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EECS 349

Due 10-29-2019

Homework 3: Part 1

Question 2 Writeup

The algorithm used appears to perform XOR operations with the input name to output a corresponding serial number. The input serial number is then directly compared with the output from the XOR operation. The name appears to be converted to its equivalent hex value and a sum is calculated from the hex values. The sum of the hex representation of the name is then XOR'd with 5678h to get a value of 22437. The resulting value is then XOR'd with 1234h to get the serial number of 17809. The computed serial number is then compared with the input serial number to check that they are equal.

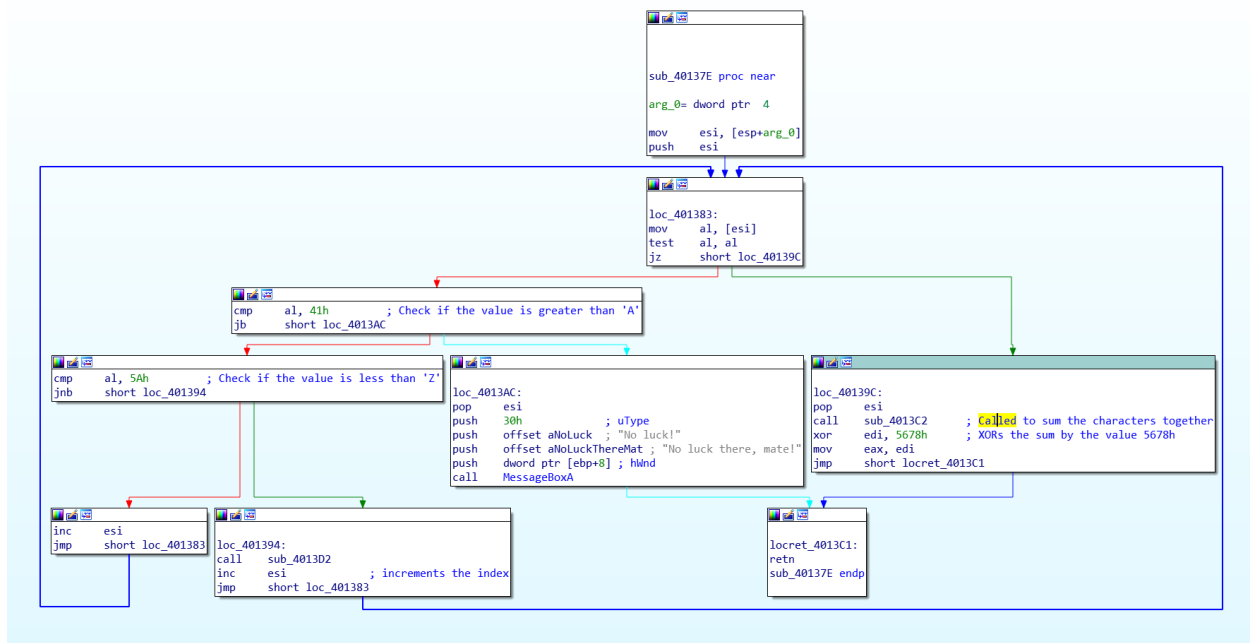


Figure 1: function used to sum the characters and perform the first XOR operation (5678h)

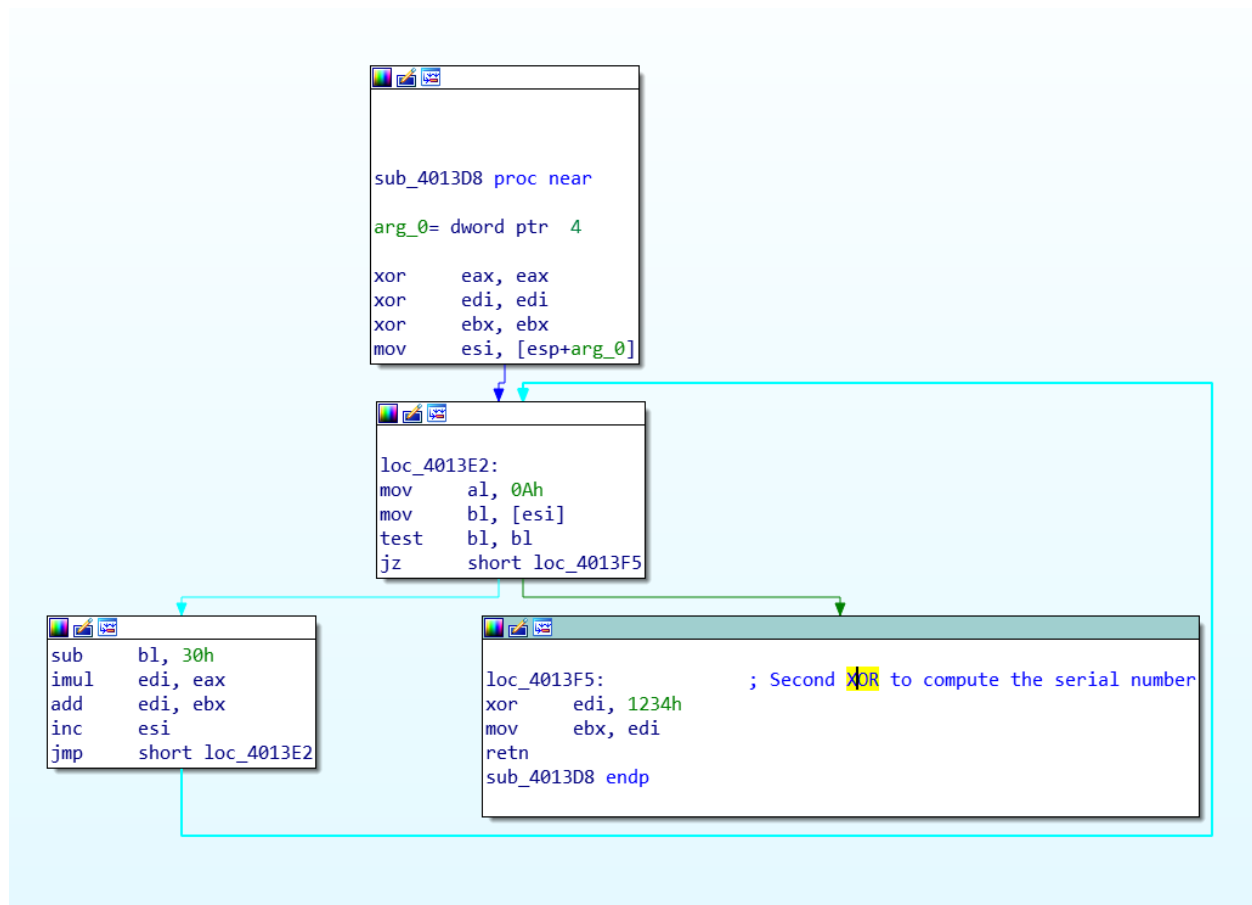


Figure 2: Second function used to perform the second XOR operation (1234h)