

High Performance Embedded Computing Lab Beijing Institute of Technology

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Education

2011-Present M.S. Candidate in Computer Science, **Beijing Institute of Technology**

Research focous: Computer Architecture Evaluation | Advisor: Weixing JI

2007-2011 B.S. in Computer Science, Yanshan University

3rd University Scholarship, 2009

GPA: 3.0/4

Academia

Weixing Ji, **Yi Liu**, Yuanhong Huo, Yizhuo Wang, and Feng Shi: Extracting Threaded Traces in Simulation Environments [C]. 10th IFIP International Conference on Network and Parallel Computing (NPC 2013), Springer (EI indexed)

Current

Yong Yang Tech Co.Ltd , Beijing

2013.4

LBE One-key Root Toolkit Samsung Special Verison

Yong Yang Tech Co.Ltd is the owner of $\mbox{\bf LBE Security}$, a well known android security application.

LBE One-key Root Toolkit Samsung Special Version is their important product on PC, which helps normal user root their samsung device by several clicks. This toolkit is now on beta, and has 4,000 usage per day and up to 86% of all is success.(July, 2013)

I am the only developer and maintainer in this project and implements most part of the project.

- Android Superuser management and improvement (Linux system programming & Android app development)
- An automatic firmware root maker system.(Shell & Python)
- A specific website crawler (Python & Shell)
- refactor and extend original one-key root toolkit (QT & lua)

Current Aug 2012

Beijing Institute of Technology, Beijing Instruction Trace Simularity Computing Tool

- Developed and maintained trace similarity computing tool on Linux.
- Applied edit distantance approach to analysing program trace.
- Implemented multithread version using pthread

Gem5 Based Multithreading Program Trace Collector

- Did a research in depth on gem5 simulator and accomplished the task by myself.
- Modified and added extension for gem5 simulator to collect instruction trace of multithreading program running on it.

Pin Based Hybrid Cache/SPM Performance Simulator

- Developed a hybrid cache/spm simulator using pin as its backend.
- It can be configured by different spm size with I1, I2 level cache size to inspect optimal combination.

Mar-Aug 2012

Internship at China Software Testing Center, Beijing Android Binder Communication Intercepting

- Applied Linux runtime library injection and function redirection techniques on Android platform using Linux C and ASM.
- Implemented intercepting Android binder IPC after a deep research on Android internal.

Android Sms/Phonecall Filter Product Prototype

Mar-June 2011 | Yanshan University, Qinhuangdao Bachelor's graduation design

• Designed and developed a XMPP IM client in Java using Eclipse SWT Framework and Smack library.

Languages

Chinese: Native

English: CET6 525/710 Good for reading and listening.

Development Skills

Programming Language: C, Java, Python, Bash

Programming Tools: Emacs, Eclipse Development Platform: Linux, Android

Interests and Activities

- Archlinux Wiki Chinese Translation Volunteer
- Reading, Blogging