Chapter 1

Template

1.1 How to compile a `.tex` file to a `.pdf` file

1.1.1 Tools

To process the files you (may) need:

- `pdflatex` (for example from `tetex` package $\geq$ `0.9-6`, which you can get from Red Hat 5.2);

- `acroread` (a PDF viewer, available from http://www.adobe.com/);

- `ghostscript` $\geq$ `5.10` (for example from Red Hat Contrib) and `ghostview` or `gv` (from RedHat Linux);

- `efax` package could be useful, if you plan to fax documents.

1.1.2 How to use the tools

Follow these steps:

1. put all source `.tex` files in one directory, then chdir to the directory (or put some of them in the LaTeX search path — if you know how to do this);

2. run "`pdflatex file.tex`" on the main file of the document three times (three — to prepare valid table of contents);

3. to see or print the result use `acroread` (unfortunately some versions of `acroread` may produce PostScript which is too complex), or

4. run `ghostscript`: "`gv file.pdf`" to display or:
   "gs -dNOPAUSE -sDEVICE=pswrite -q -dBATCH -sOutputFile=file.ps file.pdf"
   to produce a PostScript file;

5. run "`fax send phone-number file.ps`" as root to send a fax, or — if you
   know how to do this — modify the `fax` script to be able to fax `.pdf` files directly
   (you have to insert "`| %PDF*`" somewhere. . .).

1.2 How to write a document

1.2.1 The main document

Choose the name of the document, say `document`. Copy `template.tex` to
`document.tex`, then edit it, change the title, the authors and set proper in-
clude(s) for all the chapters.

1.2.2 Chapters

Each chapter should be included in the main document as a separate file. You can
choose any name for the file, but we suggest adding a suffix to the name of the
main file. For our example we use the file name `document_chapter1.tex`.

First, copy `template_chapter.tex` to `document_chapter1.tex`
and add the line

```
\include{document_chapter1}
```

in the `document.tex`, then edit `document_chapter1.tex`, change the
chapter title and edit the body of the chapter appropriately.

1.2.3 Spell-checking

Do use a spell-checker, please!

You may also want to check grammar, style and so on. Actually you should
do it (if you have enough spare time). But you *must* check spelling!

You can use the `ispell` package for this, from within `emacs`, or from the
command line:

```
ispell -t document_chapter1.tex
```