Egor Tensin

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Experience

April 2012 – May 2014	*Performance Engineer* at EMC Corp. (russia.emc.com)

I developed and maintained a tool for revealing, analyzing and solving storage system performance issues caused by process & thread synchronization issues. The tool was used to improve storage system series performance by a few percent.

I also troubleshooted performance issues within enterprise storage systems, including profiling, benchmarking, reporting performance statistics, etc.

Key skills & technologies employed:

- C++ programming (inc. C++11, STL & Boost),
- C & x86(-64) assembly language programming,
- cross-platform development using CMake,
- Microsoft Windows programming using WinAPI,
- POSIX-compliant system programming,
- Microsoft Windows & Linux kernel module programming,
- debugging Microsoft Windows kernel modules using WinDbg,
- profiling using perf, Microsoft Windows Performance Toolkit and Intel VTune Amplifier.

May 2012 – September 2013	*Software Engineer* at Lanit-Tercom, Inc. (www.lanit-tercom.ru)

I took part in a R&D on the impact intoduced to storage system performance by process & thread synchronization issues. A prototype of a tool for revealing, analyzing and solving storage system performance issues was developed.

Key skills & technologies employed or studied:

- C & x86(-64) assembly language programming,
- Python programming,
- Microsoft Windows programming using WinAPI,
- Microsoft Windows kernel module programming,
- debugging Microsoft Windows kernel modules using WinDbg,
- x86(-64) architecture (interrupts, caches, memory barriers, atomic operations, etc.),
- undocumented Microsoft Windows features (system service dispatching, etc.).

Education

2009 – 2013	*Bachelor of Computer Science* at SPbSU (eng.spbu.ru)

During my education, I've been focusing on the following topics:

- x86(-64) architecture (including writing a term paper "Verification of a x86-64 disassembler"),

- x86(-64) microarchitecture (including working on my bachelor thesis "Attacking AES in a cloud using CPU caches").

Languages

- Russian — mother tongue.
- English — B2 (upper intermediate).

Programming Languages

- C, x86(-64) assembly
- C++ (inc. C++11, Boost & STL)
- Python
- bash, cmd

Development Tools & Technologies

- Microsoft Visual Studio
- AccuRev, Git, SVN
- GDB, WinDbg
- perf, Xperf, Intel VTune Amplifier

Other Tools & Technologies

- LibreOffice, Microsoft Office
- CygWin
- LaTeX