Cache Attack on AES for Android Smartphone\*

Bo Li

School of Computer Science and Engineering   
Beihang Univeristy  
Beijing, China  
(+86)82338059

1st author's E-mail address

Bo Jiang†

School of Computer Science and Engineering   
Beihang Univeristy  
Beijing, China  
(+86)82338059

jiangbo@buaa.edu.cn

**ABSTRACT**

In this paper, we describe the formatting guidelines for ACM SIG Proceedings.

**CCS Concepts**

• **Information systems➝Database management system engines**   • **Computing methodologies➝Massively parallel and high-performance simulations.**This is just an example, please use the correct category and subject descriptors for your submission*.* The ACM Computing Classification Scheme:

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**Keywords**

Keywords are your own designated keywords separated by semicolons (“;”).

# INTRODUCTION

写出背景，android 手机上cache attack的挑战，以及基本的思路。挑战要指出单次执行不用ks的问题。The proceedings are the records of the conference. ACM hopes to give these conference by-products a single, high-quality appearance. To do this, we ask that authors follow some simple guidelines. In essence, we ask you to make your paper look exactly like this document. The easiest way to do this is simply to download a template from [2], and replace the content with your own material.

# Background

## Determining the Best Eviction Strategy

如何确定最佳驱逐策略。Please use a 9-point Times Roman font, or other Roman font with serifs, as close as possible in appearance to Times Roman in which these guidelines have been set. The goal is to have a 9-point text, as you see here. Please use sans-serif or non-proportional fonts only for special purposes, such as distinguishing source code text. If Times Roman is not available, try the font named Computer Modern Roman. On a Macintosh, use the font named Times. Right margins should be justified, not ragged.

## The Prime Probe Strategy

Prime-probe攻击策略。The title (Helvetica 18-point bold), authors' names (Helvetica 12-point) and affiliations (Helvetica 10-point) run across the full width of the page – one column wide. We also recommend phone number (Helvetica 10-point) and e-mail address (Helvetica 12-point). See the top of this page for three addresses. If only one address is needed, center all address text. For two addresses, use two centered tabs, and so on. For more than three authors, you may have to improvise.

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# Attacking AES Algorithms

## The First Round Attack

\* This research is supported in part by NSFC (project no. 61772056), the Research Fund of the MIIT of China (project no. MJ-Y-2012-07), and the research fund of the State Key Laboratory of Virtual Reality Technology and Systems.

† Correspondence author

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## The Second Round Attack

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## The K-S statistical Test

描述如何进行KS检验。

## Performance Optimization

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Table . Table captions should be placed above the table

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| --- | --- | --- | --- |
| **Graphics** | **Top** | **In-between** | **Bottom** |
| Tables | End | Last | First |
| Figures | Good | Similar | Very well |

# Experimental Study

用一个例子说明攻击的详细过程，说明攻击成功。

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# Related Work

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Place Tables/Figures/Images in text as close to the reference as possible (see Figure 1). It may extend across both columns to a maximum width of 17.78 cm (7”).

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# Conclusion

结论。

The heading of a section should be in Times New Roman 12-point bold in all-capitals flush left with an additional 6-points of white space above the section head. Sections and subsequent sub- sections should be numbered and flush left. For a section head and a subsection head together (such as Section 3 and subsection 3.1), use no additional space above the subsection head.



Figure 1. Insert caption to place caption below figure.

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# ACKNOWLEDGMENTS

Our thanks to ACM SIGCHI for allowing us to modify templates they had developed.

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| Your Name | Position\* | Email | Research Field | Personal website |
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| Bo Jiang | Associate Professor | gongbell@gmail.com | Mobile testing and security | http://jiangbo.buaa.edu.cn |

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