            Case \neg b_{11}:
                                                                             k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot (b_{\mathbf{b}} > 0 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot S() = \text{send}(\mathbf{n}); \cdot 1 + \neg b_{\mathbf{b}} > 0 \cdot 1) \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}; \cdot 1; \cdot 1 \cdot (b_{\mathbf{b}} > 0 \cdot I_{\mathbf{b}} 
                                                                                                            \begin{cases} Case \ c_{23}: \\ k_1 = (a_{\mathbf{x}} > 0 \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_{\mathbf{x}} > 0 \\ k_2 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot (b_{\mathbf{b}} > 0 \cdot J_{\text{auth}} = \text{check}(b); \cdot (c_{\text{auth}} > 0 \cdot C_{\mathbf{n}} = \text{constructReply}(); \cdot B() = \text{sendA(n)}; + \neg c_{\text{auth}} > 0 \cdot I() = \log(b); ) \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \end{cases}
                                                                                                                                                     -\begin{cases} Case \neg b_{26}: \\ k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \operatorname{recv}(); \cdot^{1} \cdot^{1} \cdot^{1} \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \\ k_2 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \operatorname{recv}(); \cdot (b_{\mathbf{b}} > 0 \cdot J_{\text{auth}} = \operatorname{check}(b); \cdot^{1} \cdot C_{\mathbf{n}} = \operatorname{constructReply}(); \cdot^{B}() = \operatorname{sendA}(\mathbf{n}); + \neg b_{\mathbf{b}} > 0 \cdot^{I}() = \log(b); ) \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \end{cases}
                                                                                                                                                                                          \begin{cases} Axioms: \{I = 1, J = 1\} \\ k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \\ k_2 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot I() = \log(\mathbf{b}); \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \end{cases} 
                                                                                                                              \begin{cases} Axioms: \{I = 1, J = 1\} \\ k_1 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot 1 \cdot 1 \cdot 1 \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \\ k_2 = (a_{\mathbf{x}} > 0 \cdot E_{\mathbf{b}} = \text{recv}(); \cdot (b_{\mathbf{b}} > 0 \cdot J_{\text{auth}} = \text{check(b)}; \cdot 1 \cdot 1 + \neg b_{\mathbf{b}} > 0 \cdot I() = \log(\mathbf{b}); \cdot X_{\mathbf{x}} = \mathbf{x} - \mathbf{i}, ? \quad 1;) * \neg a_{\mathbf{x}} > 0 \end{cases}
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Remaining 37 solutions ommitted for brevity.