

Nadav Amit

PERSONAL DETAILS

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EMPLOYMENT HISTORY

Technion—Israel Institute of Technology, Haifa, Israel

■ Senior Lecturer

Oct 2023 –

- Teaching Introduction to Systems Programming (2340124).
- Teaching Advanced Topics in Performance Optimization (2360013).
- Teaching Seminar in Operating Systems (2360005).
- Teaching Computer Structure (2360267).
- Researching memory management, performance optimizations and virtualization.

VMware Research Group, Palo Alto, CA, USA

■ Senior Researcher

Jan 2016 – Sep 2023

- Improved Linux kernel TLB flushing: speeding up TLB shutdown, identifying and fixing multiple security vulnerabilities and correctness issues.
- Developed and implemented novel paravirtualization mechanism in which the host executes verifiable guest code (eBPF) to provide advanced services and for better resource utilization.
- Adapted kvm-unit-tests to test VMware hypervisor and bare metal systems. Found dozen of VMware bugs, Intel SDM mistake and upstreamed 40+ patches for kvm-unit-tests.
- Other research projects: userspace memory manager; alleviating Spectre and Meltdown overheads; syscall failure analyzer.
- Additional responsibilities: Linux memory ballooning maintainer, tests development, product teams consulting.
- Focus: virtualization, operating systems, memory management.

Technion—Israel Institute of Technology, Haifa, Israel

■ Senior Research Associate

Aug 2014 – Dec 2015

- Projects: hypervisors security and stability, efficient memory management.
- Focus: hypervisors, memory management.

■ Teaching Assistant

Mar 2009 – Jul 2014

- Tutoring "Database Management Systems", "Parallel and Distributed Programming" and "Digital Computer Architecture".

IBM Research Center, Haifa, Israel

■ Research Intern

Jul 2009 – Oct 2009

- Projects: Intel IOMMU emulation, direct delivery of interrupts.
- Focus: hypervisors, I/O.

Intel Cooperation, Haifa, Israel

■ Software Engineer

Jul 2002 – Dec 2006

- Building fuzzing tools to test Intel CPUs, debugging of CPU bugs.
- Focus: virtualization, power management, thermal monitoring and sleep-states.

FELLOWSHIPS, AWARDS AND HONORS

- Best Paper Award, for "DeepErr: Automatic Root-Cause Analysis of System Call Failures", *ACM SYSTOR* 2025
- Influential Paper Award, for "ELI: Bare-Metal Performance for I/O Virtualization", *ACM ASPLOS* 2024

	■ Distinguished Artifact Award, for "Copy-on-Pin: The Missing Piece for Correct Copy-on-Write", <i>ACM ASPLOS</i> 2023 ■ Best Paper Award, for "Don't Shoot Down TLB Shootdowns!", <i>EuroSys</i> 2020 ■ Best Paper Award, for "The Design and Implementation of Hyperupcalls", <i>USENIX ATC</i> 2018 ■ Dennis M. Ritchie Doctoral Dissertation Honorable Mention, <i>ACM SIGOPS</i> 2015 ■ Google Security Patch Reward 2015 ■ SPEC Distinguished Dissertation Award, <i>SPEC Research Group</i> 2014 ■ HiPEAC Award, for "VSWAPPER: a Memory Swapper for Virtualized Environments", <i>HiPEAC</i> 2014 ■ IBM PhD fellowship Award, <i>IBM</i> 2012 ■ HiPEAC Award, for "ELI: Bare-Metal Performance for I/O Virtualization", <i>HiPEAC</i> 2012 ■ Pat Goldberg Memorial Best Paper Award, for "ELI: Bare-Metal Performance for I/O Virtualization", <i>IBM</i> 2012
RESEARCH FUNDING	■ ISF Personal Grant #3310/25 (2025-2030): "Multi-Tier Memory Revolution: New Approaches in OS Design" - 1.2M NIS total 2025 ■ IBM Research Grant: "Performance Analysis of LLMs" - 120K NIS total 2025
EDUCATION	Technion — Israel Institute of Technology, Haifa, Israel ■ Ph.D. in Computer Science Mar 2009 – Jul 2014 • Thesis: Alleviating Virtualization Bottlenecks • Advisers: Prof. Assaf Schuster and Prof. Dan Tsafir • Focus: Virtualization, operating systems, performance. ■ B.Sc. in Computer Science Oct 2000 – Aug 2004 • Graduated Cum Laude.
OTHER ACTIVITY	■ Program committee member • ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) (Vice-Chair) 2027 • ACM Symposium on Operating Systems Principles (SOSP) 2026 • ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) 2026 • ACM International Systems and Storage Conference (SYSTOR) 2026 • IEEE International Symposium on High-Performance Computer Architecture (HPCA) 2026 • IEEE/ACM International Symposium on Computer Architecture (ISCA) 2025 • ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) 2025 • ACM International Systems and Storage Conference (SYSTOR) 2025 • ACM International Systems and Storage Conference (SYSTOR) 2024 • Operating Systems Design and Implementation (OSDI) 2024 • ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) 2024 • ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) 2023 • ACM Virtual Execution Environments (VEE) 2022 • ACM International Systems and Storage Conference (SYSTOR) 2022 • Operating Systems Design and Implementation (OSDI) 2021 • ACM International Systems and Storage Conference (SYSTOR) 2020 • ACM Virtual Execution Environments (VEE) 2020 • ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) 2019 • USENIX Annual Technical Conference (ATC) 2019 • ACM Symposium on Cloud Computing (SoCC) 2018

- ACM International Systems and Storage Conference (SYSTOR) 2018
- ACM Workshop on Systems for Multi-core and Heterogeneous Architectures (SFMA) 2018
- ACM International Systems and Storage Conference (SYSTOR) 2017
- ACM Virtual Execution Environments (VEE) 2017
- USENIX Annual Technical Conference (ATC) 2017
- World Wide Web Conference (WWW) 2017
- External Reviewer
 - ACM Transactions on Computer Systems (TOCS) 2023, 2025
 - IEEE Transactions on Cloud Computing (TCC) 2023
 - ACM Architectural Sup. for Programming Languages & Operating Systems (ASPLOS) 2018
 - IEEE Computer Architecture Letters (CAL) 2013, 2016, 2018
 - EuroSys Conference 2015
 - ACM Virtual Execution Environments (VEE) 2014
 - IEEE Transactions on Computers (TOC) 2014
 - ACM International Conference on Supercomputing (ICS) 2012
 - USENIX Annual Technical Conference (ATC) 2011
- Reported Security Vulnerabilities
 - CVE-2021-4002: Missing TLB flush on hugetlbfs
 - CVE-2018-15594: Linux vulnerability to Spectre-v2 under KVM & Xen
 - CVE-2015-0239: KVM hypervisor SYSENTER emulation vulnerability
 - CVE-2014-3610: KVM hypervisor WRMSR emulation vulnerability
 - CVE-2014-3647: KVM hypervisor RIP changing emulation vulnerability
 - CVE-2014-7842: KVM hypervisor emulation failure vulnerability
 - CVE-2014-8480: KVM hypervisor NULL dereference vulnerability
 - CVE-2014-8481: KVM hypervisor NULL dereference vulnerability
- Open Source Contributions
 - KVM-unit-tests support for bare-metal and VMware (~60 patches) 2017–2023
 - VMware balloon driver for Linux (~30 patches) 2017–2023
 - Linux TLB flushing performance improvements (~20 patches) 2020–2022
 - Linux userfaultfd enhancements (~10 patches) 2022
 - Linux self-modifying code security enhancements (~10 patches) 2019
 - KVM virtualization correctness issues (~140 patches) 2014
 - QEMU emulator
 - LLVM compiler (BPF backend)
 - FreeBSD (IOMMU)
- Academic Advising (MSc)
 - Barr Israel (Technion),
“A Shared User-Space Page Cache” 2025–present
 - George Nasser (Technion) 2025–present
 - Omer Sassoni (Technion) 2025–present
 - Gal Dvir (Technion),
“Eliminating Virtual Address Synonyms for Virtual Caches”
co-advising with Prof. Yoav Etsion 2025–present
 - Shahak Morag (Technion) 2024–present
 - Avidan Borisov (Technion, completed),
“Improving Virtualized Network Throughput With Lazy Kicks”
co-advising with Prof. Dan Tsafir 2023–2025

- Niv Kaminer (Technion, completed), 2021–2025
“Reducing the Latency Caused by Dynamic Huge Page Management”
co-advising with Prof. Dan Tsafir
- Gil Kupfer (Technion, completed), 2016–2018
“IOMMU-resistant DMA attacks,”
co-advising with Prof. Dan Tsafir

PUBLICATIONS CONFERENCES

- [C-29] Nadav Amit, “Enabling Huge Pages for Real-World Executables,” in *ACM SIGPLAN International Symposium on Memory Management (ISMM)*, 2026. (acceptance rate: 82%).
- [C-28] Nadav Amit, Michael Wei, “DeepErr: Automatic Root-Cause Analysis of System Call Failures,” in *ACM International Systems and Storage Conference (SYSTOR)*, 2025. **Received Best Paper Award.** (acceptance rate: 37%).
- [C-27] Avidan Borisov, Nadav Amit, Dan Tsafir, “Batching with End-to-End Performance Estimation,” in *ACM Workshop in Hot Topics in Operating Systems (HOTOS)*, 2025. (acceptance rate: 21%).
- [C-26] Anil Yelam, Stewart Grant, Saarth Deshpande, Nadav Amit, Radhika Niranjana Mysore, Amy Ousterhout, Marcos K. Aguilera, Alex C. Snoeren, “Eden: Developer-Friendly Application-Integrated Far Memory,” in *USENIX Symposium on Networked Systems Design and Implementation (NSDI)*, 2025. (acceptance rate: 12%).
- [C-25] David Hildenbrand, Martin Schulz, Nadav Amit, “Every Mapping Counts in Large Amounts: Folio Accounting,” in *USENIX Annual Technical Conference (ATC)*, 2024. (acceptance rate: 16%).
- [C-24] Mathé Hertogh, Manuel Wiesinger, Sebastian Österlund, Marius Muench, Nadav Amit, Herbert Bos, Cristiano Giuffrida, “Quarantine: Mitigating Transient Execution Attacks with Physical Domain Isolation,” in *International Symposium on Research in Attacks, Intrusions, and Defenses (RAID)*, 2023. (acceptance rate: 23%).
- [C-23] David Hildenbrand, Martin Schulz, Nadav Amit, “Copy-on-Pin: The Missing Piece for Correct Copy-on-Write,” in *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, 2023. **Received Distinguished Artifact Award.** (acceptance rate: 25%).
- [C-22] Nadav Amit, Michael Wei, Dan Tsafir, “Dealing with (Some of) the Fallout from Meltdown,” in *ACM International Systems and Storage Conference (SYSTOR)*, 2021. (acceptance rate: 21%).
- [C-21] Alex Markuze, Shay Vargaftik, Gil Kupfer, Boris Pismenny, Nadav Amit, Adam Morrison, Dan Tsafir, “Understanding DMA Attacks in the Presence of an IOMMU,” in *European Conference on Computer Systems (EuroSys)*, 2021. (acceptance rate: 21%).
- [C-20] Nadav Amit, Amy Tai, Michael Wei, “Don’t Shoot Down TLB Shootdowns!,” in *European Conference on Computer Systems (EuroSys)*, 2020. **Received Best Paper Award.** (acceptance rate: 18%).
- [C-19] Eitan Rosenfeld, Aviad Zuck, Nadav Amit, Michael Factor, Dan Tsafir, “RAIDP: Replication with Intra-Disk Parity for Cost-Effective Storage of Warm Data,” in *European Conference on Computer Systems (EuroSys)*, 2020. (acceptance rate: 19%).
- [C-18] Nadav Amit, Michael Wei, “JumpSwitches: Restoring the Performance of Indirect Branches in the era of Spectre,” in *USENIX Annual Technical Conference (ATC)*, 2019. (acceptance rate: 20%).

- [C-17] Elazar Gershuni, Nadav Amit, Arie Gurfinkel, Nina Narodytska, Jorge A Navas, Noam Rinetzky, Leonid Ryzhyk, Mooly Sagiv, “Simple and Precise Static Analysis of Untrusted Linux Kernel Extensions,” in *ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI)*, 2019. (acceptance rate: 27%).
- [C-16] Lluís Vilanova, Nadav Amit, Yoav Etsion, “Using SMT to Accelerate Nested Virtualization,” in *ACM International Symposium on Computer Architecture (ISCA)*, 2019. (acceptance rate: 17%).
- [C-15] Nadav Amit, Michael Wei, “The Design and Implementation of Hyperupcalls,” in *USENIX Annual Technical Conference (ATC)*, 2018. **Received Best Paper Award.** (acceptance rate: 21%).
- [C-14] Marcos K. Aguilera, Nadav Amit, Irina Calciu, Xavier Deguillard, Jayneel Gandhi, Stanko Novaković, Arun Ramanathan, Pratap Subrahmanyam, Lalith Suresh, Kiran Tati, Rajesh Venkatasubramanian, Michael Wei, “Remote regions: a simple abstraction for remote memory,” in *USENIX Annual Technical Conference (ATC)*, 2018. (acceptance rate: 21%).
- [C-13] Ilya Lesokhin, Haggai Eran, Shachar Raindel, Guy Shapiro, Sagi Grimberg, Liran Liss, Muli Ben-Yehuda, Nadav Amit, Dan Tsafirir, “Page Fault Support for Network Controllers,” in *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, 2017. (acceptance rate: 17%).
- [C-12] Nadav Amit, Michael Wei, “Hypercallbacks: a New Mechanism for Trusted, Secure Introspection,” in *Workshop on System Software for Trusted Execution (SysTEX)*, 2017.
- [C-11] Marcos K Aguilera, Nadav Amit, Irina Calciu, Xavier Deguillard, Jayneel Gandhi, Pratap Subrahmanyam, Lalith Suresh, Kiran Tati, Rajesh Venkatasubramanian, Michael Wei, “Remote memory in the age of fast networks,” in *ACM Symposium on Cloud Computing (SOCC)*, 2017. (acceptance rate: 23%).
- [C-10] Nadav Amit, “Optimizing the TLB Shootdown Algorithm with Page Access Tracking,” in *USENIX Annual Technical Conference (ATC)*, 2017. (acceptance rate: 21%).
- [C-9] Nadav Amit, Michael Wei, Chun-Chung Tu, “Hypercallbacks: Decoupling Policy Decisions and Execution,” in *ACM Workshop on Hot Topics in Operating Systems (HotOS)*, 2017. (acceptance rate: 31%).
- [C-8] Nadav Amit, Dan Tsafirir, Assaf Schuster, Ahmad Ayoub, Eran Shlomo, “Validating Virtual CPUs,” in *ACM Symposium on Operating Systems Principles (SOSP)*, 2015. (acceptance rate: 16%).
- [C-7] Moshe Malka, Nadav Amit, Muli Ben-Yehuda, Dan Tsafirir, “rIOMMU: Efficient IOMMU for I/O Devices that Employ Ring Buffers,” in *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, 2015. (acceptance rate: 17%).
- [C-6] Moshe Malka, Nadav Amit, Dan Tsafirir, “Efficient Intra-Operating System Protection Against Harmful DMAs,” in *USENIX Conference on File and Storage Technologies (FAST)*, 2015. (acceptance rate: 22%).
- [C-5] Nadav Amit, Dan Tsafirir, Assaf Schuster, “VSWAPPER: a Memory Swapper for Virtualized Environments,” in *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, 2014. **Received HiPEAC Award.** (acceptance rate: 20%).

- [C-4] Eitan Rosenfeld, Nadav Amit, Dan Tsafir, “Using Disk Add-ons to Withstand Simultaneous Disk Failures with Fewer Replicas,” in *Workshop on the Interaction amongst Virtualization, Operating Systems and Computer Architecture (WIVOSCA)*, 2013.
- [C-3] Abel Gordon, Nadav Amit^{*}, Nadav Har’El, Muli Ben-Yehuda, Alex Landau, Assaf Schuster, Dan Tsafir, “ELI: Bare-Metal Performance for I/O Virtualization,” in *ACM International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS)*, 2012. **Received ACM SIGARCH/SIGPLAN/SIGOPS ASPLOS Influential Paper Award, the Pat Goldberg Memorial Best Paper Award and HiPEAC Award.** (acceptance rate: 22%).
- [C-2] Nadav Amit, Muli Ben-Yehuda, Dan Tsafir, Assaf Schuster, “vIOMMU: Efficient IOMMU Emulation,” in *USENIX Annual Technical Conference (ATC)*, 2011. (acceptance rate: 15%).
- [C-1] Nadav Amit, Muli Ben-Yehuda, Ben-Ami Yassour, “IOMMU: Strategies for Mitigating the IOTLB Bottleneck,” in *IEEE Workshop on Interaction between Operating System and Computer Architecture (WIOSCA)*, 2010.

JOURNALS

- [J-4] Anil Yelam, Stewart Grant, Nadav Amit, Radhika Niranjana Mysore, Amy Ousterhout, Marcos K. Aguilera, Alex C. Snoeren, “A Developer-Friendly Approach to Application-Integrated Far Memory,” in *login: USENIX Magazine*, 2025.
- [J-3] Marcos K. Aguilera, Emmanuel Amaro, Nadav Amit, Erika Hunhoff, Anil Yelam, Gerd Zellweger, “Memory Disaggregation: Why Now and What Are the Challenges,” in *ACM SIGOPS Operating Systems Review (OSR)*, 2023.
- [J-2] Nadav Amit, Michael Wei, Chun-Chung Tu, “Hypercallbacks,” in *ACM SIGOPS Operating System Review (OSR)*, 2017.
- [J-1] Nadav Amit, Abel Gordon, Nadav Har’El, Muli Ben-Yehuda, Alex Landau, Assaf Schuster, Dan Tsafir, “Bare-metal Performance for Virtual Machines with Exitless Interrupts,” in *Communications of the ACM (CACM)*, 2016. **Invited to the Research Highlights Section..**

PATENTS

- [P-32] Irina Calciu, Muhammad Talha Imran, Nadav Amit. “User-Space Remote Memory Paging”, US2022398199A1 (application). 2022
- [P-31] Michael Wei, Nadav Amit. “Enforcing Code Integrity Using a Trusted Computing Base”, US11500787B2 (granted). 2022
- [P-30] Michael Wei, Nadav Amit, Amy Tai. “Early Acknowledgement of Translation Lookaside Buffer Shootdowns”, US11321242B2 (granted). 2022
- [P-29] Michael Wei, Nadav Amit, Amy Tai. “Consolidating Shared State for Translation Lookaside Buffer Shootdowns”, US11341051B2 (granted). 2022
- [P-28] Michael Wei, Nadav Amit. “Enforcing Code Integrity Using a Trusted Computing Base”, US2021026785A1 (application). 2021
- [P-27] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. “Target Injection Safe Method for Inlining Registration Calls”, US2021011738A1 (application). 2021
- [P-26] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. “Target Injection Safe Method for Inlining Instance-Dependent Calls”, US2021011722A1 (application). 2021

^{*}Both authors contributed equally to this work.

- [P-25] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. "Target Injection Safe Method for Dynamically Inlining Branch Predictions", US2021011728A1 (application). 2021
- [P-24] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. "Target Injection Safe Method for Dynamically Inlining Branch Predictions", US10908912B1 (granted). 2021
- [P-23] Amy Tai, Igor Smolyar, Dan Tsafir, Michael Wei, Nadav Amit. "Software-Controlled Interrupts for I/O Devices", US11068422B1 (granted). 2021
- [P-22] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. "Target Injection Safe Method for Dynamically Inlining Branch Predictions", US10908912B1 (granted). 2021
- [P-21] Michael Wei, Dan Tsafir, Nadav Amit. "Separate Cores to Secure Processes from Speculative Rogue Cache Loads", US10713353B2 (granted). 2020
- [P-20] Michael Wei, Dan Tsafir, Nadav Amit. "Dynamic Binary Translation to Secure Processes from Speculative Rogue Cache Loads", US10824717B2 (granted). 2020
- [P-19] Michael Wei, Dan Tsafir, Nadav Amit. "Compilation-Time Checks to Secure Processes from Speculative Rogue Cache Loads", US10878085B2 (granted). 2020
- [P-18] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. "Target Injection Safe Method for Inlining Registration Calls", US10871974B1 (granted). 2020
- [P-17] Nadav Amit, Frederick Joseph Jacobs, Michael Wei. "Target Injection Safe Method for Inlining Large Call Tables", US10834255B1 (granted). 2020
- [P-16] Michael Wei, Marcos Aguilera, Irina Calciu, Stanko Novakovic, Lalith Suresh, Jayneel Gandhi, Nadav Amit, Pratap Subrahmanyam, Xavier Deguillard, Kiran Tati, Rajesh Venkatasubramanian. "File System Interface for Remote Direct Memory Access", US10706005B2 (granted). 2020
- [P-15] Michael Wei, Dan Tsafir, Nadav Amit. "Dynamic Binary Translation to Secure Processes from Speculative Rogue Cache Loads", US2019243966A1 (application). 2019
- [P-14] Michael Wei, Dan Tsafir, Nadav Amit. "Compilation-Time Checks to Secure Processes from Speculative Rogue Cache Loads", US2019243965A1 (application). 2019
- [P-13] Nadav Amit, Dan Tsafir, Michael Wei. "32-bit Address Space Containment to Secure Processes from Speculative Rogue Cache Loads", US2019243776A1 (application). 2019
- [P-12] Michael Wei, Dan Tsafir, Nadav Amit. "Separate Cores to Secure Processes from Speculative Rogue Cache Loads", US2019243990A1 (application). 2019
- [P-11] Michael Wei, Marcos Aguilera, Irina Calciu, Stanko Novakovic, Lalith Suresh, Jayneel Gandhi, Nadav Amit, Pratap Subrahmanyam, Xavier Deguillard, Kiran Tati, Rajesh Venkatasubramanian. "File System Interface for Remote Direct Memory Access", US2019179794A1 (application). 2019
- [P-10] Nadav Amit, Michael Wei, Cheng Chun Tu. "Safe Execution of Virtual Machine Callbacks in a Hypervisor", US2018321963A1 (application). 2018
- [P-9] Nadav Amit. "Trapless Shadow Page Tables", US2018157596A1 (application). 2018
- [P-8] Assaf Schuster, Nadav Amit, Dan Tsafir. "Memory Swapper for Virtualized Environments", US2018046386A1 (application). 2018
- [P-7] Nadav Amit, Michael Wei, Cheng Chun Tu. "Safe Execution of Virtual Machine Callbacks in a Hypervisor", US11726807B2 (granted). 2018
- [P-6] Nadav Amit. "Trapless Shadow Page Tables", US10114759B2 (granted). 2018

- [P-5] Assaf Schuster, Nadav Amit, Dan Tsafir. "Memory Swapper for Virtualized Environments", US2017060437A1 (application). 2017
- [P-4] Assaf Schuster, Nadav Amit, Dan Tsafir. "Memory Swapper for Virtualized Environments", US9811268B2 (granted, product of [C-5]). 2017
- [P-3] Assaf Schuster, Nadav Amit, Dan Tsafir. "Memory Swapper for Virtualized Environments", WO2015125135A1 (application). 2015
- [P-2] Nadav Amit, Shmuel Ben-Yehuda, Abel Gordon, Nadav Har'el, Alex Landau. "Enhancing Interrupt Handling in a Virtual Environment", US8892802B2 (granted, product of [C-3]). 2014
- [P-1] Nadav Amit, Shmuel Ben-Yehuda, Abel Gordon, Nadav Har'el, Alex Landau. "Enhancing Interrupt Handling in a Virtual Environment", US2013174148A1 (application). 2013