

Title Is Here

Author Name

A thesis submitted for the degree of
YOUR DEGREE NAME
The Australian National University

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Except where otherwise indicated, this thesis is my own original work.

Author Name
11 September 2018

to my xxx, yyy (yyy is the people you want to dedicated this thesis to.)

Acknowledgments

Who do you want to thank?

Abstract

Put your abstract here.

Contents

Acknowledgments	vii
Abstract	ix
1 Introduction	1
1.1 Thesis Statement	1
1.2 Introduction	1
1.3 Thesis Outline	1
2 Background and Related Work	3
2.1 Motivation	3
2.2 Related work	3
2.3 Summary	3
3 Design and Implementation	5
3.1 Smart Design	5
3.2 Summary	5
4 Experimental Methodology	7
4.1 Software platform	7
4.2 Hardware platform	7
5 Results	9
5.1 Direct Cost	9
5.2 Summary	9
6 Conclusion	11
6.1 Future Work	11
Bibliography	13

List of Figures

4.1	Hello world in Java and C. This short caption is centered.	8
5.1	The cost of zero initialization	10

List of Tables

4.1	Processors used in our evaluation. Note that the caption for a table is at the top. Also note that a really long comment that wraps over the line ends up left-justified.	7
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Introduction

1.1 Thesis Statement

I believe A is better than B.

1.2 Introduction

Put your introduction here. You could use `\fix{ABCDEFG.}` to leave your comments, see the box at the left side.

You have to
rewrite your
thesis!!!

1.3 Thesis Outline

How many chapters you have? You may have Chapter 2, Chapter 3, Chapter 4, Chapter 5, and Chapter 6.

Background and Related Work

At the begging of each chapter, please introduce the motivation and high-level picture of the chapter. You also have to introduce sections in the chapter.

Section 2.1 xxxx.

Section 2.2 yyyy.

2.1 Motivation

2.2 Related work

You may reference other papers. For example: Generational garbage collection [Lieberman and Hewitt, 1983; Moon, 1984; Ungar, 1984] is perhaps the single most important advance in garbage collection since the first collectors were developed in the early 1960s. (doi: "doi" should just be the doi part, not the full URL, and it will be made to link to dx.doi.org and resolve. shortname: gives an optional short name for a conference like PLDI '08.)

2.3 Summary

Summary what you discussed in this chapter, and mention the story in next chapter. Readers should roughly understand what your thesis takes about by only reading words at the beginning and the end (Summary) of each chapter.

Design and Implementation

Same as the last chapter, introduce the motivation and the high-level picture to readers, and introduce the sections in this chapter.

3.1 Smart Design

3.2 Summary

Same as the last chapter, summary what you discussed in this chapter and be the bridge to next chapter.

Experimental Methodology

4.1 Software platform

We use Jikes RVM, which we defined in a macro in `macros.tex`. We ran the `avrora` benchmark, which we’re typesetting in sans-serif font to make it clear it’s a name.

You can also use inline code, like a `&& b`. Notice how, unlike when using the `texttt` command, the `icode` macro also scales the x-height of the monospace font correctly.

4.2 Hardware platform

Table 4.1 shows how to include tables and Figure 4.1 shows how to include codes. Notice how we can also use the `cleveref` package to insert references like Table 4.1, by writing just `\cref{tab:machines}`.

We can also refer to specific lines of code in code listings. The bug in Figure 4.1(a) is on line 4. There is also a bug in Figure 4.1(b) on lines 4 to 6. To achieve these references we put `(*@ \label{line:bug} @*)` in the code – the `(*@ @*)` are escape delimiters that allow you to add LaTeX in the (otherwise verbatim) code file.

Table 4.1: Processors used in our evaluation. Note that the caption for a table is at the top. Also note that a really long comment that wraps over the line ends up left-justified.

Architecture	Pentium 4	Atom D510	Sandy Bridge
Model	P4D 820	Atom D510	Core i7-2600
Technology	90nm	45nm	32nm
Clock	2.8GHz	1.66GHz	3.4GHz
Cores \times SMT	2 \times 2	2 \times 2	4 \times 2
L2 Cache	1MB \times 2	512KB \times 2	256KB \times 4
L3 Cache	none	none	8MB
Memory	1GB DDR2-400	2GB DDR2-800	4GB DDR3-1066

```
1  int main(void)
2  {
3      printf("Hello_World\n");
4      int a = *((volatile int *) 0); // uh-oh!
5      return 0;
6  }
```

(a) C

```
1  void main(String[] args)
2  {
3      System.out.println("Hello_World");
4      List<String> a = new ArrayList<String>();
5      a.add("foo");
6      List<Object> b = a; // This is a compile-time error
7  }
```

(b) Java

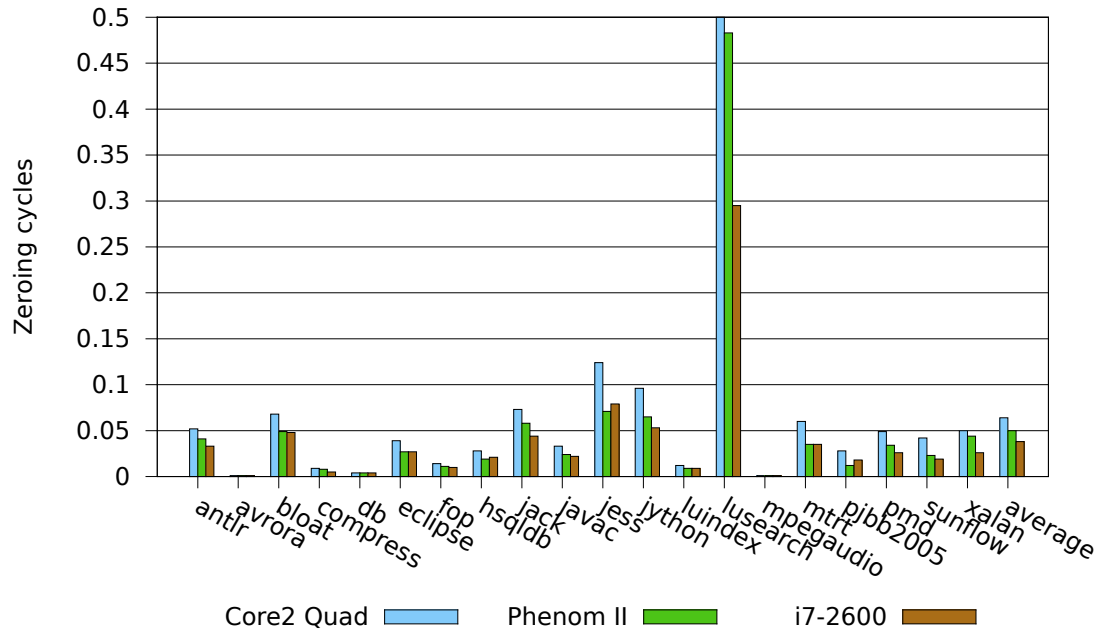
Figure 4.1: Hello world in Java and C. This short caption is centered.

Results

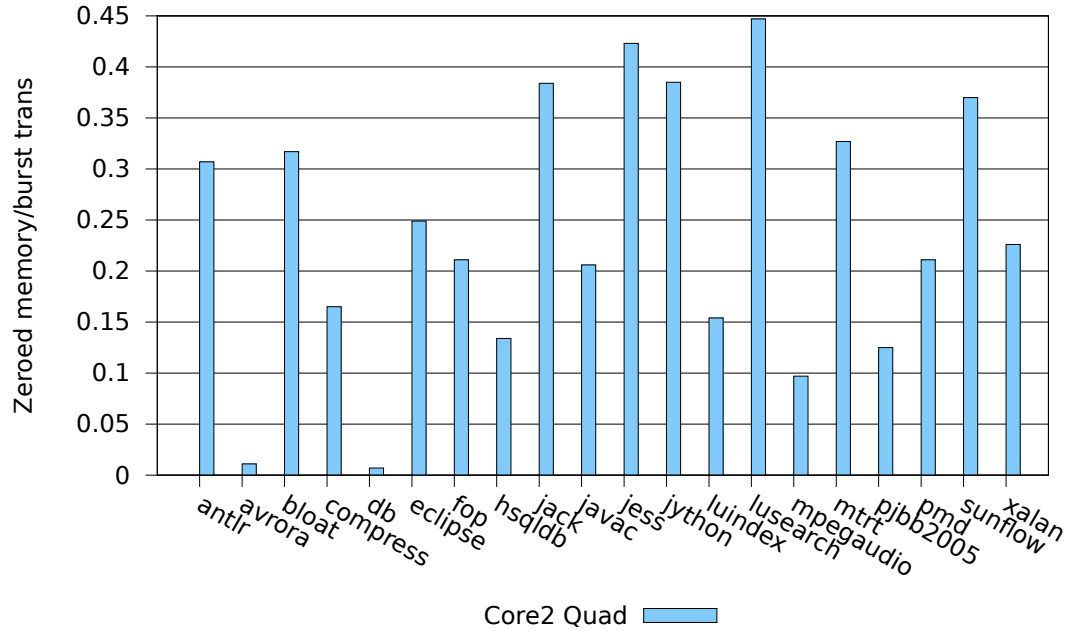
5.1 Direct Cost

Here is the example to show how to include a figure. Figure 5.1 includes two subfigures (Figure 5.1(a), and Figure 5.1(b));

5.2 Summary



(a) Fraction of cycles spent on zeroing



(b) BytesZeroed / BytesBurstTransactionsTransferred

Figure 5.1: The cost of zero initialization

Conclusion

Summary your thesis and discuss what you are going to do in the future in Section 6.1.

6.1 Future Work

Good luck.

Bibliography

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