THE THESIS TITLE

THE AUTHOR

UNIVERSITI TEKNOLOGI MALAYSIA

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THE THESIS TITLE

THE AUTHOR

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Faculty of Whatever
Universiti Teknologi Malaysia

OCTOBER 2008

I declare that this project report entitled *"The Thesis Title"* is the result of my own research except as cited in the references. The project report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

Signature	:	
Name	:	The Author
Date	:	November 30, 2009

To my family, especially my wife for the nice cuppas of latte and espressos every now and then. Forget bout putting you steady. You may marry someone else. Just a waste of space.

ACKNOWLEDGEMENT

Praise to the Almighty...

Thank supervisor(s)...

Thank sponsor...

Appreciate family...

Thank friends...

Author, Place

ABSTRACT

The abstract should be brief, written in one paragraph and not exceed 300 words. Context... First contribution... Second contribution... Third contribution... Fourth contribution... Significance...**Take note:** By default the spacing is one-half. But is the abstract is more than a page long, change to single spacing. `\singlespacing` after `\begin{abstract}`

ABSTRAK

Abstract in Malay.Please check whatever relevant terms with DBP. Follow this URL http://sbmb.dbp.gov.my/knb/cariankata/dbp_nb_carian_kata_istilah.aspx

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ABBREVIATIONS

AJAX	–	Asynchronous Javascript and XML
CTAN	–	the Comprehensive TeX Archive Network
AVLS	–	A very long long long long long long long long long long long long story
PC	–	Personal Computer
TV	–	Television
XML	–	Extensible Markup Language

You can insert an abbreviation listed here, e.g. Asynchronous Javascript and XML (AJAX) more than once, e.g. AJAX into normal text.

LIST OF SYMBOLS

λ	–	Wavelength
α	–	Second symbol description
β	–	Third symbol description
γ	–	Fourth symbol description

You can insert a symbol listed here, e.g. α into normal text.

LIST OF APPENDICES

CHAPTER 1

INTRODUCTION

Introduction to the thesis

1.1 Context

Whatever you want to mention on context. Not too much, as two or three paragraphs will do.

1.2 Problem Statement

The general problem in the context that require extended works presented in this thesis. Better if each problem is explained in a paragraph. Do citation as [**?**]. You can just cite multiple citations such as [**?**, **?**, **?**]. Cite like so [?].

1.3 Contributions

Summary of contributions...

Contribution 1...

Contribution 2...

Contribution 3...

Contribution 4...

1.4 Dissertation Organization

This dissertation is organized as follows.

Chapter 2 reviews related works. Critical, critical review please.

Chapter 3 proposes anything. Say the good things about this contribution 1.

Chapter 4 proposes anything. Say the good things about this contribution 2.

Chapter 5 proposes anything. Say the good things about this contribution 3.

Chapter 6 proposes anything. Say the good things about this contribution 4.

Chapter 7 summarizes the thesis, re-stating the contributions, and suggest directions for future research.

CHAPTER 2

CONTEXT, PROBLEMS, AND RELATED WORKS

This chapter reviews related works to contexts and problems. Give chapter organization if necessary (or its too long)

2.1 Whatever

Whatever technique you need here...

(a) Item 1

(b) Item 2 [?].

$$y_i = \sum_{j=1}^{N} i \frac{z^3}{y+z} \tag{2.1}$$

$$\begin{aligned} \mathbf{x} &= \{x_1, x_2, \cdots, x_m\} && \text{(2.2a)} \\ &\approx \{\mathbf{x}_1, \mathbf{x}_2, \cdots, \mathbf{x}_n\} && \text{(2.2b)} \end{aligned}$$

Equation (2.2) represents whatever...

This is how you should call a figure, shown here as Figure A.1

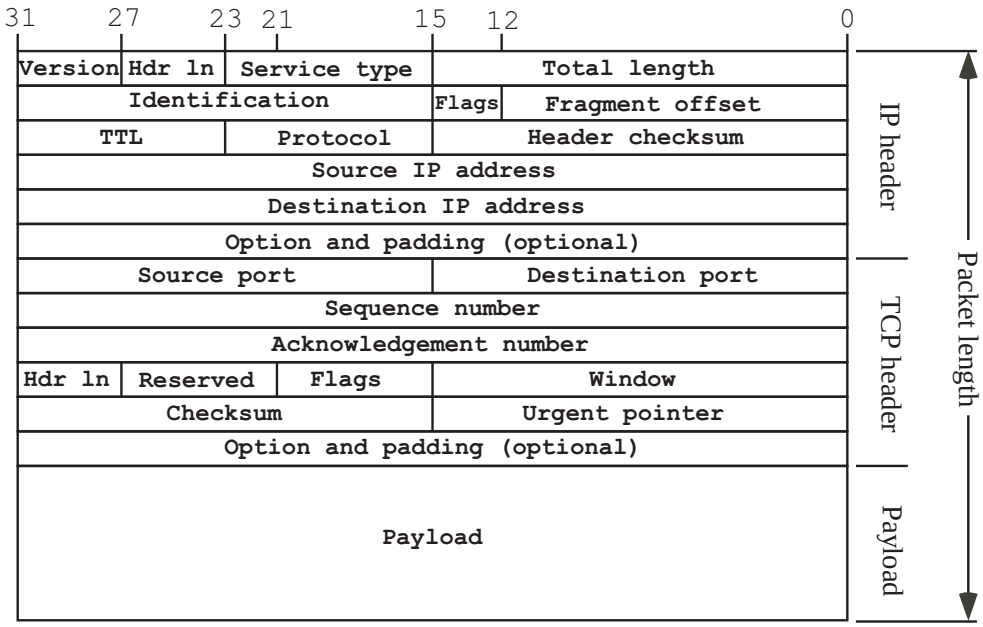

Figure 2.1: Structure of TCP/IP headers used for host routing and byte stream reconstruction.

2.2 Motivations for Extended Research

Whatever you can conclude...

Introduces next chapter if appropriate.

CHAPTER 3

CONTRIBUTION 1

This chapter is about contribution 1. Give chapter organization if necessary (or its too long)

3.1 Related Work

Just work you need to compare with your proposal

3.2 Your Proposal

Whatever technique you need here...

This is when you need a table, shown here in Table 3.1

Table 3.1: Long caption.

Class	Values				
	500	1000	2000	3000	4000
Class 1	99.9%	87.0%	64.0%	28.2%	10.2%
Class 2	100.0%	97.1%	65.6%	44.6%	17.4%

3.3 Chapter Summary

What's so good with your proposal.

Introduces next chapter if appropriate.

CHAPTER 4

CONTRIBUTION 2

This chapter is about contribution 1. Give chapter organization if necessary (or its too long)

4.1 Related Work

Just work you need to compare with your proposal

4.2 My Work

This is how my results look like, as shown in Figure 4.1. However, the trend for the one in Figure 4.1(a) differs from Figure 4.1(b) whatever...

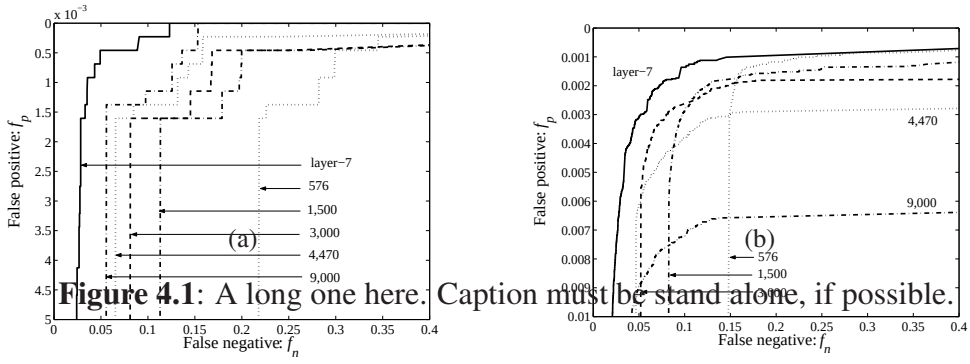

Figure 4.1: A long one here. Caption must be stand alone, if possible.

4.3 Chapter Summary

What's so good with your proposal.

Introduces next chapter if appropriate.

CHAPTER 5

CONTRIBUTION 3

This chapter is about contribution 1. Give chapter organization if necessary (or its too long)

5.1 Related Work

Just work you need to compare with your proposal

5.2 Mathematical Formulae

TEX is good at typesetting mathematical formulas like $\sum x - 3y = 7$ or $y_{i+1} = x_i^{2n} - \sqrt{5}x_i^n + 1$.

Mathematical formulas may also displayed as such

$$x_{i+1} \;=\; N^{i+1}(x_0) \;=\; N(x_i) \;=\; x_i - \frac{f(x_i)}{f(x_i)}$$

$$a^n + b^n \neq c^n \quad \text{for } n > 2 \text{ (see proof in margin)} \tag{5.1}$$

$$\begin{aligned} \int_0^\infty e^{-x^2}\,dx &= e^{-\left(\int_0^\infty x\,dx\right)^2} && (5.2)\\ &= e^{-\infty} \\ &= 0.38 - 1.7i && (5.3) \end{aligned}$$

$$\frac{\partial u}{\partial t} + \nabla^4 u + \nabla^2 u + \frac{1}{2}\left|\nabla u\right|^2 = c^2$$

$$\Psi = \frac{d}{d\phi}\begin{bmatrix} \phi_2 \\ \phi_3 \\ 1 - \phi_2 - \phi_1^2/2 \end{bmatrix} \qquad \Theta = \begin{bmatrix} 0 & 1 & 0 \\ (-\theta_1\psi_1 - \psi_2) & 0 & \psi_3 \\ -\phi_1 & -1 & 0 \end{bmatrix} \tag{5.4}$$

$$\begin{aligned} \sum_{k=1}^{n} \frac{1}{k} \approx \ln k + \gamma &= (\ln 10)(\log_{10} k) + \gamma \\ &\approx 2.3026 \log_{10} k + 0.57772 \end{aligned}$$

5.3 Chapter Summary

What's so good with your proposal.

Introduces next chapter if appropriate.

CHAPTER 6

CONTRIBUTION 4

This chapter is about contribution 4. Give chapter organization if necessary (or its too long)

6.1 Related Work

Just work you need to compare with your proposal

6.2 Chapter Summary

What's so good with your proposal.

CHAPTER 7

CONCLUSIONS

Say some intro here...

7.1 Contributions

The contribution of this research work can be summarized as follow.

7.1.1 Contribution 1

For our first contribution,... This work has been published in brief in [?] and is accepted for publication in full in [?].

7.1.2 Contribution 2

For our second contribution, ...

7.1.3 Contribution 3

For our third contribution, ...

7.1.4 Contribution 4

For our fourth contribution, ...

7.2 Directions for Future Work

Put disclaimer. This research work can be extended along the following research directions.

7.2.1 Future Work 1

Whatever..

7.2.2 Future Work 2

Whatever..

7.3 Summary

This section summarizes the importance for your work.

APPENDIX A

APPENDIX A TITLE

This is a sample Appendix illustrating how source code code be added in an appendix.

A.1 Standard Hello World (hello_world.c)

```
#include <stdio.h>

int main(void) {
   printf ("Hello World\n");

   return 0;
} /* main */
```

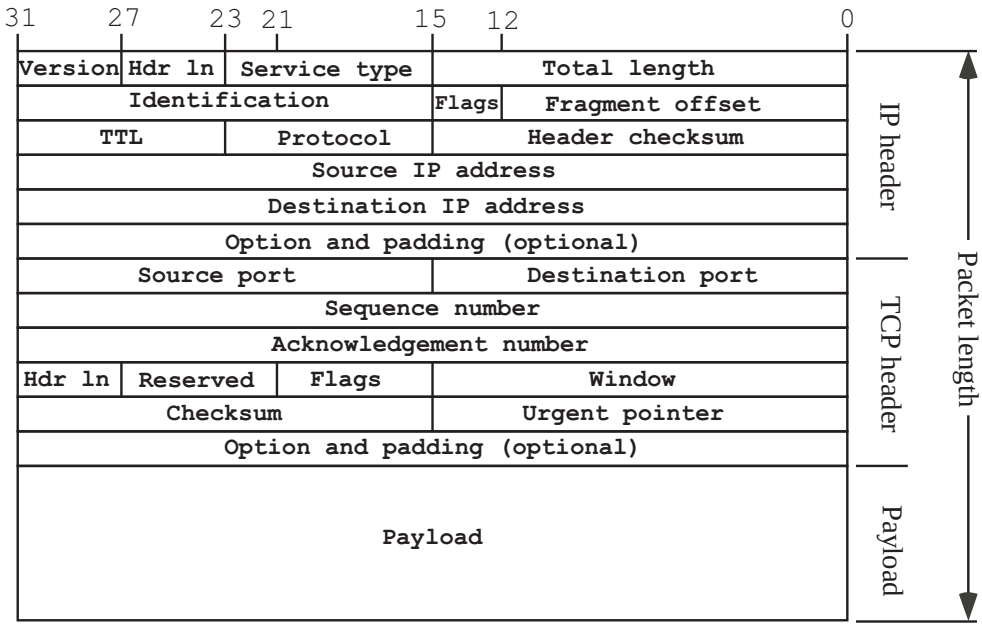

Figure A.1: Structure of TCP/IP headers used for host routing and byte stream reconstruction.

APPENDIX B

ANOTHER WAY INCLUDING LISTING FILE

This is a sample Appendix illustrating how source code code be added in an appendix.

B.1 Standard Hello World (hello_world.c)

Listing B.1: *point_doubling* SW MoC

```
void point_doubling (PRIME_DOMAIN_PARAMETER
    domain, POINT Q, POINT* R) {
    int i = 0;

    FIELDP two   = {0x00000000, ..., 0x00000002};
    FIELDP three = {0x00000000, ..., 0x00000003};
    FIELDP s={0}, temp1={0}, temp2 = {0},
        temp3 = {0}, temp4 = {0};

    //s = (3*Qx^2 + a) / (2Qy) mod p
    mod_mul(Q.x, Q.x, domain.p, &temp1);
    mod_mul(three, temp1, domain.p, &temp2);
    mod_add(temp2, domain.a, domain.p, &temp3);
    mod_mul(two, Q.y, domain.p, &temp4);
    mod_div(temp3, temp4, domain.p, &s);

    //Rx = s^2 - 2Qx mod p
    mod_mul(s, s, domain.p, &temp1);
    mod_mul(two, Q.x, domain.p, &temp2);
    mod_sub(temp1, temp2, domain.p, &R->x);

    //Ry = -Qy + s(Qx - Rx) mod p
    mod_sub(Q.x, R->x, domain.p, &temp1);
    mod_mul(s, temp1, domain.p, &temp2);
    mod_sub(temp2, Q.y, domain.p, &R->y);
}
```

B.2 Another way

```
% nicholbif.m - this MATLAB file simulates the
% 2-species Nicholson Bailey difference equation
% modified to include host density dependence:
%       x(n+1) = x(n)*exp(r*(1-x(n)/K)-a*y(n))
%       y(n+1) = x(n)*(1-exp(-a*y(n)))
% and carries out a bifurcation analysis by varying r.
% 200 different values of a are used between the
% ranges rmin and rmax set by the user. A bifurcation
% plot is drawn by showing the last 250 points of
% a sequence of 1000 simulated points for each
% value of r. The initial condition is fixed at x0=11, y0=1
a=0.2;        %a=search efficiency of parasitoid
K=22.47;      %K=host carrying capacity
rmin=0.0;  %r=host repro rate
rmax=3;
x0=11;   %initial population x0 of host
y0=1;   %initial population y0 of parasitoid
n=1000;
jmax=200;
t=zeros(jmax+1,1);
z=zeros(jmax+1,250);
del=(rmax-rmin)/jmax;
for j=1:jmax+1
x=zeros(n+1,1);
y=zeros(n+1,1);
x(1)=x0;
y(1)=y0;
t(j)=(j-1)*del+rmin;
r=t(j);
for i=1:n
x(i+1)=x(i)*exp(r*(1-x(i)/K)-a*y(i));
y(i+1)=x(i)*(1-exp(-a*y(i)));
if (i>750)
    z(j,i-750)=x(i+1);
    end
end
end
plot(t,z,'r.','MarkerSize',4)
xlabel('r','FontSize',10), ylabel('Host population','FontSize',10)
title('Bifurcation diagram for the Nicholson-Bailey model')
```

Listing B.2: A Matlab code