Simon William Moore

Example Project Format

Part II Computer Science

X College

1995

Pro forma

Name	:	**Simon William Moore**
College	:	**X College**
Project Title	:	**Example Project Format**
Examination	:	**Part II Computer Science, 1995**
Word Count	:	**282**
Project Originator	:	Dr S. W. Moore
Supervisor	:	Dr S. W. Moore

Original Aims of the Project

To simplify the printing and binding of Computer Science Projects.

Work Completed

This document.

Special Difficulties

None.

Contents

1 Preparing a LaTeX 2ε document **1**
1.1 Overview of the files 1
1.2 Building the document 1
1.3 Adding graphics 2
1.4 Counting words 2
1.5 Printing and binding 2
1.6 Further information 3

2 The source **5**
2.1 The glue — join.tex 5
2.2 title.tex 6
2.3 proforma.tex 7
2.4 chapter1.tex 7
2.5 chapter2.tex 9
2.6 refs.bib 9

List of Figures

1.1 Example figure 2

Chapter 1

Preparing a LaTeX 2$_\varepsilon$ document

1.1 Overview of the files

This document consists of the following files:

- `join.tex` — to glue the whole thing together
- `title.tex` and `proforma.tex` — the initial pages
- `chapter1.tex` — this chapter
- `chapter2.tex` — chapter 2 which presents the source for this document
- `refs.bib` — the bibliography

1.2 Building the document

This document was produced using LaTeX 2$_\varepsilon$ which is based upon LaTeX[1]. To build the document you first need to generate `join.aux` which, amongst other things, contains the references used. To do this type:

```
latex join
```

Then the bibliography can be generated from `refs.bib` using:

```
bibtex join
```

Finally, to ensure all the page numbering is correct run `latex` on `join.tex` until the `.aux` files do not change. This usually takes 2 more runs.

1.3 Adding graphics

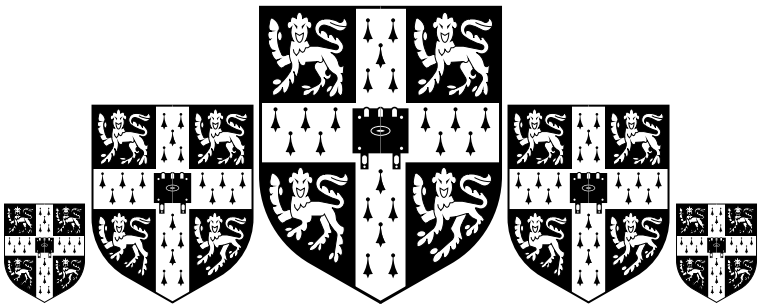

Figure 1.1: Example figure

See figure 1.1 for an example of a floating figure.

1.4 Counting words

An approximate word count may be attained using:

```
detex join.tex | wc
```

1.5 Printing and binding

To convert the file to postscript use `dvips`. You may submit postscript to the book shop on a 1.44 Mbyte 3.5" DOS format floppy. They can also accept postscript compressed with `zip` but not `gnuzip` nor `compress`. However, it is faster for them if the file is not compressed.

Things to note:

- Ensure that there are the correct number of blank pages inserted so that each double sided page has a front and a back. So, for example, the title page must be followed by an absolutely blank page (not even a page number).
- Submitted postscript introduces more potential problems. Therefore you must either allow two iterations of the binding process (once in a digital form, falling back to a second, paper, submission if necessary) or submit both paper and electronic versions.

1.6 Further information

See the Computer Lab's world wide web pages at URL:

`http://www.cl.cam.ac.uk/TeXdoc/TeXdocs.html`

Chapter 2

The source

2.1 The glue — join.tex

```
\documentclass[12pt,twoside]{report}

\usepackage{a4}
\usepackage{verbatim}
\usepackage{times}                      % use times
\renewcommand{\ttdefault}{cmtt}         % but don't use courier for typewriter

\usepackage{graphics} % to allow postscript inclusions

\raggedbottom % try to avoid widows and orphans
\sloppy
\clubpenalty1000%
\widowpenalty1000%

\addtolength{\oddsidemargin}{6mm} % adjust margins
\addtolength{\evensidemargin}{-8mm}

\renewcommand{\baselinestretch}{1.1} % adjust line spacing to make
     % more readable


\begin{document}

\bibliographystyle{plain}


%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Title


\pagestyle{empty}

\include{title}

\cleardoublepage

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
% Proforma, table of contents and list of figures

\setcounter{page}{1}
\pagenumbering{roman}
\pagestyle{plain}

\include{proforma}

\cleardoublepage

\tableofcontents

\listoffigures

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% now for the chapters

\cleardoublepage % just to make sure before the page numbering
% is changed

\setcounter{page}{1}
\pagenumbering{arabic}
\pagestyle{headings}

\include{chapter1}
\cleardoublepage

\include{chapter2}
\cleardoublepage

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% the bibliography

\bibliography{refs}
\cleardoublepage

\end{document}
```

2.2 title.tex

```
% title.tex
\hfill{\LARGE \bf Simon William Moore}

\vspace*{60mm}
\begin{center}
\Huge
{\bf Example Project Format} \\
\vspace*{5mm}
Part II Computer Science \\
\vspace*{5mm}
X College \\
\vspace*{5mm}
1995
\end{center}
```

2.3 proforma.tex

```
\chapter*{Pro forma}

{\large
\begin{tabular}{@{}l@{ : }l}
Name & \bf Simon William Moore \\
College & \bf X College \\
Project Title & \bf Example Project Format \\
Examination & \bf Part II Computer Science, 1995 \\
Word Count & \bf 282 \\
Project Originator & Dr S.\ W.\ Moore \\
Supervisor & Dr S.\ W.\ Moore \\
\end{tabular}
}


\section*{Original Aims of the Project}

To simplify the printing and binding of Computer Science Projects.

\section*{Work Completed}

This document.

\section*{Special Difficulties}

None.
```

2.4 chapter1.tex

```
\chapter{Preparing a \LaTeXe\ document}

\section{Overview of the files}

This document consists of the following files:

\begin{itemize}
\item {\tt join.tex} --- to glue the whole thing together
\item {\tt title.tex} and {\tt proforma.tex} --- the initial pages
\item {\tt chapter1.tex} --- this chapter
\item {\tt chapter2.tex} --- chapter~2 which presents the source for
this document
\item {\tt refs.bib} --- the bibliography
\end{itemize}

\section{Building the document}

This document was produced using \LaTeXe which is based upon
\LaTeX\cite{Lamport86}.  To build the document you first need to
generate {\tt join.aux} which, amongst other things, contains the
references used.  To do this type:

{\tt latex join}

\noindent
```

```
Then the bibliography can be generated from {\tt refs.bib} using:

{\tt bibtex join}

\noindent
Finally, to ensure all the page numbering is correct run {\tt latex}
on {\tt join.tex} until the {\tt .aux} files do not change.  This
usually takes 2 more runs.


\pagebreak % force LaTeX to do things my way :-)

\section{Adding graphics}

\begin{figure}[tbh]

\begin{center}
\scalebox{0.5}{\includegraphics{cuarms.eps}}
\scalebox{1}{\includegraphics{cuarms.eps}}
\scalebox{1.5}{\includegraphics{cuarms.eps}}
\scalebox{1}{\includegraphics{cuarms.eps}}
\scalebox{0.5}{\includegraphics{cuarms.eps}}
\end{center}

\caption{\label{egfig}Example figure}
\end{figure}

See figure~\ref{egfig} for an example of a floating figure.



\section{Counting words}

An approximate word count may be attained using:

{\tt detex join.tex | wc}


\section{Printing and binding}

To convert the file to postscript use {\tt dvips}.  You may submit
postscript to the book shop on a 1.44~Mbyte 3.5'' DOS format floppy.
They can also accept postscript compressed with {\tt zip} but not {\tt
gnuzip} nor {\tt compress}.  However, it is faster for them if the
file is not compressed.

Things to note:

\begin{itemize}
\item Ensure that there are the correct number of blank pages inserted
so that each double sided page has a front and a back.  So, for
example, the title page must be followed by an absolutely blank page
(not even a page number).

\item Submitted postscript introduces more potential problems.
Therefore you must either allow two iterations of the binding process
(once in a digital form, falling back to a second, paper, submission if
necessary) or submit both paper and electronic versions.
\end{itemize}
```

```
\section{Further information}

See the Computer Lab's world wide web pages at URL:

{\tt http://www.cl.cam.ac.uk/TeXdoc/TeXdocs.html}
```

2.5 chapter2.tex

```
\chapter{The source}

\section{The glue --- join.tex}

{\scriptsize\verbatiminput{join.tex}}


\section{title.tex}

{\scriptsize\verbatiminput{title.tex}}


\section{proforma.tex}

{\scriptsize\verbatiminput{proforma.tex}}


\section{chapter1.tex}

{\scriptsize\verbatiminput{chapter1.tex}}


\section{chapter2.tex}

{\scriptsize\verbatiminput{chapter2.tex}}


\section{refs.bib}

{\scriptsize\verbatiminput{refs.bib}}
```

2.6 refs.bib

```
@BOOK{Lamport86,
TITLE = "{LaTeX} --- a document preparation system --- user's guide
and reference manual",
AUTHOR = "Lamport, L.",
PUBLISHER = "Addison-Wesley",
YEAR = "1986"}
```

Bibliography

[1] L. Lamport. *LaTeX — a document preparation system — user's guide and reference manual*. Addison-Wesley, 1986.