Synthesized solution for benchmark O3buffer.c

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 \begin{array}{c} \text{solution} \\ & & = & \begin{pmatrix} Casea_6: \\ k_1 = M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot (a_6 \cdot G_{13} \cdot (c_{12} \cdot B_7 + \neg c_{12} \cdot (b_{11} \cdot B_8 + \neg b_{11} \cdot W_{33} \cdot O_{34}))) * \neg a_6 \\ k_2 = & N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot B_{22}))) * \neg a_{19} \\ & = & A\texttt{Complete} \\ & & = & \begin{pmatrix} Axioms: \{M = 1, N = 1, Y = L, W = 1, O = 1, P = 1\} \\ k_1 = & M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot 1 \cdot (a_6 \cdot G_{13} \cdot (c_{12} \cdot B_7 + \neg c_{12} \cdot (b_{11} \cdot B_8 + \neg b_{11} \cdot W_{33} \cdot O_{34}))) * \neg a_6 \\ k_2 = & N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot P_{35}))) * \neg a_{19} \\ & = & \begin{pmatrix} Case \neg a_6: \\ k_1 = & M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot (a_6 \cdot G_{13} \cdot (c_{12} \cdot B_7 + \neg c_{12} \cdot (b_{11} \cdot B_8 + \neg b_{11} \cdot W_{33} \cdot O_{34}))) * \neg a_6 \\ k_2 = & N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot B_{22}))) * \neg a_{19} \\ & = & \begin{pmatrix} Case \neg a_{19}: \\ k_1 = & M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot 0.0 \\ k_2 = & N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot (a_{19} \cdot G_{25} \cdot (c_{24} \cdot B_{20} + \neg c_{24} \cdot (b_{23} \cdot B_{21} + \neg b_{23} \cdot B_{22}))) * \neg a_{19} \\ & & Acomplete \\ & = & \begin{pmatrix} Axioms: \{M = 1, N = 1, Y = L, W = 1, O = 1\} \\ k_1 = & M_{31} \cdot Y_{16} \cdot C_{15} \cdot K_{14} \cdot 0.0 \\ k_2 = & N_{32} \cdot L_{28} \cdot C_{27} \cdot K_{26} \cdot 0.0 \\ \end{pmatrix} \end{cases}
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Remaining 190 solutions ommitted for brevity.