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EECS 768 Virtual
Machines 2

Optimization Overview

Identify frequently
executed hot code

regions basic blocks

paths – indicate control

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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

Dynamic Binary Optimization - KU ITTC

Dynamic binary
translation is a key

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technology that enables portable binary execution [1]-[7], system virtualization [8], program debugging [9], program instrumentation [10]-[12], dynamic optimizations [13]-[15], and code analysis and transformations for secure execution [16], [17]. Execution of the guest binary on the host platform requires

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Improving Startup Performance in Dynamic Binary ... - KU ITTC

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

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dynamically generated (by a JIT for example), or it can come from the execution of a statically compiled native binary.

Dynamo: A Transparent Dynamic Optimization System - KU ITTC

Dynamic Binary
Translators (DBT) have
applications ranging
from program
portability,

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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 sandboxed environment.

Exploring Causes of Performance Overhead During ... - KU ITTC

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- Binary translation
- code discovery, code location -other issues • Control Transfer Optimizations. EECS 768 Virtual Machines 2 Key VM Technologies • Emulation - binary in one ISA is executed in processor supporting a different ISA • Dynamic Optimization - binary is improved for higher performance -may be done as part of ...

Emulation - Outline -
Page 10/26

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CiteSeerX - Document
Details (Isaac Councill,
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

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stream to Dynamo can be dynamically generated (by a JIT for example), or it ...

CiteSeerX — Dynamo: A Transparent Dynamic Optimization System

heuristic-free binary recompilation which lifts dynamic traces of a binary to a compiler-level intermediate representation (IR) and lowers the IR back

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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

Binary optimization
Binary (or Boolean)
quadratic optimization

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is a classical combinatorial optimization problem. In the version we consider, we want to minimize a quadratic function, where the decision variables can only take the values ± 1 . In other words, we are minimizing an (indefinite) quadratic form over the vertices

**MIT Algebraic
techniques and
semidefinite**

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optimization ...

1 Binary Optimization
via Mathematical
Programming with
Equilibrium Constraints
Ganzhao Yuan, Bernard
Ghanem

Abstract—Binary
optimization is a
central problem in
mathematical
optimization and its
applications are
abundant. To solve this
problem, we propose a
new class of
continuous

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optimization

techniques which is
based on Mathematical
Programming with

1 Binary Optimization via Mathematical Programming with

...

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

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Optimization Methods in Finance - ku

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

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translate and run the original source/guest programs in a sandboxed environment.

Exploring Causes of Performance Overhead During Dynamic ...

A dynamic optimizer is a runtime software system that groups a program's instruction sequences into traces, optimizes those traces, stores the optimized traces in a

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softwarebased code cache, and then executes the optimized code in the code cache.

Generational cache management of code traces in dynamic ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): We present Memcheck, a tool that has been implemented with the dynamic binary

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instrumentation
framework Valgrind.
Memcheck detects a
wide range of memory
errors in programs as
they run.

CiteSeerX — Abstract Using Valgrind to detect undefined ...

Kansas Lava Kansas
Lava is a Haskell
library which allows the
specification and
simulation of hardware,
and hardware level

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concerns. Haskell functions written in Kansas Lava can be interpreted as having the semantics of a specific circuit, or compiled into VHDL, for compilation and synthesis using standard HDL tools.

kansas-lava: Kansas Lava is a hardware simulator and VHDL

...

ABOUT . OSPERT 2018
is a satellite workshop

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of the 30th Euromicro Conference on Real-Time Systems (ECRTS 2018), the premier European venue for presenting research into the broad area of real-time and embedded systems. OSPERT is open to all topics related to providing a reliable operating environment for real-time and embedded applications.

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OSPERT 2018 -

University of Kansas

CiteSeerX - Document
Details (Isaac Councill,
Lee Giles, Pradeep
Teregowda): Virtual
machines face
significant performance
challenges beyond
those confronted by
traditional static
optimizers. First,
portable program
representations and
dynamic language
features, such as
dynamic class loading,

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force the deferral of most optimizations until runtime, inducing runtime optimization overhead.

CiteSeerX — A survey of adaptive optimization in virtual ...

1. No dynamic memory allocations
2. Priority ordered wait queues; FIFO order on tie
3. Wait queue: use binary search tree (BST)
4. Wait queue look-up:

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use BST as well 5.

Preemptible

“wake/preempt all”
operations 6. Prevent
“sneak-in” 7.

Transparent
preemption 8. Fine
granular locking $O(\log n)$ time Problem of
preemptible
implementation ...

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ecf8427e.

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