

Abbreviations
$\sim M_7 = MP_ID$
$\sim M_8 = h(\text{con}(MP_PW, MP_N_1))$
$\sim M_9 = MP_C1$
$\sim M_10 = MP_C2$
$\sim M_11 = MP_C3$
$\sim M_12 = MP_R1$
$\sim M_13 = MP_R2$
$\sim M_14 = MP_R3$
$\sim M_15 = MP_BIO$
$\sim M_16 = MP_ID$
$\sim M_17 = h(\text{con}(\text{con}(\text{xor}(a_3, h(\text{con}(MP_PW, MP_N_1))), MP_N_1), MP_R1))$
$\sim M_18 = \text{xor}(\text{xor}(h(\text{con}(a_2, h(\text{con}(MP_PW, MP_N_1))))), h(\text{con}(\text{con}(\text{xor}(a_3, h(\text{con}(MP_PW, MP_N_1))), MP_N_1), MP_R1))), MP_R1)$
$\sim M_19 = MP_C1$
$\sim M_20 = T1_2$
$\sim X_1 = (\text{xor}(h(\text{con}(\text{xor}(\sim M_17, \text{xor}(h(\text{con}(a_2, \sim M_8)), \sim M_17)), \sim M_13)), a_2), a_5, a_6)$ $= (\text{xor}(h(\text{con}(\text{xor}(h(\text{con}(\text{con}(\text{xor}(a_3, h(\text{con}(MP_PW, MP_N_1))), MP_N_1), MP_R1)), \text{xor}(h(\text{con}(a_2, h(\text{con}(MP_PW, MP_N_1))))), h(\text{con}(\text{con}(\text{xor}(a_3, h(\text{con}(MP_PW, MP_N_1))), MP_N_1), MP_R1)))), MP_R2)), a_2), a_5, a_6)$

A trace has been found.

