

Yi LIU

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 focus: Computer Architecture Evaluation | Advisor: Weixing Ji
- 2007-2011 B.S. in Computer Science, **Yanshan University**
3rd University Scholarship, 2009
GPA: 3.0/4

Experience

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| Current
Feb 2013 | <p>Open Source Project, Beijing</p> <p><i>Linux Personal Config Files Backup & Restore Tool</i></p> <p>Solo author of this tool. This project is under development aiming to ease the pain of deploying new linux system and backup staff. This program is written in linux shell script and taking the advantage of github.</p> |
| Current
Aug 2012 | <p>Beijing Institute of Technology, Beijing</p> <p><i>Instruction Trace Similarity Computing Tool</i></p> <ul style="list-style-type: none">• Developed and maintained trace similarity computing tool on Linux.• Applied edit distance approach to analysing program trace.• Implemented multithread version using pthread <p><i>Gem5 Based Multithreading Program Trace Collector</i></p> <ul style="list-style-type: none">• 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. <p><i>Pin Based Hybrid Cache/SPM Performance Simulator</i></p> <ul style="list-style-type: none">• Developed a hybrid cache/spm simulator using pin as its backend.• It can be configured by different spm size with L1, L2 level cache size to inspect optimal combination. |
| Mar-Aug 2012 | <p>Internship at China Software Testing Center, Beijing</p> <p><i>Android Binder Communication Intercepting</i></p> <ul style="list-style-type: none">• 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. <p><i>Android Sms/Phonecall Filter Product Prototype</i></p> |

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