

AN ODE TO FOO:
HOMAGE TO A GREAT AND WONDERFUL PERSON

by
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The following individuals read and discussed the thesis submitted by student Foo Admirer, and they evaluated the presentation and response to questions during the final oral examination. They found that the student passed the final oral examination.

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The final reading approval of the thesis was granted by Foo The Great, Ph.D., Chair of the Supervisory Committee. The thesis was approved by the Graduate College.

dedicated to foo

ACKNOWLEDGMENTS

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AUTOBIOGRAPHICAL SKETCH

Foo Admirer was born admiring Foo. Foo Admirer has been tinkering with admiration of Foo for a long time. Now it is time to to be blessed by Foo.

ABSTRACT

An *abstract* is a brief summary of the document. A typical abstract provides a brief introduction, enough to provide context for the document, explains the purpose of the thesis or project, and summarizes the major results and conclusions. Keep in mind that a casual observer is likely to judge the content of the document by the abstract and title alone. (There is an old adage: “in a joke, the punchline comes at the end; in a paper [or thesis], it comes in the abstract.”) A single concise paragraph usually suffices for the abstract. If it spills onto a second page, it is probably too long.

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LIST OF ABBREVIATIONS

LOL – Laughing Out Loud

OMG – Oh My God! now is the time for all good men to come to the aid of their country.

LIST OF SYMBOLS

$\sqrt{2}$ square root of 2

λ lambda symbol, normally used in lambda calculus but it sometimes gets used for wavelength as well

CHAPTER 1

INTRODUCTION

1.1 Get ready for Foo

So who is Foo? We need a lot of text in here to see what happens when we hit the bottom of a page with text and try out things like footnotes¹. So here is some extra stuff:²

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¹What's not to like about footnotes, anyway? Brian O'Nolan and George MacDonald Fraser both used them to great effect

²Too many footnotes, however, can be distracting.

[illegible]

Please consult the guide from Graduate College [5] for resolving any style issues that are not addressed by the style files that provided along with this document. The files associated with this style can be found on the website [6].

The file `bsu-ms.cls` contains the formatting directives for the *bsu-ms* style. It is based on the standard L^AT_EX `report` style with 12 point font option.

1. Simply copy `bsu-ms.cls` to the directory containing your \LaTeX document.
That way, \LaTeX will find it, because it looks in current directory by default.
2. The current style file may be installed in some directory available system wide.
(Ask your systems administrator if this is the case). You will have to include that directory in the path \LaTeX uses to search for input files. Under Linux, this is controled by the `TEXINPUTS` environment variable, which can be set in the `.bashrc` file in your home directory. For example

```
TEXINPUTS=./usr/local/texinputs/:/usr/share/texmf//
export TEXINPUTS
```

adds `/usr/local/texinputs`, a possible location for `bsu-ms.cls`, although it will not take effect until you **source** the `.bashrc` file, or log in again.

3. Install the style files in a directory under your accounts and set the `TEXINPUTS` variable accordingly.

The first or third way is recommended, becaue they involve making a local copy of the style file. This assures your document format will not be affected affected by subsequent updates to `bsu-ms.cls` (but gives you the option to copy the updated file if you want).

CHAPTER 2

THE GREATNESS OF FOO

2.1 Previous work

The greatness of Foo The Great derives from her early work as documented in her books [1, 2].

2.2 What are their names?

Please consult the articles by Admirer [3] and Admirer, Smith and Doe [4] for more details. Note that the references are cited by the last names of all authors for three authors or less. For more than three authors, “et al” can be used.

Check the References on page 10 for an example of how to format the references.

2.3 The code of Foo

When showing a program fragment, use the **verbatim** environment. However, when you want to show an algorithm, use either the **tabbing** or **algorithm** environment.

Thesis text is normally “double” spaced. It is customary to single-space literal code. Figure 2.1 shows a sample Java program.

```
import java.awt.Font;
public class Clock extends UpdateApplet {
    public void init() {
        setFont(new Font("TimesRoman",Font.BOLD,24));
        resize(400,100);
    }
    public void paint( java.awt.Graphics g ) {
        g.drawString( new java.util.Date().toString(), 20, 20 );
    }
}
```

Figure 2.1: An Embedded Java Clock. This figure also serves as an example of the inclusion of literal code.

2.4 Other mysteries of Foo

Here is an itemized list of all the mysteries of Foo.

- Mystery 1.
- Mystery 2.
- Mystery 3.
- Mystery 4.

Here is a simple table.

Table 2.1: The Approximate Time of Parallelizing Each Code

| Parallel library/language | WRS Code | OCS Code | ICSAMD Code |
|---------------------------|----------|-------------|-------------|
| PVM | 20 hours | 2 weeks | 1 month |
| HPF | 3 hours | 1 1/2 weeks | 1 month |

CHAPTER 3

THE NOT SO GREAT THINGS ABOUT FOO

3.1 Figures

Check Figure 3.1 for what happens when Foo gets compiled.



Figure 3.1: How to Correct Errors in a Fuzzy Image

3.2 Tables

Table 3.1 shows the formatting and labeling for a table.

Table 3.1: Complexity of Selection and Search in Sorted Matrices

| | Sorted $X + Y$ | Matrix with sorted rows and sorted columns | Matrix with sorted columns |
|-----------------------------------|-----------------|---|-------------------------------|
| | $ X = Y = n$ | $n \times m, m \leq n$ | $n \times n$ |
| $k = \Theta(mn)$ or $\Theta(n^2)$ | $\Theta(n)$ | $\Theta(m \log(2n/m))$ | $\Theta(n)$ |
| | | | $\Theta(m \log n)$ |

Here is another table

Table 3.2: Comparison of Slow PVM Version and the Fast PVM Version

| Parameters | | | Process Number | | | | | | |
|------------|-----|----------------|----------------|------|------|------|-------|-------|-------|
| N | M | | 1 | 5 | 10 | 15 | 20 | 25 | 30 |
| 128 | 100 | Slow PVM(secs) | 2.11 | 3.91 | 5.78 | 8.26 | 10.91 | 14.17 | 19.47 |
| | | Fast PVM(secs) | 2.10 | 1.20 | 1.56 | 1.95 | 2.79 | 3.22 | 4.07 |

Table 3.3: The Speedup of the PVM WRS Code and the HPF WRS Code

| Parameters | | | Process Number | | | | | | |
|------------|-----|--------------|----------------|------|-------|-------|-------|-------|-------|
| N | M | | 1 | 10 | 20 | 30 | 40 | 50 | 60 |
| 128 | 600 | PVM(speedup) | 1 | 5.18 | 7.67 | 8.24 | 6.99 | 5.55 | 4.49 |
| | | HPF(speedup) | 1 | 8.40 | 12.15 | 13.98 | 14.73 | 13.52 | 13.21 |
| 256 | 300 | PVM(speedup) | 1 | 6.70 | 7.74 | 6.47 | 5.19 | 3.72 | 2.94 |
| | | HPF(speedup) | 0.99 | 7.24 | 9.65 | 10.58 | 10 | 9.48 | 8.73 |
| 512 | 150 | PVM(speedup) | 1 | 6.75 | 10.64 | 12.14 | 13.35 | 13.87 | 13.98 |
| | | HPF(speedup) | 0.98 | 6.72 | 9.88 | 11.55 | 12.86 | 13.38 | 13.83 |
| 1024 | 75 | PVM(speedup) | 1 | 2.13 | 2.30 | 2.36 | 2.38 | 2.39 | 2.40 |
| | | HPF(speedup) | 0.95 | 1.94 | 2.06 | 2.10 | 2.13 | 2.13 | 2.14 |

CHAPTER 4

CONCLUSIONS

4.1 What have we done so far?

4.2 Future directions

The coming revolution in foo-lets offers many opportunities for further research.

REFERENCES

- [1] Foo The Great. *The World According to Foo*. NoFoo Press, Fooland, 1922.
- [2] Foo The Great. *The World Without Foo*. NoFoo Press, Fooland, 1952.
- [3] Foo Admirer. “An Analysis of Fooism”. *Journal of the Advanced Computing Foo*, vol. 21(2), pp. 272–287.
- [4] Foo Admirer, Jim Smith and Jane Doe. “Everyday Fooism.” *Journal of the Advanced Computing Foo*, vol. 23(4), pp. 272–287.
- [5] Graduate College. *Standards for Preparation of Dissertations, Theses & Projects*. Fourth edition, August 2001.
- [6] Amit Jain. *Style files for M.S. Thesis/Project*.
<http://cs.boisestate.edu/teaching/teaching.html#stylefiles>

APPENDIX A

TIMING MEASUREMENTS

Here is Appendix A. See Appendix [B](#) for the experimental setup.

APPENDIX B

EXPERIMENTAL SETUP

Here is Appendix **B**.

