Anaiss: An Apple iPhone Passcode Dedicated Brute force Cracking Device

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Research Plan

Purpose of the Study

General

1. To develop a dedicated brute force cracking device that specifically targets Apple iPhone smartphone passcode with operating systems iOS 6 up to iOS 8.

Specific

1. To ensure the effectiveness of the experimental device in accomplishing its purpose as per design and plan.

2. To construct a brute forcing hardware that not only accomplishes its task, but also does its task with the most possible efficiency and speed.

3. To compare the experimental hardware against its existing comparators and alike software as well.

Null Hypothesis

1. The experimental brute forcing device is not capable of accomplishing its purpose as per design and plan.

2. The experimental hardware is not efficient and fast.

3. The experimental hardware is not comparable against its existing comparators and alike software as well.

Materials and Equipment

The materials that will be used in this study are the Intel Galileo Board, a micro SD Card (for storage), a personal computer (for programming; specification to be determined), Arduino IDE software (for programming of Intel Galileo board), GNU Linux operating system (distro yet to be determined). Kindly add other materials that could be used for the study here.

Procedure

1. Preparation of Materials (Hardware and Software)

2. Installation of IDEs and Operating Systems

3. Construction and Development of Software (Brute forcing software)

4. Integration of the Software to the Intel Galileo Board

5. Testing of the Brute force cracking platform

6. Data Gathering for Existing Comparators (Hardware and Software)

7. Data Analysis

8. Statistical Treatment