

Testing - Rypto

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Preface

"Tietorakenteet ja algoritmit" – exercise.

Rypto is a software, which can encrypt and decrypt.

Testing arrangements

Unit testing is done with CUnit framework and gradle.

High-level tests are implemented with a shell script.

Test cases

AES_makeword

The makeword test case is: 0x01, 0x02, 0x03, 0x04 → 0x01020304.

AES_KeySchedule

The three KeySchedule test cases were obtained from Sam Trenholme's web site <http://www.samiam.org/key-schedule.html> .

Selected test cases were the following:

- A key with all bits zero.
- A key with all bits one.
- A key with all bytes different.

How to repeat tests

Test results