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Analysis Attacks of Modular Exponentiation in Smartcards*

## ~~Power analysis - Wikipedia~~

We now discuss the power analysis attacks. We will cover both simple power analysis and differential power analysis. In simple power analysis, the attacker attempts to visually exam, the system's current or power waves forms. Do, during execution, your ordered to discovery information about the data operation.

## ~~Power Analysis Attacks - Revealing The~~

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the first comprehensive treatment of power analysis attacks and countermeasures. Based on the principle that the only way to defend against power analysis attacks is to understand them, this book explains how power analysis attacks work.

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The goal of SPA attacks is to reveal the key when given only a small number of power traces (for a small number of plaintexts). In the most extreme case, this means that the attacker attempts to reveal the key based on one single power trace. In order to distinguish between the extreme and the normal SPA

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Power Analysis Attacks: Revealing the Secrets of Smart Cards. Power analysis attacks allow the extraction of secret information from smart cards. Smart cards are used in many applications including banking, mobile communications, pay TV, and

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electronic signatures. In all these applications, the security of the smart cards is of crucial importance.

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The analysis of the clicking sound may, hopefully, reveal the secret lock combination. This book deals with a specific kind of

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side channel attack used to extract secret information from a cryptosystem using an appropriate analysis of its power consumption.

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Differential power analysis (DPA) is a side-channel attack which involves statistically analyzing power consumption measurements from a cryptosystem. The attack exploits biases varying power consumption of microprocessors or other

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hardware while performing operations using secret keys.

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3 Partially supported by NSF Grant CCR-9800070 Power Analysis Attacks of Modular Exponentiation in Smartcards Thomas S. Messerges<sup>1</sup>, Ezzy A. Dabbish<sup>1</sup>, Robert H. Sloan<sup>2,3</sup> <sup>1</sup>Motorola Labs, Motorola 1301 E. Algonquin Road, Room 2712, Schaumburg, IL 60193 {tomas, dabbish}@ccrl.mot.com

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