

# **CSCD 439 - Final Project**

## **Salted MD5 Password Cracking using NVidia GPUs**

**Team:** Abdullah Almutairi, Kevin Chumbley, Michael Peterson

### **Summary**

For our project we will be analyzing a GPU accelerated password cracker program that can be found at <https://defuse.ca/gpucrack.htm>. The program uses CUDA to crack MD5 hashes at a rate of 60 Million hashes per second (with an NVidia GeForce GTX 260M).

### **Goals**

- Understand how the code works
- Collect speed data for various configurations
- Optimize the program to achieve more MD5 hashes per second.
- Compare GPU code performance with a CPU equivalent.