



# Benchmarking of Java Cryptoalgorithms

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GRIN Verlag. Paperback. Condition: New. 52 pages. Dimensions: 8.1in. x 5.8in. x 0.2in. Seminar paper from the year 2008 in the subject Computer Science - Commercial Information Technology, grade: 1. 3, University of Regensburg, language: English, abstract: Cryptographic algorithms have nowadays serious impact on many fields of modern life. A good example is the SSL technology, that consists of both symmetric as well as asymmetric cryptography. It is used in thousands of websites like online banking websites to secure transferred data. For the developers of such applications the performance of employing cryptography may be a crucial factor to the success of the complete product. Normally a software developer utilizes cryptographic operations by the usage of precast cryptographic libraries. Therefore, it is interesting to analyze the speed of cryptographic libraries which implement abstract cryptographic algorithms. In the following, we describe our benchmarking of various cryptoalgorithms in different cryptolibraries in different languages on a 32-bit system. In the first part, we outline our preparatory work and our considerations on setting up a fitting benchmarking environment. With this test environment we conducted the benchmarking of seven JAVA cryptolibraries, namely SUN-JCE, Flexiprovider, Bouncy Castle, Cryptix Crypto, IAIK-JCE, GNU crypto and RSA JSafe. Additionally, we benchmarked...



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