

Abbreviations
$\sim M = \text{xor}(\text{xor}(\text{km}, \text{kw}), \text{r1\_3})$
$\sim M\_1 = \text{xor}(\text{disjunction}(\text{ID\_m}, \text{ID\_w}), \text{r2\_3})$
$\sim M\_2 = \text{concat}(\text{xor}(\text{kw}, \text{rot}(\text{xor}(\text{km}, \text{concat}(\text{r2\_3}, \text{km})))), \text{xor}(\text{km}, \text{rot}(\text{xor}(\text{kw}, \text{concat}(\text{r1\_3}, \text{kw}))))))$
$\sim M\_3 = \text{h}(\text{btAddr\_3})$

A trace has been found.

