

# Report DummyForce

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## 1 Attack

We implemented the DummyForce attack that attacks 6 rounds of the cipher TC01 with  $2^{23}$  computation and  $2^{15}$  memory using 2 plaintext ciphertext pairs.

## 2 Optimizations/Datastructures

We used a dummyarray (see: dummyarray.c) and we used a different representation of the SBox to increase the speed. This gave us roughly a 30% speedup w.r.t. the reference implementation.

## 3 Building the program

Run make in the folder (see the Makefile for more information).

## 4 Problems

We encountered no problems.

## 5 Extra

We can use the same attack to attack up to 8 rounds with less than  $2^{40}$  time and  $2^{15}$  memory.