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EECS 768 Virtual Machines 2 Optimization Overview Identify frequently executed hot code regions basic blocks paths – indicate control flow edges – approximation to paths Dynamic profiling count execution frequencies software or hardware implemented Form large translation blocks traces and superblocks Schedule and optimize large blocks

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Improving Startup Performance in Dynamic Binary Translators Surya Tej Nimmakayala EECS, University of Kansas Lawrence, KS USA s387n230@ku.edu Prasad A. Kulkarni EECS, University of Kansas Lawrence, KS USA prasatk@ku.edu Abstract—A Dynamic Binary Translation (DBT) system dy-namically ... is an optimization that can improve the efficiency of ...

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Dynamic Binary Translators (DBT) have applications ranging from program portability, instrumentation, optimizations, and improving software security. To achieve these goals and maintain control over the application's execution, DBTs translate and run the original source/guest programs in a sand-boxed environment.

Exploring Causes of Performance Overhead During Dynamic ...

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Exploring Causes of Performance Overhead During Dynamic ...

Optimization Methods in Finance Gerard Cornuejols Reha Tut unc u Carnegie Mellon University, Pittsburgh, PA 15213 USA January 2006

Optimization Methods in Finance - ku

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): We describe the design and implementation of Dynamo, a software dynamic optimization system that is capable of transparently improving the performance of a native instruction stream as it executes on the processor. The input native instruction stream to Dynamo can be dynamically generated (by a JIT for example), or it ...

CiteSeerX — Dynamo: A Transparent Dynamic Optimization System

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IRC threaded interpretation was first introduced in the 70s to accelerate Forth interpreters. So it's an established technique in computer science, unfortunately it seems to have been eclipsed by dynamic binary translation. Regarding CPU architectures, even basic 8-bit opcodes are often best decoded in a cascade of switches/jump tables.

Threaded Interpretation vs Dynamic Binary Translation ...

Binary Ant Algorithm Carlos M. Fernandes Agostinho C. Rosa Vitorino Ramos LaSEEB, Technical Univ. of Lisbon LaSEEB, Technical Univ. of Lisbon LaSEEB, Technical Univ. of Lisbon Av. Rovisco Pais, 1, TN 6.21, 1049- Av. Rovisco Pais, 1, TN 6.21, 1049- Av. Rovisco Pais, 1, TN 6.21, 1049001, Lisbon, PORTUGAL 001, Lisbon, PORTUGAL 001, Lisbon, PORTUGAL cfernandes@laseeb.org acrosa@isr.ist.utl.pt ...

Binary ant algorithm | DeepDyve

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INDR 363-Syllabus

heuristic-free binary recompilation which lifts dynamic traces of a binary to a compiler-level intermediate represen-tation (IR) and lowers the IR back to a "recovered" binary. This enables BinRec to apply rich program transformations, such as compiler-based optimization passes, on top of the recovered representation. We identify and address a

BinRec: Dynamic Binary Lifting and Recompilation

Existing binary lifting tools are based on static disassembly and thus have to rely on heuristics to disassemble binaries. In this paper, we present BinRec, a new approach to heuristic-free binary recompilation which lifts dynamic traces of a binary to a compiler-level intermediate representation (IR) and lowers the IR back to a "recovered" binary.

BinRec: dynamic binary lifting and recompilation

SoK: All You Ever Wanted to Know About x86/x64 Binary Disassembly but Were Afraid to Ask Chengbin Pang (Stevens Institute of Technology; Nanjing University), Ruotong Yu (Stevens Institute of Technology), Yaohui Chen (Facebook Inc.), Eric Koskinen (Stevens Institute of Technology), Georgios Portokalidis (Stevens Institute of Technology), Bing Mao (Nanjing University), Jun Xu (Stevens Institute ...

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CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): The high performance implementation of Java Virtual Machines (JVM) and Just-In-Time (JIT) compilers is directed toward adaptive compilation optimizations on the basis of online runtime profile in-formation. This paper describes the design and implementation of a dynamic optimization framework in a production-level ...

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