Evaluating the Strength of AES
(Project Option #1)

Project Description

Your task is to evaluate the strength of the AES encryption algorithm. For example, measure its avalanche effect. It is entirely up to you to decide which (one or more) of the various criteria to apply. Try to be rigorous in the design of the evaluation process, in particular the test cases. Your project will be graded according to the quality of results achieved and the amount of work involved.

You may reuse free or open source software implementation of the AES encryption algorithm.

Useful Links

These links are provided for your convenience. You should always try to make sure that a downloaded program is safe to execute before actually executing it.

- The AES Lounge:
  http://www.iaik.tugraz.at/content/research/krypto/AES/

- A tutorial on AES with implementation in C:
  http://www.progressive-coding.com/tutorial.php?id=0

- AES Animation: http://www.formaestudio.com/rijndaelinspector/